

International Paediatric and Congenital Cardiac Code - EPCC derived version - The Long List Version 3.1
with ICD-9 & ICD-10 crossmapping and crossmap to EPCC Short List
1st May 2012

Section	Description	go to	IPCCC	ICD-9	ICD-9 additional	ICD-10	ICD-10 additional	Short List Code	Short List term
1	Table of contents								
	Broad generic terms for congenital heart disease	to 2	not relevant						
	Generic pathological cardiac and vascular terms	to 3	not relevant						
	Congenital heart defects in sequential segmental order	to 5	not relevant						
	Hereditary, fetal, neonatal & noncardiac abnormalities associated with heart disease	to 500	not relevant						
	Cardiothoracic acquired abnormalities and diseases	to 600	not relevant						
	Signs, Symptoms and Investigations of Heart Disease	to 740	not relevant						
	Rhythm and conduction disturbances	to 800	not relevant						
	Preprocedural Risk Factors and Quoted Procedural Risks	to 930	not relevant						
	Qualifiers - diagnostic and site specific	to 950	not relevant						
	Site of cardiac or vascular lesion, injury, tumour or procedure - qualifiers	to 3205	not relevant						
	Cardiothoracic operations and interventions	to 1000	not relevant						
	Postoperative and cardiac support procedures & therapies	to 1565	not relevant						
	Chest wall, pleural, tracheal, bronchial & lung procedures	to 4200	not relevant						
	Transluminal interventional & diagnostic catheter procedures and techniques	to 1400	not relevant						
	Qualifiers - interventional, materials and sizes	to 1600	not relevant						
	Medical therapy for cardiovascular diseases	to 1760	not relevant						
	Postprocedural complications and sequelae	to 1800	not relevant						
	Normal terms: structure and function	to 3000	not relevant						
	General site specific qualifiers	to 3200	not relevant						
	Lung and non-cardiac thoracic disease	to 4000	not relevant						
	Thoracic, pleural, tracheal, bronchial, lung & gastro-oesophageal procedures	to 4200	not relevant						
2	Broad generic terms for congenital heart disease								
	Congenital cardiovascular abnormality,	to 1	01.01.34	746.9		Q24.9		01.01.39	Cardiac abnormality,
	Congenital heart disease,	to 1	01.01.30	746.9		Q24.9		01.01.39	Cardiac abnormality,
	Acyanotic congenital heart disease,	to 1	01.01.31	746.9		Q24.9		01.01.39	Cardiac abnormality,
	Cyanotic congenital heart disease,	to 1	01.01.32	746.9		Q24.9		01.01.39	Cardiac abnormality,
	Complex heart abnormality,	to 1	01.01.21	746.9		Q20.9		01.01.39	Cardiac abnormality,
	Shone's syndrome: left heart obstruction at multiple sites,	to 1	01.01.33	746.9		Q20.9		01.01.33	Shone's syndrome: left heart obstruction at multiple sites,
3	Generic pathological cardiac and vascular terms								
	General pathological & physiological valve terms	to 4	not relevant						
	Isomerism,	to 1	01.03.12						
	Superior caval vein (superior caval vein (SVC)) occlusion,	to 1	04.01.21	747.4		Q26.9		04.01.00	Superior caval vein (SVC) abnormality,
	Superior caval vein (SVC) stenosis,	to 960	04.01.22	747.4		Q26.9		04.01.00	Superior caval vein (SVC) abnormality,
	Inferior caval vein (IVC) occlusion,	to 1	04.03.21	747.4		Q26.9		04.03.00	Inferior caval vein (IVC) abnormality,
	Inferior caval vein (IVC) stenosis,	to 960	04.03.22	747.4		Q26.9		04.03.00	Inferior caval vein (IVC) abnormality,
	Aneurysm,	to 976	01.01.61	442.9		I72.9		01.01.61	Aneurysm,
	Heart aneurysm,	to 976	01.01.62	414.1		E5.3		01.01.61	Aneurysm,
	Heart wall aneurysm,	to 976	01.01.63	414.1		E5.3		01.01.61	Aneurysm,
	Ventricular aneurysm,	to 976	01.01.64	414.1		E5.3		01.01.61	Aneurysm,
	Right ventricular aneurysm,	to 976	07.01.14	414.1		E5.3		07.01.14	Right ventricular aneurysm,
	Left ventricular aneurysm,	to 976	07.06.13	414.1		E5.3		07.06.13	Left ventricular aneurysm,
	Right ventricular diverticulum,	to 976	07.01.15	746.8		Q24.8		07.01.00	Right ventricular abnormality,
	Left ventricular diverticulum,	to 976	07.06.18	746.8		Q24.8		07.06.00	Left ventricular abnormality,
	Pulmonary arterial aneurysm,	to 976	09.10.44	747.3		Q25.7		09.10.44	Pulmonary arterial aneurysm,
	Coronary arterial aneurysm(s),	to 464	09.46.01	746.8		Q24.5		09.46.01	Coronary arterial aneurysm(s),
	Coronary arterial stenosis,	to 467	09.46.90	414.0		E5.1		09.46.00	Coronary arterial abnormality,
	Cardiac abnormality,	to 1	01.01.39	746.8		Q24.8		01.01.39	Cardiac abnormality,
	Vascular abnormality,	to 1	01.01.60	459.9		I89		01.01.60	Vascular abnormality,
	Embolus,	to 1	01.01.65	444.9		I74.9		01.01.60	Vascular abnormality,
4	General pathological & physiological valve terms								
	Functional valvar regurgitation (trace)	to 785	not relevant						
	Valvar regurgitation,	to 963	06.00.31	746.8		Q24.8		01.01.39	Cardiac abnormality,
	Valvar stenosis,	to 963	06.00.32	746.8		Q24.8		01.01.39	Cardiac abnormality,
	Pulmonary vein stenosis,	to 94	04.08.91	747.4		Q26.8		04.08.91	Pulmonary vein stenosis,
	Tricuspid valvar abnormality,	to 5	06.01.00	746.9		Q22.9		06.01.00	Tricuspid valvar abnormality,
	Tricuspid regurgitation,	to 963	06.01.91	746.8		Q22.8		06.01.91	Tricuspid regurgitation,
	Tricuspid stenosis,	to 960	06.01.92	746.1		Q22.4		06.01.92	Tricuspid stenosis,
	Tricuspid valvar stenosis: functional,	to 960	06.01.93	746.1		Q22.4		06.01.92	Tricuspid stenosis,
	Tricuspid subvalvar apparatus abnormality,	to 1	06.01.12	746.9		Q22.8		06.01.00	Tricuspid valvar abnormality,
	Mitral valvar abnormality,	to 5	06.02.00	746.9		Q23.9		06.02.00	Mitral valvar abnormality,
	Mitral regurgitation,	to 963	06.02.91	746.6		Q23.3		06.02.91	Mitral regurgitation,
	Mitral stenosis,	to 960	06.02.92	746.5		Q23.2		06.02.92	Mitral stenosis,
	Mitral valvar stenosis,	to 960	06.02.93	746.5		Q23.2		06.02.93	Mitral valvar stenosis,
	Mitral valvar stenosis: functional,	to 960	06.02.94	746.5		Q23.2		06.02.92	Mitral stenosis,
	Mitral subvalvar apparatus abnormality,	to 1	06.02.12	746.9		Q23.8		06.02.12	Mitral subvalvar apparatus abnormality,
	Pulmonary valvar abnormality,	to 5	09.05.00	746		Q22.3		09.05.00	Pulmonary valvar abnormality,
	Pulmonary regurgitation,	to 963	09.05.91	746		Q22.2		09.05.91	Pulmonary regurgitation,
	Pulmonary stenosis,	to 960	09.05.92	746		Q22.1		09.05.92	Pulmonary stenosis,
	Pulmonary valvar stenosis: functional,	to 960	09.05.93	746		Q22.1		09.05.92	Pulmonary stenosis,
	Pulmonary stenosis or atresia not present,	to 1	09.05.94	nc		nc		nc	
	Pulmonary valvar stenosis,	to 960	09.05.01	746		Q22.1		09.05.01	Pulmonary valvar stenosis,
	Aortic valvar abnormality,	to 5	09.15.00	746.9		Q23.9		09.15.00	Aortic valvar abnormality,
	Aortic regurgitation,	to 963	09.15.91	746.4		Q23.1		09.15.91	Aortic regurgitation,
	Aortic stenosis,	to 960	09.15.92	746.3		Q23.0		09.15.92	Aortic valvar stenosis,
	Aortic valvar stenosis,	to 960	09.15.13	746.3		Q23.0		09.15.13	Aortic valvar stenosis,
	Aortic valvar stenosis: functional,	to 960	09.15.93	746.3		Q23.0		09.15.92	Aortic valvar stenosis,
	Aortic stenosis not present,	to 1	09.15.89	nc		nc		not relevant	
	Congenital polyvalvar dysplasia,	to 960	06.00.33	746.8		Q24.8		01.01.39	Cardiac abnormality,
	End of branch								
5	Congenital heart defects in sequential segmental order								
	Arrangement of heart & organs, connections, topology	to 10	not relevant						
	Tetralogy of Fallot and variants	to 70	not relevant						
	Transposition of great arteries and variants	to 71	not relevant						
	Functionally univentricular heart variants	to 72	not relevant						
	Great vein and coronary sinus abnormalities	to 75	not relevant						
	Atrial and atrial septal abnormalities	to 100	not relevant						
	Atrioventricular septal defect and atrioventricular valvar abnormalities	to 150	not relevant						
	Ventricular and ventricular septal abnormalities	to 250	not relevant						
	Arterial valvar and great arterial abnormalities	to 300	not relevant						
	Congenital anomalies of pericardium	to 497	not relevant						
	To Table of contents	to 1	not relevant						
10	Arrangement of heart & organs, connections, topology								
	Position-Orientation of heart in thorax	to 15	not relevant						
	Position & morphology of thoraco-abdominal organs	to 20	not relevant						
	Atrial arrangement (sites), atrioventricular & ventriculo-arterial connections	to 30	not relevant						
	Cardiac & great vessel topology and relationships	to 60	not relevant						
	Segmental nomenclature	to 68	not relevant						
	Ventricular imbalance	to 73	not relevant						
	Conjoined twins	to 532	not relevant						
	Congenital abnormality of cardiac position and/or connections,	to 1	01.01.35	746.9		Q24.9		01.01.39	Cardiac abnormality,
15	Position - Orientation of heart in thorax								
	Normal position-orientation of heart,	to 1	02.01.00	nc		nc		not relevant	
	Position-orientation of heart abnormal,	to 1	02.01.09	746.8		Q24.8		02.01.09	Position-orientation of heart abnormal,
	Extrathoracic heart (ectopia cordis),	to 16	02.01.01	746.8		Q24.8		02.01.09	Position-orientation of heart abnormal,
	Dextrocardia: heart predominantly in right hemithorax,	to 1	02.01.02	746.8		Q24.0		02.01.02	Dextrocardia: heart predominantly in right hemithorax,
	Laevocardia: heart predominantly in left hemithorax,	to 1	02.01.03	746.8		Q24.1		02.01.03	Laevocardia: heart predominantly in left hemithorax,
	Midline heart (mesocardia),	to 1	02.01.04	746.8		Q24.8		02.01.04	Midline heart (mesocardia),
	Heart rotated to right (dextrorotation),	to 1	02.01.05	746.8		Q24.8		02.01.09	Position-orientation of heart abnormal,
	Heart rotated to left (laevorotation),	to 1	02.01.06	746.8		Q24.8		02.01.09	Position-orientation of heart abnormal,
	Apex of heart to right (dextroversion),	to 1	02.02.01	746.8		Q24.0		02.01.09	Position-orientation of heart abnormal,
	Apex of heart to left (laevoversion),	to 1	02.02.00	746.8		Q24.1		not relevant	
	Apex of heart anterior to the cardiac base,	to 1	02.02.20	746.8		Q24.0		02.01.09	Position-orientation of heart abnormal,
	Apex of heart posterior to the cardiac base,	to 1	02.02.21	746.8		Q24.0		02.01.09	Position-orientation of heart abnormal,
	Blind apex of heart,	to 1	02.02.03	746.8		Q24.8		02.01.09	Position-orientation of heart abnormal,
	Midline apex of heart,	to 1	02.02.04	746.8		Q24.8		02.01.04	Midline heart (mesocardia),

	Midline apex of heart: anterior,	to 1	02.02.18	746.8	Q24.8	02.01.04	Midline heart (mesocardia),
	Midline apex of heart: posterior,	to 1	02.02.19	746.8	Q24.8	02.01.04	Midline heart (mesocardia),
	no entry	to 1	not relevant				
16 @	Extrathoracic heart (ectopia cordis) qualifiers						
	- cervical,	to 1	Q1.02.11			not relevant	
	- cervical complete (no skin covering),	to 1	Q1.02.16			not relevant	
	- cervical incomplete (skin covered),	to 1	Q1.02.17			not relevant	
	- thoracic,	to 1	Q1.02.12			not relevant	
	- thoracic complete (no skin covering),	to 1	Q1.02.13			not relevant	
	- thoracic incomplete (skin covered),	to 1	Q1.02.14			not relevant	
	- thoracoabdominal,	to 1	Q1.02.15			not relevant	
	- thoracoabdominal complete (no skin covering),	to 1	Q1.02.18			not relevant	
	- thoracoabdominal incomplete (skin covered),	to 1	Q1.02.19			not relevant	
	- abdominal,	to 1	Q1.02.20			not relevant	
	- abdominal complete (no skin covering),	to 1	Q1.02.21			not relevant	
	- abdominal incomplete (skin covered),	to 1	Q1.02.22			not relevant	
	no entry	to 1	not relevant				
	End of branch						
20	Position & morphology of thoraco-abdominal organs						
	Normal position & morphology of thoraco-abdominal organs,	to 1	03.01.00	nc	nc	not relevant	
	Position or morphology of thoraco-abdominal organs abnormal,	to 1	03.01.09	759.9	Q89.9	03.01.09	Position or morphology of thoraco-abdominal organs abnormal,
	Total mirror imagery (situs inversus),	to 1	03.01.03	759.9	Q89.3	03.01.03	Total mirror imagery (situs inversus),
	Abdominal mirror imagery (situs inversus),	to 1	03.01.01	759.9	Q89.3	03.01.09	Position or morphology of thoraco-abdominal organs abnormal,
	Heterotaxy including mirror image arrangement,	to 38	03.01.11	759.9	Q20.6	03.01.02	Visceral heterotaxy (abnormal arrangement thoraco-abdominal organs) (situs ambiguus),
	Visceral heterotaxy (abnormal arrangement thoraco-abdominal organs) (situs ambiguus),	to 38	03.01.02	759.9	Q20.6	03.01.02	Visceral heterotaxy (abnormal arrangement thoraco-abdominal organs) (situs ambiguus),
	Right isomerism ('asplenia syndrome'),	to 1	03.01.04	746.8	Q20.6	03.01.04	Right isomerism ('asplenia syndrome'),
	Left isomerism ('polysplenia syndrome'),	to 1	03.01.05	746.8	Q20.6	03.01.05	Left isomerism ('polysplenia syndrome'),
	Thymus absent,	to 1	03.01.06	759.2	Q89.2	03.01.09	Position or morphology of thoraco-abdominal organs abnormal,
	Thymus present,	to 1	03.01.07	nc	nc	not relevant	
	Mediastinal neurogenic cyst,	to 1	03.01.10	742.5	Q06.8	03.01.09	Position or morphology of thoraco-abdominal organs abnormal,
	Lung arrangement and sequestration anomalies	to 21	not relevant				
	Tracheobronchial anatomy and anomalies	to 22	not relevant				
	Spleen	to 23	not relevant				
	Liver	to 24	not relevant				
	Stomach	to 25	not relevant				
	Intestines	to 26	not relevant				
	Diaphragm	to 27	not relevant				
21	Lung arrangement and sequestration anomalies						
	Lungs in normal arrangement,	to 1	03.02.01	nc	nc	not relevant	
	Lungs in mirror image arrangement,	to 1	03.02.02	759.3	Q89.3	03.02.09	Lung anomaly,
	Bilateral trilobed (right) lungs (right isomerism),	to 1	03.02.03	748.9	Q33.9	03.02.09	Lung anomaly,
	Bilateral bilobed (left) lungs (left isomerism),	to 1	03.02.04	748.9	Q33.9	03.02.09	Lung anomaly,
	Two lobed right-sided lung,	to 1	03.02.05	748.9	Q33.9	03.02.09	Lung anomaly,
	Two lobed left-sided lung,	to 1	03.02.06	nc	nc	not relevant	
	Lung hypoplasia,	to 1	03.02.15	748.5	Q33.6	03.02.09	Lung anomaly,
	Hypoplastic right lung,	to 1	03.02.07	748.5	Q33.6	03.02.09	Lung anomaly,
	Hypoplastic left lung,	to 1	03.02.08	748.5	Q33.6	03.02.09	Lung anomaly,
	Functionally congenital single lung,	to 1	03.02.14	748.5	Q33.2	03.02.14	Functionally congenital single lung,
	Sequestered lobe of lung,	to 1	03.02.11	748.5	Q33.2	03.02.09	Lung anomaly,
	Sequestered lobe of lung: extralobar,	to 1	03.02.16	748.5	Q33.2	03.02.09	Lung anomaly,
	Sequestered lobe of lung: intralobar,	to 1	03.02.17	748.5	Q33.2	03.02.09	Lung anomaly,
	Sequestered lobe of right-sided lung,	to 1	03.02.12	748.5	Q33.2	03.02.09	Lung anomaly,
	Sequestered lobe of right-sided lung: extralobar,	to 1	03.02.18	748.5	Q33.2	03.02.09	Lung anomaly,
	Sequestered lobe of right-sided lung: intralobar,	to 1	03.02.19	748.5	Q33.2	03.02.09	Lung anomaly,
	Sequestered lobe of left-sided lung,	to 1	03.02.13	748.5	Q33.2	03.02.09	Lung anomaly,
	Sequestered lobe of left-sided lung: extralobar,	to 1	03.02.20	748.5	Q33.2	03.02.09	Lung anomaly,
	Sequestered lobe of left-sided lung: intralobar,	to 1	03.02.21	748.5	Q33.2	03.02.09	Lung anomaly,
	Lung anomaly,	to 1	03.02.09	748.9	Q33.8	03.02.09	Lung anomaly,
	Azygos lobe of right lung,	to 1	03.02.22	748.5	Q33.2	03.02.09	Lung anomaly,
	Other thoraco-respiratory anomalies	to 183	not relevant				
22	Tracheobronchial anatomy and anomalies						
	Tracheal anomaly,	to 1	14.03.65	748.3	Q32.1	03.03.05	Tracheobronchial anomaly,
	Tracheomalacia: congenital,	to 1	14.03.68	748.3	Q32.0	03.03.05	Tracheobronchial anomaly,
	Tracheal stenosis: congenital,	4069	14.03.61	748.3	Q32.1	16.10.01	Tracheal stenosis,
	Tracheal stenosis: congenital complete rings,	4069	14.03.62	748.3	Q32.1	16.10.01	Tracheal stenosis,
	Tracheal stenosis: congenital web,	4069	14.03.63	748.3	Q32.1	16.10.01	Tracheal stenosis,
	Tracheal origin of right upper lobe bronchus ('pig bronchus'),	to 1	14.03.64	748.3	Q32.1	03.03.05	Tracheobronchial anomaly,
	Bridging bronchus (bronchial connection to contralateral lung),	to 1	14.03.60	748.3	Q32.4	03.03.05	Tracheobronchial anomaly,
	Bronchial anomaly,	to 1	03.03.00	748.3	Q32.4	03.03.05	Tracheobronchial anomaly,
	Normal bronchial anatomy,	to 1	03.03.01	nc	nc	not relevant	
	Mirror image bronchial anatomy,	to 1	03.03.02	748.3	Q89.3	03.03.05	Tracheobronchial anomaly,
	Bilateral right bronchi (short - right isomerism),	to 1	03.03.03	748.3	Q32.4	03.03.05	Tracheobronchial anomaly,
	Bilateral left bronchi (long - left isomerism),	to 1	03.03.04	748.3	Q32.4	03.03.05	Tracheobronchial anomaly,
	Tracheobronchial anomaly,	to 1	03.03.05	748.3	Q32.4	03.03.05	Tracheobronchial anomaly,
	Bronchial atresia,	to 3300	03.03.07	748.3	Q32.4	03.03.05	Tracheobronchial anomaly,
	Bronchial agenesis,	to 3300	03.03.08	748.3	Q32.4	03.03.05	Tracheobronchial anomaly,
	Bronchomalacia: congenital,	to 3300	14.03.45	748.6	Q32.2	03.03.05	Tracheobronchial anomaly,
	Bronchial stenosis: congenital,	to 3300	03.03.09	748.3	Q32.3	03.03.05	Tracheobronchial anomaly,
	Bronchial diverticulum,	to 3300	03.03.10	748.3	Q32.4	03.03.05	Tracheobronchial anomaly,
	Bronchial fistula	to 4015	not relevant				
	Bronchogenic cyst,	to 1	03.03.11	748.4	Q33.0	03.03.05	Tracheobronchial anomaly,
	Bronchogenic foregut malformation,	to 1	03.03.12	751.5	Q43.8	03.03.05	Tracheobronchial anomaly,
23	Spleen						
	Abnormal spleen,	to 1	03.07.00	759.0	Q89.0	03.01.09	Position or morphology of thoraco-abdominal organs abnormal,
	Spleen left-sided,	to 1	03.07.01	nc	nc	not relevant	
	Spleen right-sided,	to 1	03.07.02	759	Q89.0	03.01.09	Position or morphology of thoraco-abdominal organs abnormal,
	Spleen absent (asplenia),	to 1	03.07.03	759	Q20.6	03.07.03	Spleen absent (asplenia),
	Multiple spleens (polysplenia),	to 1	03.07.04	759	Q20.6	03.07.04	Multiple spleens (polysplenia),
	Spleen related congenital anomaly,	to 1	03.07.05	759	Q89.0	03.01.09	Position or morphology of thoraco-abdominal organs abnormal,
24	Liver						
	Abnormal liver,	to 1	03.04.00	751.6	Q44.7	03.01.09	Position or morphology of thoraco-abdominal organs abnormal,
	Liver right-sided,	to 1	03.04.01	nc	nc	not relevant	
	Liver left-sided,	to 1	03.04.02	751.6	Q44.7	03.01.09	Position or morphology of thoraco-abdominal organs abnormal,
	Liver centrally situated,	to 1	03.04.03	751.6	Q44.7	03.01.09	Position or morphology of thoraco-abdominal organs abnormal,
	Liver related congenital anomaly,	to 1	03.04.05	751.6	Q44.7	03.01.09	Position or morphology of thoraco-abdominal organs abnormal,
25	Stomach						
	Abnormal stomach,	to 1	03.05.00	750.7	Q40.3	03.01.09	Position or morphology of thoraco-abdominal organs abnormal,
	Stomach left-sided,	to 1	03.05.01	nc	nc	not relevant	
	Stomach right-sided,	to 1	03.05.02	750.7	Q40.2	03.01.09	Position or morphology of thoraco-abdominal organs abnormal,
	Stomach centrally situated,	to 1	03.05.03	750.7	Q40.2	03.01.09	Position or morphology of thoraco-abdominal organs abnormal,
	Stomach related congenital anomaly,	to 1	03.05.04	750.7	Q40.3	03.01.09	Position or morphology of thoraco-abdominal organs abnormal,
26	Intestines						
	Abnormal intestines,	to 1	03.06.00	751.5	Q43.8	03.01.09	Position or morphology of thoraco-abdominal organs abnormal,
	Caecum right-sided,	to 1	03.06.01	nc	nc	not relevant	
	Caecum left-sided,	to 1	03.06.02	751.5	Q43.8	03.01.09	Position or morphology of thoraco-abdominal organs abnormal,
	Intestines malrotated,	to 1	03.06.03	751.4	Q43.3	03.06.03	Intestines malrotated,
	Intestine related congenital anomaly,	to 1	03.06.04	751.5	Q43.8	03.01.09	Position or morphology of thoraco-abdominal organs abnormal,
27	Diaphragm abnormalities and anomalies						
	Abnormal diaphragm,	to 1	03.07.21	756.6	Q79.0	03.01.09	Position or morphology of thoraco-abdominal organs abnormal,
	Diaphragm absent,	to 1	03.07.22	756.6	Q79.0	03.01.09	Position or morphology of thoraco-abdominal organs abnormal,
	Diaphragm absent: right,	to 1	03.07.23	756.6	Q79.0	03.01.09	Position or morphology of thoraco-abdominal organs abnormal,
	Diaphragm absent: left,	to 1	03.07.24	756.6	Q79.0	03.01.09	Position or morphology of thoraco-abdominal organs abnormal,
	Diaphragmatic hernia,	to 951	03.07.25	553.3	K44.9	14.03.07	Congenital diaphragmatic hernia,
	Diaphragmatic hernia: right-sided,	to 951	03.07.26	553.3	K44.9	14.03.07	Congenital diaphragmatic hernia,
	Diaphragmatic hernia: left-sided,	to 951	03.07.27	553.3	K44.9	14.03.07	Congenital diaphragmatic hernia,
	Congenital diaphragmatic hernia,	to 951	14.03.07	756.6	Q79.0	14.03.07	Congenital diaphragmatic hernia,
	Congenital diaphragmatic hernia: anterior retrosternal (foramen of Morgagni),	to 951	03.07.28	756.6	Q79.0	14.03.07	Congenital diaphragmatic hernia,
	Congenital diaphragmatic hernia: posterolateral,	to 951	03.07.29	756.6	Q79.0	14.03.07	Congenital diaphragmatic hernia,
	Diaphragmatic hiatal hernia,	to 951	03.07.30	750.6	Q40.1	14.03.07	Congenital diaphragmatic hernia,
	Diaphragmatic hiatal hernia: sliding,	to 951	03.07.31	750.6	Q40.1	14.03.07	Congenital diaphragmatic hernia,
	Diaphragmatic hiatal hernia: paraoesophageal,	to 951	03.07.32	750.6	Q40.1	14.03.07	Congenital diaphragmatic hernia,
	Diaphragmatic hiatal hernia: sliding & paraoesophageal,	to 951	03.07.33	750.6	Q40.1	14.03.07	Congenital diaphragmatic hernia,

	Diaphragm paralysis: congenital,	to 951	16.13.21	519.4	J98.6	16.13.20	Diaphragm paralysis,
	Diaphragm paralysis: congenital right-sided,	to 951	16.13.22	519.4	J98.6	16.13.20	Diaphragm paralysis,
	Diaphragm paralysis: congenital left-sided,	to 951	16.13.23	519.4	J98.6	16.13.20	Diaphragm paralysis,
	Diaphragm eventration,	to 951	16.13.27	519.4	J98.6	16.13.20	Diaphragm paralysis,
	Diaphragm eventration: right-sided,	to 951	16.13.28	519.4	J98.6	16.13.20	Diaphragm paralysis,
	Diaphragm eventration: left-sided,	to 951	16.13.29	519.4	J98.6	16.13.20	Diaphragm paralysis,
	Diaphragm congenital anomaly,	to 1	03.07.34	756.6	Q79.0	03.01.09	Position or morphology of thoraco-abdominal organs abnormal,
	End of branch						
30	Atrial arrangement (situs), atrioventricular & ventriculo-arterial connections						
	Normal atrial arrangement (situs), atrioventricular & ventriculo-arterial connections,	to 1	01.03.10			01.03.10	Normal atrial arrangement (situs), atrioventricular & ventriculo-arterial connections,
	Atrioventricular and/or ventriculo-arterial connections abnormal,	to 11	01.03.09	746.9	Q20.9	01.03.09	Atrioventricular and/or ventriculo-arterial connections abnormal,
	Atrial arrangement (situs), atrioventricular or ventriculo-arterial connections	to 31	not relevant				
	Functionally univentricular heart variants	to 72	not relevant				
31	Atrial arrangement (situs)						
	Usual atrial arrangement (atrial situs solitus),	to 38	01.03.00			01.03.00	Usual atrial arrangement (atrial situs solitus),
	Isomerism of atrial appendages,	to 32	01.03.08	746.8	Q20.6	01.03.06	Abnormal atrial arrangement,
	Mirror image atrial arrangement (atrial situs inversus),	to 38	01.03.01	746.9	Q89.3	03.01.03	Total mirror imagery (situs inversus),
	Isomerism of right atrial appendages (right isomerism),	to 32	01.03.02	746.8	Q20.6	03.01.04	Right isomerism (asplenia syndrome),
	Isomerism of left atrial appendages (left isomerism),	to 32	01.03.03	746.8	Q20.6	03.01.05	Left isomerism (polysplenia syndrome),
	Abnormal atrial arrangement,	to 38	01.03.06	746.9	Q20.9	01.03.06	Abnormal atrial arrangement,
	Atrial arrangement (situs) ambiguous (indeterminate),	to 38	01.03.04	746.9	Q20.9	01.03.06	Abnormal atrial arrangement,
	Atrial arrangement uncertain,	to 38	01.03.11				not relevant
	Atrial arrangement unknown,	to 38	01.03.07				not relevant
	no entry	to 38	not relevant				
32	Atrioventricular connections for atrial isomerism						
	Mixed ("ambiguous") atrioventricular connections (biventricular),	to 10	01.04.02	746.8	Q20.6	01.03.09	Atrioventricular and/or ventriculo-arterial connections abnormal,
	Double inlet atrioventricular connection	to 41	not relevant				
	Absent atrioventricular connection (single inlet ventricle),	to 10	01.04.21	746.8	Q20.6	01.03.09	Atrioventricular and/or ventriculo-arterial connections abnormal,
	Absent right-sided atrioventricular connection,	to 46	01.04.19	746.1	Q22.4	06.01.01	Tricuspid atresia,
	Absent right-sided atrioventricular connection (univentricular),	to 46	01.04.12	746.1	Q22.4	06.01.01	Tricuspid atresia,
	Absent left-sided atrioventricular connection,	to 47	01.04.20	746.8	Q23.2	06.02.01	Mitral atresia,
	Absent left-sided atrioventricular connection (univentricular),	to 47	01.04.13	746.8	Q23.2	06.02.01	Mitral atresia,
	Absent right-sided atrioventricular connection with straddling valve (uniatlial biventricular),	to 46	01.04.15	746.1	Q22.4	06.01.01	Tricuspid atresia,
	Absent left-sided atrioventricular connection with straddling valve (uniatlial biventricular),	to 47	01.04.16	746.8	Q23.2	06.02.01	Mitral atresia,
	no entry	to 10	not relevant				
38	Atrioventricular connections						
	Concordant atrioventricular connections,	to 10	01.04.00			not relevant	
	Discordant atrioventricular connections,	to 10	01.04.01	746.8	Q20.5	01.03.09	Atrioventricular and/or ventriculo-arterial connections abnormal,
	Double inlet atrioventricular connection	to 41	not relevant				
	Absent atrioventricular connection (single inlet ventricle),	to 10	01.04.21	746.8	Q20.6	01.03.09	Atrioventricular and/or ventriculo-arterial connections abnormal,
	Absent right-sided atrioventricular connection,	to 46	01.04.19	746.1	Q22.4	06.01.01	Tricuspid atresia,
	Absent right-sided atrioventricular connection (univentricular),	to 46	01.04.12	746.1	Q22.4	06.01.01	Tricuspid atresia,
	Absent left-sided atrioventricular connection,	to 47	01.04.20	746.8	Q23.2	06.02.01	Mitral atresia,
	Absent left-sided atrioventricular connection (univentricular),	to 47	01.04.13	746.8	Q23.2	06.02.01	Mitral atresia,
	Absent right-sided atrioventricular connection with straddling valve (uniatlial biventricular),	to 46	01.04.15	746.1	Q22.4	06.01.01	Tricuspid atresia,
	Absent left-sided atrioventricular connection with straddling valve (uniatlial biventricular),	to 47	01.04.16	746.8	Q23.2	06.02.01	Mitral atresia,
	Atrioventricular connection(s) unknown,	to 10	01.04.22				
	no entry	to 10	not relevant				
41	Double inlet atrioventricular connection (double inlet ventricle)						
	Double inlet atrioventricular connection (double inlet ventricle),	to 42	01.01.14	745.3	Q20.4	01.01.14	Double inlet atrioventricular connection (double inlet ventricle),
	Double inlet right ventricle,	to 42	01.04.03	745.3	Q20.4	01.04.03	Double inlet right ventricle,
	Double inlet left ventricle,	to 42	01.04.04	745.3	Q20.4	01.04.04	Double inlet left ventricle,
	Double inlet to solitary ventricle of indeterminate morphology,	to 42	01.04.05	745.3	Q20.4	01.01.14	Double inlet atrioventricular connection (double inlet ventricle),
	Common atrioventricular valvar abnormalities in double inlet ventricle	to 180	not relevant				
	Right and left atrioventricular valvar abnormalities in double inlet ventricle	to 200	not relevant				
42 @	Mode of atrioventricular connection in double inlet ventricle						
	Two atrioventricular valves in double inlet ventricle,	to 10	01.06.01			not relevant	
	Common atrioventricular orifice in double inlet ventricle,	to 10	01.06.02			06.07.26	Atrioventricular septal defect (AVSD) with ventricular imbalance,
	Mode of atrioventricular connection unknown in double inlet ventricle,	to 10	01.04.23				
	no entry	to 10	not relevant				
46 @	Absent right-sided atrioventricular connection (univentricular)						
	Left-sided atrium to left ventricle,	to 10	01.04.06			not relevant	
	Left-sided atrium to right ventricle,	to 10	01.04.07	746.9	Q20.8	not relevant	
	Left-sided atrium to both ventricles,	to 10	01.04.17	746.9	Q20.8	not relevant	
	Left-sided atrium to ventricle of indeterminate morphology,	to 10	01.04.08	746.9	Q20.8	not relevant	
	no entry	to 10	not relevant				
47 @	Absent left-sided atrioventricular connection (univentricular)						
	Right-sided atrium to right ventricle,	to 10	01.04.09			not relevant	
	Right-sided atrium to left ventricle,	to 10	01.04.10	746.9	Q20.8	not relevant	
	Right-sided atrium to both ventricles,	to 10	01.04.18	746.9	Q20.8	not relevant	
	Right-sided atrium to ventricle of indeterminate morphology,	to 10	01.04.11	746.9	Q20.8	not relevant	
	no entry	to 10	not relevant				
50	Ventriculo-arterial connections						
	Concordant ventriculo-arterial connections,	to 65	01.05.00			01.05.00	Concordant ventriculo-arterial connections,
	Concordant ventriculo-arterial connections with parallel great arteries (anatomically corrected malposition),	to 54	01.05.10	746.9	Q20.8	01.05.10	Concordant ventriculo-arterial connections with parallel great arteries (anatomically corrected malposition),
	Discordant ventriculo-arterial connections (TGA),	to 65	01.05.01	745.1	Q20.3	01.05.01	Discordant ventriculo-arterial connections (TGA),
	Double outlet ventriculo-arterial connections	to 51	not relevant				
	Single outlet ventriculo-arterial connection	to 55	not relevant				
	Ventriculo-arterial connection(s) unknown or unspecified,	to 65	01.05.17			not relevant	
	no entry	to 65	not relevant				
51	Double outlet ventriculo-arterial connections						
	Double outlet right ventricle,	to 54	01.01.04	746.8	Q20.1	01.01.04	Double outlet right ventricle,
	Double outlet right ventricle: Fallot type (subaortic or doubly committed ventricular septal defect & pulmonary stenosis),	to 54	01.01.17	746.8	Q20.1	01.01.17	Double outlet right ventricle: Fallot type (subaortic or doubly committed ventricular septal defect & pulmonary stenosis),
	Double outlet right ventricle: transposition type (subpulmonary ventricular septal defect),	to 54	01.01.18	746.8	Q20.1	01.01.18	Double outlet right ventricle: transposition type (subpulmonary ventricular septal defect),
	Double outlet right ventricle: subaortic or doubly committed ventricular septal defect without pulmonary stenosis (VSD type),	to 54	01.01.40	746.8	Q20.1	01.01.40	Double outlet right ventricle: subaortic or doubly committed ventricular septal defect without pulmonary stenosis (VSD type),
	Double outlet right ventricle: with subaortic ventricular septal defect,	to 54	01.01.41	746.8	Q20.1	01.01.04	Double outlet right ventricle,
	Double outlet right ventricle: with non-committed ventricular septal defect,	to 54	01.01.19	746.8	Q20.1	01.01.19	Double outlet right ventricle: with non-committed ventricular septal defect,
	Double outlet right ventricle: with doubly committed subarterial ventricular septal defect,	to 54	01.01.23	746.8	Q20.1	01.01.04	Double outlet right ventricle,
	Double outlet right ventricle: with intact ventricular septum,	to 54	01.01.24	746.8	Q20.1	01.01.24	Double outlet right ventricle: with intact ventricular septum,
	Double outlet left ventricle,	to 54	01.05.03	746.8	Q20.2	01.05.03	Double outlet left ventricle,
	Double outlet from ventricle of indeterminate morphology,	to 54	01.05.04	746.9	Q20.8	01.03.09	Atrioventricular and/or ventriculo-arterial connections abnormal,
	Double outlet ventriculo-arterial connections,	to 54	01.01.50	746.9	Q20.8	01.03.09	Atrioventricular and/or ventriculo-arterial connections abnormal,
	Double outlet right ventricle related abnormality,	to 1	01.05.02	746.8	Q20.1	01.01.39	Cardiac abnormality,
	Ventricular septal defect (VSD) in double outlet ventriculo-arterial connections	to 297	not relevant				
	Atrioventricular valvar and subvalvar characteristics	to 150	not relevant				
	Infundibular (conus) morphology	to 286	not relevant				
54 @	Mitral valve - arterial valve continuity-discontinuity						
	Mitral valve - aortic valve continuity,	to 67	02.05.01			not relevant	
	Mitral valve - pulmonary valve continuity,	to 67	02.05.02			not relevant	
	Mitral valve - aortic valve discontinuity,	to 67	02.05.03			not relevant	
	Mitral valve - pulmonary valve discontinuity,	to 67	02.05.04			not relevant	
	Mitral valve - arterial valve relationship unknown,	to 67	02.05.05			not relevant	
	no entry	to 67	not relevant				
55	Type of single outlet ventriculo-arterial connection						
	Common arterial trunk (truncus arteriosus),	to 58	09.01.01	745	Q20.0	09.01.01	Common arterial trunk (truncus arteriosus),
	Single outlet ventriculo-arterial connection via aorta (pulmonary atresia),	to 58	01.05.32	745.2	Q21.3	01.01.06	Pulmonary atresia + ventricular septal defect (VSD) (including Fallot type),
	Single outlet ventriculo-arterial connection via pulmonary trunk (aortic atresia),	to 58	01.05.33	746.7	Q23.4	09.15.03	Aortic atresia,
	Solitary arterial trunk (absent intrapericardial pulmonary arteries),	to 58	09.07.26	745.2	Q25.7	09.07.26	Solitary arterial trunk (absent intrapericardial pulmonary arteries),
	Single outlet ventriculo-arterial connection,	to 58	01.01.51	746.9	Q20.8	01.03.09	Atrioventricular and/or ventriculo-arterial connections abnormal,

58 @ Ventricular commitment of single ventriculo-arterial outlet artery

Single ventricular outlet above both ventricles,	to 1	01.05.41			not relevant
Single ventricular outlet above right ventricle,	to 1	01.05.42			not relevant
Single ventricular outlet above left ventricle,	to 1	01.05.43			not relevant
Single ventricular outlet above ventricle of indeterminate morphology,	to 1	01.05.44			not relevant
Single ventricular outlet,	to 1	01.05.45			not relevant
Ventricular commitment of ventriculo-arterial artery unknown or unspecified,	to 1	01.05.46			not relevant
Subtypes of common arterial trunk	to 310	not relevant			not relevant
no entry	to 1	not relevant			not relevant

End of branch

60 Cardiac & great vessel topology and relationships

Ventricular topology	to 61	not relevant			
Cross-cross heart	to 63	not relevant			
Relationship of right ventricle with respect to left ventricle	to 64	not relevant			
Relationship of aortic orifice with respect to pulmonary orifice	to 65	not relevant			
Relationships of great vessels	to 66	not relevant			
Mitral valve - arterial valve continuity-discontinuity	to 54	not relevant			
Tricuspid annulus to pulmonary 'annulus' distance - qualifiers	to 67	not relevant			

61 Ventricular topology

Right hand pattern ventricular topology (D loop) (segmental nomenclature letter 2: 'D'),	to 64	02.03.01			not relevant
Left hand pattern ventricular topology (L loop) (segmental nomenclature letter 2: 'L'),	to 64	02.03.02			not relevant
True solitary single ventricle,	to 1	02.03.07	745.3	Q20.4	02.03.05 Solitary ventricle of indeterminate morphology,
Solitary ventricle of indeterminate morphology,	to 1	02.03.05	745.3	Q20.4	02.03.05 Solitary ventricle of indeterminate morphology,
True solitary single ventricle of right ventricular morphology,	to 1	02.03.08	745.3	Q20.4	02.03.05 Solitary ventricle of indeterminate morphology,
True solitary single ventricle of left ventricular morphology,	to 1	02.03.09	745.3	Q20.4	02.03.05 Solitary ventricle of indeterminate morphology,
Ventricular topology anomaly,	to 64	02.03.04			not relevant
Ventricular topology pattern not determinable (segmental nomenclature letter 2: 'X'),	to 64	02.03.06			not relevant

63 Criss-cross heart (twisted atrioventricular connections)

Criss-cross heart (twisted atrioventricular connections),	to 64	02.03.03	746.9	Q20.9	01.03.09 Atrioventricular and/or ventriculo-arterial connections abnormal,
Criss-cross heart with leftward rotation,	to 64	02.03.11	746.9	Q20.9	01.03.09 Atrioventricular and/or ventriculo-arterial connections abnormal,
Criss-cross heart with rightward rotation,	to 64	02.03.12	746.9	Q20.9	01.03.09 Atrioventricular and/or ventriculo-arterial connections abnormal,
Criss-cross heart (twisted atrioventricular connections) related abnormally,	to 1	02.03.13	746.9	Q20.9	01.01.39 Cardiac abnormality,

64 Relationship of right ventricle with respect to left ventricle

Abnormal relationship of right ventricle with respect to left ventricle,	to 1	02.04.11	746.9	Q20.9	02.01.09 Position-orientation of heart abnormal,
Superior-inferior ('upstairs-downstairs') ventricular relationship,	to 1	02.04.00	746.9	Q20.9	02.01.09 Position-orientation of heart abnormal,
Right ventricle to right with respect to left ventricle,	to 1	02.04.01			not relevant
Right ventricle to left with respect to left ventricle,	to 1	02.04.02	746.9	Q20.9	02.01.09 Position-orientation of heart abnormal,
Right ventricle superior with respect to left ventricle,	to 1	02.04.03			not relevant
Right ventricle inferior with respect to left ventricle,	to 1	02.04.04	746.9	Q20.9	02.01.09 Position-orientation of heart abnormal,
Right ventricle anterior with respect to left ventricle,	to 1	02.04.05			not relevant
Right ventricle posterior with respect to left ventricle,	to 1	02.04.06	746.9	Q20.9	02.01.09 Position-orientation of heart abnormal,
Right ventricle not apparent,	to 1	02.04.08	746.9	Q20.9	07.08.41 Ventricular imbalance: dominant left ventricle + hypoplastic right ventricle
Left ventricle not apparent,	to 1	02.04.09	746.9	Q20.9	07.08.42 Ventricular imbalance: dominant right ventricle + hypoplastic left ventricle
Either ventricle not apparent,	to 1	02.04.07	746.9	Q20.9	01.01.22 Functionally univentricular heart
Ventricular relationships unknown,	to 1	02.04.10			no equivalent
no entry	to 1	not relevant			

65 Relationship of aortic orifice with respect to pulmonary orifice

Aortic orifice posterior right with respect to pulmonary orifice (normal),	to 1	02.06.00			not relevant
Aortic orifice right side-by-side with respect to pulmonary orifice,	to 1	02.06.01	747.2	Q25.9	02.01.09 Position-orientation of heart abnormal,
Aortic orifice anterior right with respect to pulmonary orifice,	to 1	02.06.02	747.2	Q25.9	02.01.09 Position-orientation of heart abnormal,
Aortic orifice anterior with respect to pulmonary orifice,	to 1	02.06.03	747.2	Q25.9	02.01.09 Position-orientation of heart abnormal,
Aortic orifice anterior left with respect to pulmonary orifice,	to 1	02.06.04	747.2	Q25.9	02.01.09 Position-orientation of heart abnormal,
Aortic orifice left side-by-side with respect to pulmonary orifice,	to 1	02.06.05	747.2	Q25.9	02.01.09 Position-orientation of heart abnormal,
Aortic orifice posterior left with respect to pulmonary orifice,	to 1	02.06.06	747.2	Q25.9	02.01.09 Position-orientation of heart abnormal,
Aortic orifice posterior with respect to pulmonary orifice,	to 1	02.06.07	747.2	Q25.9	02.01.09 Position-orientation of heart abnormal,
Abnormal relationship of aortic orifice to pulmonary orifice,	to 1	02.06.09	747.2	Q25.9	02.01.09 Position-orientation of heart abnormal,
Aortic sinuses malaligned with respect to pulmonary sinuses,	to 1	02.06.10	747.2	Q25.9	02.01.09 Position-orientation of heart abnormal,
Aortic orifice to pulmonary orifice relationship unknown,	to 1	02.06.11			no equivalent
no entry	to 1	not relevant			

66 Relationships of great vessels

Spiralling course of great arteries (normal),	to 1	02.07.00			not relevant
Parallel course of great arteries,	to 1	02.07.01	747.2	Q25.9	02.01.09 Position-orientation of heart abnormal,
Descending aorta left of spine and inferior caval vein (IVC) right (normal),	to 1	03.08.00			not relevant
Descending aorta right of spine and inferior caval vein (IVC) left (mirror image),	to 1	03.08.01	747.2	Q25.9	03.01.03 Total mirror imagery (situs inversus),
Descending aorta and inferior caval vein (IVC) same side with inferior caval vein (IVC) anterior (right isomerism),	to 1	03.08.02	747.2	Q25.9	03.01.04 Right isomerism ('asplenia syndrome'),
Descending aorta anterior and same side as azygos vein with azygos continuity of inferior caval vein (left isomerism),	to 1	03.08.03	747.2	Q25.9	03.01.05 Left isomerism ('polysplenia syndrome'),

67 @ Tricuspid annulus to pulmonary 'annulus' distance - qualifiers

Tricuspid annulus to pulmonary 'annulus' distance less than aortic 'annulus' diameter,	to 65	Q1.05.41			not relevant
Tricuspid annulus to pulmonary 'annulus' distance equal to aortic 'annulus' diameter,	to 65	Q1.05.42			not relevant
Tricuspid annulus to pulmonary 'annulus' distance more than aortic 'annulus' diameter,	to 65	Q1.05.43			not relevant
no entry	to 65	not relevant			

68 Segmental nomenclature

Normal cardiac segments (S-D-S),	to 1	01.01.70			not relevant
Segmental nomenclature Letter 1 (Silus): A = Ambiguous,	to 1	01.01.71	746.8	Q20.6	not relevant
Segmental nomenclature Letter 1 (Silus): I = Inversus,	to 1	01.01.72	746.9	Q89.3	not relevant
Segmental nomenclature Letter 1 (Silus): S = Solitus,	to 1	01.01.73			not relevant
Segmental nomenclature Letter 1 (Silus): X = unknown or not possible to determine,	to 1	01.01.74			not relevant
Right hand pattern ventricular topology (D loop) (segmental nomenclature letter 2: 'D'),	to 1	02.03.01			not relevant
Left hand pattern ventricular topology (L loop) (segmental nomenclature letter 2: 'L'),	to 1	02.03.02			not relevant
Ventricular topology pattern not determinable (segmental nomenclature letter 2: 'X'),	to 1	02.03.06			not relevant
Segmental nomenclature Letter 3 (relationship of great arteries in space): A = aorta directly anterior to pulmonary artery,	to 1	01.01.75	747.2	Q25.9	not relevant
Segmental nomenclature Letter 3 (relationship of great arteries in space): D = aorta to the right of the pulmonary artery,	to 1	01.01.76			not relevant
Segmental nomenclature Letter 3 (relationship of great arteries in space): L = aorta to the left of the pulmonary artery,	to 1	01.01.77	747.2	Q25.9	not relevant
Segmental nomenclature Letter 3 (relationship of great arteries in space): N = Normal (solitus),	to 1	01.01.78			not relevant
Segmental nomenclature Letter 3 (relationship of great arteries in space): S = Solitus (normal),	to 1	01.01.79			not relevant
Segmental nomenclature Letter 3 (relationship of great arteries in space): X = unknown or not possible to determine,	to 1	01.01.80			not relevant

End of branch

70 Tetralogy of Fallot and variants

Tetralogy of Fallot,	to 265	01.01.01	745.2	745.2	Q21.3	Q21.3	01.01.01	Tetralogy of Fallot,
Atrioventricular septal defect and Tetralogy of Fallot,	to 1	01.01.20	745.6	745.2	Q21.2	Q21.3	01.01.20	Atrioventricular septal defect and Tetralogy of Fallot,
Double outlet right ventricle: Fallot type (subaortic or doubly committed ventricular septal defect & pulmonary stenosis),	to 1	01.01.17	746.8		Q20.1		01.01.17	Double outlet right ventricle: Fallot type (subaortic or doubly committed VSD & pulmonary stenosis),
Pulmonary atresia + ventricular septal defect (VSD) (including Fallot type),	to 288	01.01.06	745.2		Q21.3		01.01.06	Pulmonary atresia + ventricular septal defect (VSD) (including Fallot type),
Pulmonary atresia + ventricular septal defect (VSD): Fallot type,	to 288	01.01.26	745.2		Q21.3		01.01.06	Pulmonary atresia + ventricular septal defect (VSD) (including Fallot type),
Pulmonary atresia + ventricular septal defect (VSD) + systemic-to-pulmonary collateral artery(ies) (MAPCA(s)),	to 489	01.01.25	745.2	747.9	Q21.3	Q27.8	01.01.25	Pulmonary atresia + ventricular septal defect (VSD) + systemic-to-pulmonary collateral artery(ies) (MAPCA(s)),
Pulmonary atresia + ventricular septal defect (VSD): Fallot type with native pulmonary arteries present,	to 288	01.01.55	745.2		Q21.3		01.01.06	Pulmonary atresia + ventricular septal defect (VSD) (including Fallot type),
Absent pulmonary valve syndrome,	to 288	09.05.53	746.8		Q24.8		09.05.25	Absent pulmonary valve syndrome: Fallot-type,
Absent pulmonary valve syndrome: Fallot-type,	to 288	09.05.25	746.8	746.0	Q24.8	Q22.3	09.05.25	Absent pulmonary valve syndrome: Fallot-type,
Solitary arterial trunk (absent intrapericardial pulmonary arteries),	to 1	09.07.26	745.2		Q25.7		09.07.26	Solitary arterial trunk (absent intrapericardial pulmonary arteries),
Right ventricular outflow tract obstruction due to septoparietal trabeculation (Fallot type),	to 281	07.05.16	746.8		Q24.3		07.05.01	Right ventricular outflow tract obstruction,
Aberrant course of coronary artery: left anterior descending from right coronary artery across right ventricular outflow tract,	to 1	09.43.04	746.8		Q24.5		09.43.18	Aberrant course of coronary artery: across right ventricular outflow tract,
Other right ventricular outflow tract characteristics	to 286	not relevant						
Pulmonary valve-trunk-artery abnormalities	to 330	not relevant						
Systemic-to-pulmonary collateral arteries (MAPCAs)	to 489	not relevant						
Ventricular septal defect (VSD) + malaligned outlet septum anteriorly: overriding subaortic outflow (Fallot type),	to 973	07.10.08	745.4		Q21.0		07.10.12	Ventricular septal defect (VSD) + malaligned outlet septum,
Doubly committed subarterial ventricular septal defect (VSD),	to 966	07.12.01	745.4		Q21.0		07.12.01	Doubly committed subarterial ventricular septal defect (VSD),
Other ventricular septal defect (VSD) characteristics	to 288	not relevant						
Mitral valve - arterial valve continuity-discontinuity	to 54	not relevant						

End of branch

Transposition of great arteries and variants

Transposition of great arteries (TGA) (concordant atrioventricular & discordant ventriculo-arterial connections) & intact ventricular septum,	to 1	01.01.02	745.1	Q20.3	01.01.02	Transposition of great arteries (TGA) (concordant atrioventricular & discordant ventriculo-arterial connections) & intact ventricular septum,
Congenitally corrected transposition of great arteries (discordant atrioventricular & ventriculo-arterial connections),	to 65	01.01.03	745.1	Q20.5	01.01.03	Congenitally corrected transposition of great arteries (discordant atrioventricular & ventriculo-arterial connections),
Discordant ventriculo-arterial connections (TGA),	to 65	01.05.01	745.1	Q20.3	01.05.01	Discordant ventriculo-arterial connections (TGA),
Double outlet right ventricle: transposition type (subpulmonary ventricular septal defect),	to 54	01.01.18	746.8	Q20.1	01.01.18	Double outlet right ventricle: transposition type (subpulmonary ventricular septal defect),
inadequate systemic & pulmonary mixing in transposition of great arteries physiology,	to 1	01.01.49	746.9	Q24.9	01.01.39	Cardiac abnormality,
Coronary arterial abnormalities	to 455	not relevant				
Atrial septal characteristics	to 140	not relevant				
Ventricular septal defects	to 288	not relevant				
Left ventricular outflow tract abnormalities	to 275	not relevant				

End of branch

Functionally univentricular heart variants

Functionally univentricular heart,	to 73	01.01.22	746.9	Q20.9	01.01.22	Functionally univentricular heart,
Ventricular balance	to 73	not relevant				
Double inlet ventricle codes (including common atrioventricular valve)	to 41	not relevant				
Tricuspid atresia,	to 73	06.01.01	746.1	Q22.4	06.01.01	Tricuspid atresia,
Mitral atresia,	to 73	06.02.01	746.8	Q23.2	06.02.01	Mitral atresia,
Pulmonary atresia + intact ventricular septum,	to 1	01.01.07	746	Q22.0	01.01.07	Pulmonary atresia + intact ventricular septum,
Hypoplastic left heart syndrome,	to 1	01.01.09	746.7	Q23.4	01.01.09	Hypoplastic left heart syndrome,
Solitary ventricle of indeterminate morphology,	to 1	02.03.05	745.3	Q20.4	02.03.05	Solitary ventricle of indeterminate morphology,
Common atrioventricular valvar abnormalities in functionally univentricular heart	to 180	not relevant				
Right and left atrioventricular valvar abnormalities in double inlet ventricle	to 200	not relevant				

Ventricular balance

Balanced (similar) ventricular sizes,	to 1	02.03.10				not relevant
Ventricular imbalance,	to 1	07.08.40	746.9	Q20.9	01.01.22	Functionally univentricular heart,
Ventricular imbalance: dominant left ventricle + hypoplastic right ventricle,	to 1	07.08.41	746.8	Q20.8	07.08.41	Ventricular imbalance: dominant left ventricle + hypoplastic right ventricle,
Ventricular imbalance: dominant right ventricle + hypoplastic left ventricle,	to 1	07.08.42	746.8	Q20.8	07.08.42	Ventricular imbalance: dominant right ventricle + hypoplastic left ventricle,
Ventricular morphology uncertain,	to 1	07.08.44				not relevant
Ventricular morphology uncertain: probably dominant left ventricle,	to 1	07.08.45				not relevant
Ventricular morphology uncertain: probably dominant right ventricle,	to 1	07.08.46				not relevant
Ventricular morphology uncertain: probably ventricle of indeterminate morphology,	to 1	07.08.47				not relevant
Ventricular imbalance related abnormality,	to 1	07.08.49	746.9	Q20.9	01.01.39	Cardiac abnormality,
no entry	to 1	not relevant				

End of branch

Great vein and coronary sinus abnormalities

Caval and hepatic venous abnormalities	to 76	not relevant				
Pulmonary venous abnormalities	to 85	not relevant				
Coronary sinus & cardiac (coronary) vein abnormalities	to 95	not relevant				
Other systemic vein abnormalities	to 98	not relevant				
Systemic venous connections normal,	to 1	04.00.00				not relevant
Abnormality of great vein congenital,	to 1	04.00.07	747.4	Q26.8	04.05.00	Systemic vein abnormality: congenital,
Retro-aortic innominate vein,	to 1	04.00.04	747.4	Q26.8	04.05.00	Systemic vein abnormality: congenital,
Anomalous pulmonary-to-systemic collateral vein(s),	to 1	04.00.05	747.4	Q26.8	04.05.00	Systemic vein abnormality: congenital,
Persistent left posterior (aorto-atrial) cardinal vein (left atrium to innominate vein),	to 1	04.01.06	747.4	Q26.8	04.05.00	Systemic vein abnormality: congenital,
Systemic venovenous collateral(s),	to 1	04.00.06	747.4	Q26.8	04.00.06	Systemic venovenous collateral(s),

Caval and hepatic venous abnormalities

Superior caval vein (SVC) abnormalities	to 77	not relevant				
Inferior caval vein (IVC) abnormalities	to 80	not relevant				
Hepatic and portal venous abnormalities	to 83	not relevant				
Cavospical juxtaposition,	to 1	04.01.30	746.9	Q20.8	01.01.39	Cardiac abnormality,

Superior caval vein (SVC) abnormalities

Superior caval vein (SVC) abnormality,	to 1	04.01.00	747.4	Q26.9	04.01.00	Superior caval vein (SVC) abnormality,
Superior caval vein (SVC) abnormality: congenital,	to 1	04.01.09	747.4	Q26.8	04.01.00	Superior caval vein (SVC) abnormality,
Left superior caval vein and abnormalities	to 78	not relevant				
Right superior caval vein (SVC) connecting to right atrium,	to 1	04.00.01				not relevant
Right superior caval vein (SVC) abnormality,	to 1	04.01.14	747.4	Q26.9	04.01.00	Superior caval vein (SVC) abnormality,
Right superior caval vein (SVC) connecting to left-sided atrium,	to 140	04.01.10	747.4	Q26.8	04.01.00	Superior caval vein (SVC) abnormality,
Right superior caval vein (SVC) connecting to coronary sinus,	to 1	04.01.23	747.4	Q26.8	04.01.00	Superior caval vein (SVC) abnormality,
Right superior caval vein (SVC) connecting to coronary sinus to right-sided atrium,	to 1	04.01.24	747.4	Q26.8	04.01.00	Superior caval vein (SVC) abnormality,
Right superior caval vein (SVC) connecting to coronary sinus to left-sided atrium,	to 1	04.01.12	747.4	Q26.8	04.01.00	Superior caval vein (SVC) abnormality,
Right superior caval vein (SVC) connecting to both atriums,	to 1	04.01.15	747.4	Q26.8	04.01.00	Superior caval vein (SVC) abnormality,
Bilateral superior caval veins (SVC),	to 1	04.01.03	747.4	Q26.8	04.01.00	Superior caval vein (SVC) abnormality,
Atriac right superior caval vein (SVC),	to 1	04.01.04	747.4	Q26.8	04.01.00	Superior caval vein (SVC) abnormality,
Absent right superior caval vein (SVC),	to 1	04.01.05	747.4	Q26.8	04.01.00	Superior caval vein (SVC) abnormality,
Right superior caval vein aneurysm,	to 1	04.01.27	747.4	Q26.8	04.01.00	Superior caval vein (SVC) abnormality,
Saccular dilation of right superior caval vein (SVC),	to 1	04.01.11	747.4	Q26.8	04.01.00	Superior caval vein (SVC) abnormality,
Absent bridging (innominate) vein,	to 1	04.05.01	747.4	Q26.8	04.01.00	Superior caval vein (SVC) abnormality,
Innominate vein present,	to 1	04.01.18				not relevant
Superior caval vein (SVC) stenosis - congenital,	to 960	04.01.07	747.4	Q26.0	04.01.00	Superior caval vein (SVC) abnormality,
Superior caval vein (SVC) occlusion - congenital,	to 3220	04.01.17	747.4	Q26.8	04.01.00	Superior caval vein (SVC) abnormality,
Myocardial sleeve extension into superior caval vein (SVC),	to 1	04.01.32	747.4	Q26.8	04.01.00	Superior caval vein (SVC) abnormality,

Left superior caval vein and abnormalities

Left superior caval vein (SVC),	to 1	04.01.25	747.4	Q26.8	04.01.00	Superior caval vein (SVC) abnormality,
Persistent left superior caval vein	to 1	04.01.31	747.4	Q26.8	04.01.00	Superior caval vein (SVC) abnormality,
Left superior caval vein (SVC) persisting to coronary sinus,	to 1	04.01.01	747.4	Q26.1	04.01.01	Left superior caval vein (SVC) persisting to coronary sinus,
Left superior caval vein (SVC) persisting to coronary sinus to right-sided atrium,	to 1	04.01.26	747.4	Q26.1	04.01.01	Left superior caval vein (SVC) persisting to coronary sinus,
Left superior caval vein (SVC) persisting to left-sided atrium,	to 1	04.01.02	747.4	Q26.1	04.01.00	Superior caval vein (SVC) abnormality,
Left superior caval vein (SVC) connecting to right-sided atrium,	to 1	04.01.13	747.4	Q26.8	04.01.00	Superior caval vein (SVC) abnormality,
Left superior caval vein (SVC) connecting to both atriums,	to 1	04.01.16	747.4	Q26.8	04.01.00	Superior caval vein (SVC) abnormality,
Atriac left superior caval vein (SVC),	to 1	04.01.19	747.4	Q26.8	04.01.00	Superior caval vein (SVC) abnormality,
Left superior caval vein aneurysm,	to 1	04.01.28	747.4	Q26.8	04.01.00	Superior caval vein (SVC) abnormality,
Saccular dilation of left superior caval vein (SVC),	to 1	04.01.20	747.4	Q26.8	04.01.00	Superior caval vein (SVC) abnormality,

Inferior caval vein (IVC) abnormalities

Inferior caval vein (IVC) abnormality,	to 1	04.03.00	747.4	Q26.9	04.03.00	Inferior caval vein (IVC) abnormality,
Inferior caval vein (IVC) abnormality: congenital,	to 1	04.03.08	747.4	Q26.8	04.03.00	Inferior caval vein (IVC) abnormality,
Inferior caval vein (IVC) to right atrium,	to 1	04.00.02				not relevant
Left inferior caval vein (IVC) and abnormalities	to 81	not relevant				
Right inferior caval vein (IVC) abnormality,	to 1	04.03.15	747.4	Q26.9	04.03.00	Inferior caval vein (IVC) abnormality,
Right inferior caval vein (IVC) connecting to right-sided atrium,	to 140	04.03.26	747.4	Q26.8	04.03.00	Inferior caval vein (IVC) abnormality,
Right inferior caval vein (IVC) connecting to left-sided atrium,	to 140	04.03.04	747.4	Q26.8	04.03.00	Inferior caval vein (IVC) abnormality,
Interrupted right inferior caval vein (IVC),	to 1	04.03.18	747.4	Q26.8	04.03.00	Inferior caval vein (IVC) abnormality,
Inferior caval vein (IVC) connecting to both atriums,	to 1	04.03.14	747.4	Q26.8	04.03.00	Inferior caval vein (IVC) abnormality,
Right inferior caval vein (IVC) connecting to both atriums,	to 1	04.03.27	747.4	Q26.8	04.03.00	Inferior caval vein (IVC) abnormality,
Inferior caval vein (IVC) interruption (absent suprarenal segment) with azygos continuation,	to 1	04.03.10	747.4	Q26.8	04.03.10	Inferior caval vein (IVC) interruption (absent suprarenal segment) with azygos continuation,
Azygos continuation of inferior caval vein (IVC) (absent suprarenal segment) to left superior caval vein (SVC),	to 1	04.03.19	747.4	Q26.8	04.03.10	Inferior caval vein (IVC) interruption (absent suprarenal segment) with azygos continuation,
Azygos continuation of inferior caval vein (IVC) (absent suprarenal segment) to right superior caval vein (SVC),	to 1	04.03.20	747.4	Q26.8	04.03.10	Inferior caval vein (IVC) interruption (absent suprarenal segment) with azygos continuation,
Left-sided azygos continuation of inferior caval vein (IVC) (absent suprarenal segment) to left superior caval vein (SVC),	to 1	04.03.01	747.4	Q26.8	04.03.10	Inferior caval vein (IVC) interruption (absent suprarenal segment) with azygos continuation,
Right-sided azygos continuation of inferior caval vein (IVC) (absent suprarenal segment) to right superior caval vein (SVC),	to 1	04.03.02	747.4	Q26.8	04.03.10	Inferior caval vein (IVC) interruption (absent suprarenal segment) with azygos continuation,
Inferior caval vein (IVC) interruption (absent suprarenal segment) with bilateral azygos continuation,	to 1	04.03.03	747.4	Q26.8	04.03.10	Inferior caval vein (IVC) interruption (absent suprarenal segment) with azygos continuation,
Inferior caval vein (IVC) connecting to coronary sinus,	to 1	04.03.05	747.4	Q26.8	04.03.00	Inferior caval vein (IVC) abnormality,
Inferior caval vein (IVC) stenosis - congenital,	to 960	04.03.06	747.4	Q26.0	04.03.00	Inferior caval vein (IVC) abnormality,
Inferior caval vein (IVC) occlusion - congenital,	to 1	04.03.17	747.4	Q26.0	04.03.00	Inferior caval vein (IVC) abnormality,
Inferior caval venous return streaming to left (pulmonary venous) atrium,	to 1	04.03.28	747.4	Q26.0	04.03.00	Inferior caval vein (IVC) abnormality,
Myocardial sleeve extension into inferior caval vein (IVC),	to 1	04.03.31	747.4	Q26.8	04.03.00	Inferior caval vein (IVC) abnormality,

Left inferior caval vein (IVC) and abnormalities

Left inferior caval vein (IVC),	to 1	04.03.23	747.4	Q26.9	04.03.00	Inferior caval vein (IVC) abnormality,
Left inferior caval vein (IVC) abnormality,	to 1	04.03.16	747.4	Q26.9	04.03.00	Inferior caval vein (IVC) abnormality,
Left inferior caval vein (IVC) connecting to right-sided atrium,	to 1	04.03.12	747.4	Q26.8	04.03.00	Inferior caval vein (IVC) abnormality,
Left inferior caval vein (IVC) connecting to left-sided atrium,	to 1	04.03.13	747.4	Q26.8	04.03.00	Inferior caval vein (IVC) abnormality,
Left inferior caval vein (IVC) connecting to both atriums,	to 1	04.03.24	747.4	Q26.8	04.03.00	Inferior caval vein (IVC) abnormality,
Interrupted left inferior caval vein (IVC),	to 1	04.03.25	747.4	Q26.8	04.03.00	Inferior caval vein (IVC) abnormality,

Hepatic and portal venous abnormalities

Hepatic vein abnormality,	to 1	04.02.00	747.4	Q26.9	04.02.00	Hepatic vein abnormality,
Hepatic vein abnormality: congenital,	to 1	04.02.04	747.4	Q26.8	04.02.00	Hepatic vein abnormality,
Separate hepatic venous and inferior caval venous connections to heart,	to 1	04.02.06	747.4	Q26.9	04.02.00	Hepatic vein abnormality,
Hepatic veins: abnormal connection to atrium,	to 1	04.02.07	747.4	Q26.9	04.02.00	Hepatic vein abnormality,
Hepatic veins to right-sided atrium,	to 1	04.02.01	747.4	Q26.8	04.02.00	Hepatic vein abnormality,
Hepatic veins to left-sided atrium,	to 1	04.02.02	747.4	Q26.8	04.02.00	Hepatic vein abnormality,
Hepatic veins to bilateral atriums,	to 1	04.02.03	747.4	Q26.8	04.02.00	Hepatic vein abnormality,
Hepatic veins to coronary sinus,	to 1	04.02.05	747.4	Q26.8	04.02.00	Hepatic vein abnormality,
Portal vein absent,	to 1	04.05.06	747.4	Q26.5	04.05.00	Systemic vein abnormality: congenital,
Anomalous portal venous connection,	to 1	04.02.08	747.4	Q26.5	04.05.00	Systemic vein abnormality: congenital,
Congenital portosystemic venous shunt,	to 1	04.02.09	747.4	Q26.5	04.05.00	Systemic vein abnormality: congenital,
Congenital portosystemic venous shunt: extrahepatic portocaval,	to 1	04.02.10	747.4	Q26.5	04.05.00	Systemic vein abnormality: congenital,
Congenital portosystemic venous shunt: intrahepatic,	to 1	04.02.11	747.4	Q26.5	04.05.00	Systemic vein abnormality: congenital,

End of branch

Pulmonary venous abnormalities

Pulmonary vein abnormality,	to 94	04.08.00	747.4	Q26.9	04.08.00	Pulmonary vein abnormality,
Pulmonary vein abnormality: congenital,	to 94	04.08.04	747.4	Q26.8	04.08.00	Pulmonary vein abnormality,
Pulmonary venous connections normal,	to 1	04.00.03			not relevant	
Anomalous pulmonary venous connection,	to 1	04.08.07	747.4	Q26.4	04.08.00	Pulmonary vein abnormality,
Totally anomalous pulmonary venous connection,	to 90	04.08.05	747.4	Q26.2	04.08.05	Totally anomalous pulmonary venous connection,
Totally anomalous pulmonary venous connection: supracardiac,	to 90	04.08.00	747.4	Q26.2	04.08.00	Totally anomalous pulmonary venous connection: supracardiac,
Totally anomalous pulmonary venous connection: infracardiac,	to 90	04.08.10	747.4	Q26.2	04.08.10	Totally anomalous pulmonary venous connection: infracardiac,
Totally anomalous pulmonary venous connection: mixed,	to 90	04.08.20	747.4	Q26.2	04.08.20	Totally anomalous pulmonary venous connection: mixed,
Partially anomalous pulmonary venous connection(s),	to 86	not relevant				
Cor triatriatum (divided left atrium)	to 130	not relevant				
Obstructed pulmonary venous connection	to 87	not relevant				
Unobstructed pulmonary venous connection,	to 1	04.08.09			not relevant	
Persistent common pulmonary vein,	to 1	04.08.19	747.4	Q26.9	04.08.00	Pulmonary vein abnormality,
Pulmonary venous stenosis - congenital,	to 94	04.08.01	747.4	Q26.8	04.08.91	Pulmonary vein stenosis,
Pulmonary venous hypoplasia,	to 94	04.08.08	747.4	Q26.8	04.08.91	Pulmonary vein stenosis,
Pulmonary vein dilation,	to 94	04.08.21	747.4	Q26.9	04.08.00	Pulmonary vein abnormality,
Pulmonary vein(s) atresia: congenital,	to 94	04.08.02	747.4	Q26.3	04.08.91	Pulmonary vein stenosis,
Partially anomalous pulmonary venous connection: Scimitar syndrome,	to 94	01.01.16	747.4	Q26.8	01.01.16	Partially anomalous pulmonary venous connection: Scimitar syndrome,
Partially anomalous pulmonary venous connection: Scimitar syndrome with additional anomalous pulmonary venous connection(s),	to 94	04.08.22	747.4	Q26.8	01.01.16	Partially anomalous pulmonary venous connection: Scimitar syndrome,
Partially anomalous pulmonary venous connection: Scimitar syndrome without additional anomalous pulmonary venous connections,	to 94	04.08.23	747.4	Q26.8	01.01.16	Partially anomalous pulmonary venous connection: Scimitar syndrome,
Alveolar capillary dysplasia with pulmonary venous misalignment,	to 1	04.08.24	747.4	Q26.9	04.08.00	Pulmonary vein abnormality,
Mycardial sleeve extension into pulmonary veins,	to 1	04.08.25	747.4	Q26.8	04.08.00	Pulmonary vein abnormality,
Scimitar associated lung abnormalities	to 21	not relevant				

Partially anomalous pulmonary venous connection

Partially anomalous pulmonary venous connection(s),	to 90	04.07.01	747.4	Q26.3	04.07.01	Partially anomalous pulmonary venous connection(s),
Partially anomalous pulmonary venous connection(s) of entire right lung,	to 90	04.07.02	747.4	Q26.3	04.07.01	Partially anomalous pulmonary venous connection(s),
Partially anomalous pulmonary venous connection(s) of entire left lung,	to 90	04.07.03	747.4	Q26.3	04.07.01	Partially anomalous pulmonary venous connection(s),
Partially anomalous pulmonary venous connection of part of right lung,	to 90	04.07.04	747.4	Q26.3	04.07.01	Partially anomalous pulmonary venous connection(s),
Partially anomalous pulmonary venous connection of part of left lung,	to 90	04.07.05	747.4	Q26.3	04.07.01	Partially anomalous pulmonary venous connection(s),
Partially anomalous pulmonary venous connection with anomalous veins first connecting to venous confluence,	to 90	04.07.07	747.4	Q26.3	04.07.01	Partially anomalous pulmonary venous connection(s),
Partially anomalous pulmonary venous connection(s) related abnormality,	to 1	04.07.06	747.4	Q26.3	01.01.39	Cardiac abnormality,

Obstructed pulmonary venous connection

Obstructed pulmonary venous connection(s),	to 960	04.08.06	747.4	Q26.4	04.08.06	Obstructed pulmonary venous connection(s),
Obstructed pulmonary venous connection due to intrinsic narrowing,	to 960	04.08.13	747.4	Q26.4	04.08.06	Obstructed pulmonary venous connection(s),
Obstructed pulmonary venous connection due to extrinsic compression,	to 960	04.08.11	747.4	Q26.4	04.08.06	Obstructed pulmonary venous connection(s),
Obstructed pulmonary venous connection due to extrinsic compression between left pulmonary artery & bronchus,	to 960	04.08.16	747.4	Q26.4	04.08.06	Obstructed pulmonary venous connection(s),
Obstructed pulmonary venous connection due to extrinsic compression between right pulmonary artery & trachea,	to 960	04.08.17	747.4	Q26.4	04.08.06	Obstructed pulmonary venous connection(s),
Obstructed pulmonary venous connection due to extrinsic compression at diaphragm,	to 960	04.08.18	747.4	Q26.4	04.08.06	Obstructed pulmonary venous connection(s),
Obstructed pulmonary venous connection at interatrial communication,	to 960	04.08.12	747.4	Q26.4	04.08.06	Obstructed pulmonary venous connection(s),
Obstructed pulmonary venous connection at coronary sinus orifice,	to 960	04.08.14	747.4	Q26.4	04.08.06	Obstructed pulmonary venous connection(s),
Obstructed pulmonary venous connection related abnormality,	to 1	04.08.15	747.4	Q26.4	01.01.39	Cardiac abnormality,

Localisation & characteristics of anomalous pulmonary venous connection

Location of anomalous pulmonary venous connection unspecified-unknown,	to 1	04.06.01			not relevant	
Supracardiac location of anomalous pulmonary venous connection	to 91	not relevant				
Infracardiac location of anomalous pulmonary venous connection	to 92	not relevant				
Infracardiac location of anomalous pulmonary venous connection	to 93	not relevant				
Normally connected pulmonary vein,	to 94	04.06.34			not relevant	
Mixed form of anomalous pulmonary venous connections,	to 1	04.06.31	747.4	Q26.4	04.08.00	Pulmonary vein abnormality,
Mixed form of anomalous pulmonary venous connections with one confluence,	to 1	04.06.32	747.4	Q26.4	04.08.00	Pulmonary vein abnormality,
Mixed form of anomalous pulmonary venous connections with two confluences,	to 1	04.06.33	747.4	Q26.4	04.08.00	Pulmonary vein abnormality,
Pulmonary venous confluence in vertical orientation,	to 1	04.06.35	747.4	Q26.8	04.08.00	Pulmonary vein abnormality,
Pulmonary venous confluence in horizontal orientation,	to 1	04.06.36	747.4	Q26.8	04.08.00	Pulmonary vein abnormality,
Pulmonary venous confluence in direct proximity to left atrium,	to 1	04.06.37	747.4	Q26.8	04.08.00	Pulmonary vein abnormality,
Pulmonary venous confluence remote from left atrium,	to 1	04.06.38	747.4	Q26.8	04.08.00	Pulmonary vein abnormality,

Supracardiac localisation

Supracardiac location of anomalous pulmonary venous connection(s),	to 1	04.06.02			04.08.00	Pulmonary vein abnormality,
Supracardiac location of anomalous pulmonary venous connection(s) to left-sided vertical vein,	to 1	04.06.03			04.08.00	Pulmonary vein abnormality,
Supracardiac location of anomalous pulmonary venous connection(s) to right-sided vertical vein,	to 1	04.06.08			04.08.00	Pulmonary vein abnormality,
Supracardiac location of anomalous pulmonary venous connection(s) to right superior caval vein (SVC),	to 1	04.06.04			04.08.00	Pulmonary vein abnormality,
Supracardiac location of anomalous pulmonary venous connection(s) to left superior caval vein (SVC),	to 1	04.06.09			04.08.00	Pulmonary vein abnormality,
Supracardiac location of anomalous pulmonary venous connection(s) to azygos vein,	to 1	04.06.05			04.08.00	Pulmonary vein abnormality,
Supracardiac location of anomalous pulmonary venous connection(s) to hemiazygos vein,	to 1	04.06.06			04.08.00	Pulmonary vein abnormality,

Infracardiac localisation

Infracardiac location of anomalous pulmonary venous connection(s),	to 1	04.06.11			04.08.00	Pulmonary vein abnormality,
Infracardiac location of anomalous pulmonary venous connection(s) to coronary sinus,	to 1	04.06.12			04.08.00	Pulmonary vein abnormality,
Infracardiac location of anomalous pulmonary venous connection(s) to right atrium,	to 1	04.06.13			04.08.00	Pulmonary vein abnormality,
Infracardiac location of anomalous pulmonary venous connection(s) to bilateral isomeric atriums,	to 1	04.06.14			04.08.00	Pulmonary vein abnormality,
Infracardiac location of anomalous pulmonary venous connection(s) to midline with isomeric atriums,	to 1	04.06.16			04.08.00	Pulmonary vein abnormality,

Infracardiac localisation

Infracardiac location of anomalous pulmonary venous connection(s),	to 1	04.06.21			04.08.00	Pulmonary vein abnormality,
Infracardiac location of anomalous pulmonary venous connection(s) to portal system,	to 1	04.06.22			04.08.00	Pulmonary vein abnormality,
Infracardiac location of anomalous pulmonary venous connection(s) to inferior caval vein (VC),	to 1	04.06.23			04.08.00	Pulmonary vein abnormality,
Infracardiac location of anomalous pulmonary venous connection(s) to patent venous duct,	to 1	04.06.25			04.08.00	Pulmonary vein abnormality,
Infracardiac location of anomalous pulmonary venous connection(s) to hepatic vein,	to 1	04.06.26			04.08.00	Pulmonary vein abnormality,
Infracardiac location of anomalous pulmonary venous connection(s) with two descending veins,	to 1	04.06.27			04.08.00	Pulmonary vein abnormality,

Specific pulmonary vein(s) involved in abnormality or procedure - qualifiers

- all pulmonary veins,	to 1	Q1.01.51			not relevant	
- right pulmonary vein(s),	to 1	Q1.01.52			not relevant	
- right upper pulmonary vein,	to 1	Q1.01.53			not relevant	
- right lower pulmonary vein,	to 1	Q1.01.54			not relevant	
- right common pulmonary vein,	to 1	Q1.01.51			not relevant	
- left pulmonary vein(s),	to 1	Q1.01.55			not relevant	
- left upper pulmonary vein,	to 1	Q1.01.56			not relevant	
- left lower pulmonary vein,	to 1	Q1.01.57			not relevant	
- left common pulmonary vein,	to 1	Q1.01.62			not relevant	
- common pulmonary vein,	to 1	Q1.01.58			not relevant	
- proximal end,	to 960	Q1.56.01			not relevant	
- distal end,	to 960	Q1.56.02			not relevant	
- pulmonary vein (DESCRIBE),	to 1	Q1.01.59			not relevant	
- with additional anomalous pulmonary venous connection,	to 1	Q1.01.60			not relevant	
Cause & type of pulmonary vein stenosis or obstruction	to 958	not relevant				
no entry	to 1	not relevant				

End of branch

Coronary sinus & coronary vein abnormalities

Cardiac (coronary) vein abnormalities	to 97	not relevant				
Coronary sinus abnormality,	to 1	04.04.00	746.8	Q24.5	04.04.00	Coronary sinus abnormality,
Coronary sinus abnormality: congenital,	to 1	04.04.05	746.8	Q24.5	04.04.00	Coronary sinus abnormality,
Coronary sinus intact,	to 1	04.04.16			not relevant	
Coronary sinus enlarged,	to 1	04.04.17	746.8	Q24.5	04.04.00	Coronary sinus abnormality,
Interatrial communication (ASD) through coronary sinus orifice,	to 966	05.05.03	745.5	Q21.1	05.05.03	Interatrial communication (ASD) through coronary sinus orifice,
Coronary sinus defect in left atrium: unroofed,	to 1	04.04.13	746.8	Q24.5	04.04.00	Coronary sinus abnormality,

Coronary sinus defect in left atrium: partially unroofed,	to 1	04.04.01	746.8	Q24.5	04.04.00	Coronary sinus abnormality,
Coronary sinus defect in left atrium: completely unroofed,	to 1	04.04.02	746.8	Q24.5	04.04.00	Coronary sinus abnormality,
Coronary sinus orifice atretic or stenosed,	to 1	04.04.14	746.8	Q24.5	04.04.00	Coronary sinus abnormality,
Coronary sinus orifice atretic,	to 1	04.04.03	746.8	Q24.5	04.04.00	Coronary sinus abnormality,
Coronary sinus ostial stenosis,	to 960	04.04.04	746.8	Q24.5	04.04.00	Coronary sinus abnormality,
Coronary sinus to left ventricle fistula,	to 1	04.04.06	746.8	Q24.5	04.04.00	Coronary sinus abnormality,
Coronary sinus aneurysm,	to 1	04.04.07	746.8	Q24.5	04.04.00	Coronary sinus abnormality,
Coronary sinus absent,	to 1	04.04.09	746.8	Q24.5	04.04.00	Coronary sinus abnormality,
Coronary sinus drainage cephalad to right superior caval vein (SVC),	to 1	04.04.10	746.8	Q24.5	04.04.00	Coronary sinus abnormality,
Coronary sinus drainage cephalad to left superior caval vein (SVC),	to 1	04.04.11	746.8	Q24.5	04.04.00	Coronary sinus abnormality,
Coronary sinus diverticulum,	to 1	04.04.15	746.8	Q24.5	04.04.00	Coronary sinus abnormality,

97 Cardiac (coronary) vein abnormalities

Cardiac (coronary) vein abnormality: congenital,	to 1	04.04.08	746.8	Q24.5	01.01.39	Cardiac abnormality,
Cardiac venous return anomalous,	to 1	04.04.12	746.8	Q24.5	01.01.39	Cardiac abnormality,
Anterior (right ventricular) cardiac vein(s) abnormality: congenital,	to 1	04.04.18	746.8	Q24.5	01.01.39	Cardiac abnormality,
Posterior cardiac vein(s) of left ventricle abnormality: congenital,	to 1	04.04.19	746.8	Q24.5	01.01.39	Cardiac abnormality,
Middle cardiac vein abnormality: congenital,	to 1	04.04.20	746.8	Q24.5	01.01.39	Cardiac abnormality,
Great cardiac vein abnormality: congenital,	to 1	04.04.21	746.8	Q24.5	01.01.39	Cardiac abnormality,

End of branch _____

98 Other systemic vein abnormalities

Systemic vein abnormality,	to 3220	04.05.09	747.4	Q26.8	04.05.00	Systemic vein abnormality: congenital,
Systemic vein abnormality: congenital,	to 3220	04.05.00	747.4	Q26.8	04.05.00	Systemic vein abnormality: congenital,
Systemic great vein abnormality: congenital,	to 3220	04.05.16	747.4	Q26.9	04.05.00	Systemic vein abnormality: congenital,
Systemic vein obstruction,	to 958	10.30.09	459.2	87.1	10.30.09	Systemic vein obstruction,
Systemic vein aneurysm,	to 3220	04.05.10	459.2	87.1	04.05.00	Systemic vein abnormality: congenital,
Systemic vein atresia,	to 3220	04.05.11	459.2	87.1	10.30.09	Systemic vein obstruction,
Venous duct patent (ductus venosus),	to 1	04.05.02	747.4	Q26.8	not relevant	not relevant
Venous duct closed (ductus venosus),	to 1	04.05.03	747.4	Q26.8	not relevant	not relevant
Venous duct absent,	to 1	04.05.05	747.4	Q26.8	04.05.00	Systemic vein abnormality: congenital,
Venous duct absent with direct connection of umbilical vein to inferior caval vein (IVC),	to 1	04.05.12	747.4	Q26.8	04.05.00	Systemic vein abnormality: congenital,
Venous duct absent with direct connection of umbilical vein to renal vein,	to 1	04.05.13	747.4	Q26.8	04.05.00	Systemic vein abnormality: congenital,
Venous duct absent with direct connection of umbilical vein to right atrium,	to 1	04.05.14	747.4	Q26.8	04.05.00	Systemic vein abnormality: congenital,
Venous duct (ductus venosus) abnormally,	to 1	04.05.04	747.4	Q26.8	04.05.00	Systemic vein abnormality: congenital,
Congenital phlebectasia,	to 3220	04.05.15	747.6	Q27.4	04.05.00	Systemic vein abnormality: congenital,

End of branch _____

100 Atrial and atrial septal abnormalities

Right atrial abnormalities	to 110	not relevant				
Left atrial abnormalities	to 125	not relevant				
Atrial septal abnormalities	to 140	not relevant				
Atrial abnormality,	to 1	05.00.00	746.9	Q20.8	01.01.39	Cardiac abnormality,
Juxtaposition of atrial appendages,	to 1	05.00.01	746.9	Q20.8	01.01.39	Cardiac abnormality,

110 Right atrial abnormalities

Right atrial abnormality,	to 1	05.01.00	746.9	Q20.8	05.01.00	Right atrial abnormality,
Right atrial abnormality: congenital,	to 1	05.01.13	746.9	Q20.8	05.01.00	Right atrial abnormality,
Eustachian valve prominent (anomalous valve of inferior caval vein (IVC)),	to 1	05.01.02	746.9	Q20.8	05.01.00	Right atrial abnormality,
Obstructive Eustachian valve (divided right atrium) (cor triatriatum dexter),	to 1	05.01.21	746.9	Q20.8	05.01.00	Right atrial abnormality,
Prolapse of Eustachian valve,	to 1	05.01.25	746.9	Q20.8	05.01.00	Right atrial abnormality,
Eustachian valve prolapsing through tricuspid valve,	to 1	05.01.22	746.9	Q20.8	05.01.00	Right atrial abnormality,
Eustachian valve prolapsing through atrial septum,	to 1	05.01.23	746.9	Q20.8	05.01.00	Right atrial abnormality,
Anomalous valve of coronary sinus (Thebesian valve),	to 1	05.01.03	746.9	Q20.8	05.01.00	Right atrial abnormality,
Absence of coronary sinus (Thebesian valve),	to 1	05.01.24	746.9	Q20.8	05.01.00	Right atrial abnormality,
Filigreed network of venous valves (Chiari),	to 1	05.01.04	746.9	Q20.8	05.01.00	Right atrial abnormality,
Right atrial appendage absent,	to 1	05.01.05	746.8	Q20.8	05.01.00	Right atrial abnormality,
Right atrial appendage (left) juxtaposition,	to 1	05.01.06	746.8	Q20.8	05.01.00	Right atrial abnormality,
Right atrial appendage aneurysm,	to 1	05.01.07	746.8	Q20.8	05.01.00	Right atrial abnormality,
Right atrial dilation,	to 962	05.01.08	429.3	51.7	15.10.10	Right atrial abnormality: acquired,
Right atrial hypoplasia,	to 962	05.01.09	429.3	51.7	15.10.10	Right atrial abnormality: acquired,
Right atrial hypertrophy,	to 962	05.01.10	429.3	51.7	15.10.10	Right atrial abnormality: acquired,
Primary right atrial endocardial fibroelastosis,	to 1	05.01.11	425.3	M2.4	10.10.12	Endocardial fibroelastosis,
Giant right atrium,	to 1	05.01.12	429.3	51.7	15.10.10	Right atrial abnormality: acquired,

End of branch _____

125 Left atrial abnormalities

Left atrial abnormality,	to 1	05.02.00	746.9	Q20.8	05.02.00	Left atrial abnormality,
Left atrial abnormality: congenital,	to 1	05.02.11	746.9	Q20.8	05.02.00	Left atrial abnormality,
Cor triatriatum (divided left atrium),	to 130	not relevant				
Supravalar mitral ring,	to 960	05.02.02	746.8	Q20.8	05.02.02	Supravalar mitral ring,
Left atrial appendage absent,	to 1	05.02.03	746.8	Q20.8	05.02.00	Left atrial abnormality,
Left atrial appendage (right) juxtaposition,	to 1	05.02.04	746.8	Q20.8	05.02.00	Left atrial abnormality,
Left atrial appendage aneurysm,	to 1	05.02.05	746.8	Q20.8	05.02.00	Left atrial abnormality,
Left atrial dilation,	to 962	05.02.06	429.3	51.7	15.10.20	Left atrial abnormality: acquired,
Left atrial hypoplasia,	to 962	05.02.07	429.3	51.7	15.10.20	Left atrial abnormality: acquired,
Left atrial hypertrophy,	to 962	05.02.08	429.3	51.7	15.10.20	Left atrial abnormality: acquired,
Primary left atrial endocardial fibroelastosis,	to 1	05.02.09	425.3	M2.4	10.10.12	Endocardial fibroelastosis,
Giant left atrium,	to 1	05.02.10	429.3	51.7	15.10.20	Left atrial abnormality: acquired,

130 Cor triatriatum (divided left atrium)

Cor triatriatum (divided left atrium),	to 1	05.02.01	746.8	Q24.2	05.02.01	Cor triatriatum (divided left atrium),
Cor triatriatum (divided left atrium) - all pulmonary veins to proximal chamber & then to left atrium,	to 1	05.02.21	746.8	Q24.2	05.02.01	Cor triatriatum (divided left atrium),
Cor triatriatum (divided left atrium) - all pulmonary veins to proximal chamber draining to left atrium + additional pulmonary venous chamber communication,	to 1	05.02.22	746.8	Q24.2	05.02.01	Cor triatriatum (divided left atrium),
Cor triatriatum (divided left atrium) - all pulmonary veins to proximal chamber & then to left atrium + pulmonary venous chamber communication to right atrium,	to 1	05.02.23	746.8	Q24.2	05.02.01	Cor triatriatum (divided left atrium),
Cor triatriatum (divided left atrium) - all pulmonary veins to proximal chamber & then to left atrium + pulmonary venous chamber extracardiac communication,	to 1	05.02.24	746.8	Q24.2	05.02.01	Cor triatriatum (divided left atrium),
Cor triatriatum (divided left atrium) - all pulmonary veins to proximal chamber but not to left atrium (imperforate),	to 1	05.02.25	746.8	Q24.2	05.02.01	Cor triatriatum (divided left atrium),
Cor triatriatum (divided left atrium) - all pulmonary veins to proximal chamber but not to left atrium (imperforate) + pulmonary venous chamber communication to right atrium,	to 1	05.02.26	746.8	Q24.2	05.02.01	Cor triatriatum (divided left atrium),
Cor triatriatum (divided left atrium) - all pulmonary veins to proximal chamber but not to left atrium (imperforate) + pulmonary venous chamber extracardiac communication,	to 1	05.02.27	746.8	Q24.2	05.02.01	Cor triatriatum (divided left atrium),
Cor triatriatum (divided left atrium) - some pulmonary veins to proximal chamber,	to 1	05.02.34	746.8	Q24.2	05.02.01	Cor triatriatum (divided left atrium),
Cor triatriatum (divided left atrium) - some pulmonary veins to proximal chamber & then to left atrium,	to 1	05.02.28	746.8	Q24.2	05.02.01	Cor triatriatum (divided left atrium),
Cor triatriatum (divided left atrium) - some pulmonary veins to proximal chamber & then to left atrium + other veins normal,	to 1	05.02.30	746.8	Q24.2	05.02.01	Cor triatriatum (divided left atrium),
Cor triatriatum (divided left atrium) - some pulmonary veins to proximal chamber & then to left atrium + other veins anomalous (PAPVC),	to 1	05.02.31	746.8	Q24.2	05.02.01	Cor triatriatum (divided left atrium),
Cor triatriatum (divided left atrium) - some pulmonary veins to proximal chamber & then to right atrium,	to 1	05.02.35	746.8	Q24.2	05.02.01	Cor triatriatum (divided left atrium),
Cor triatriatum (divided left atrium) - some pulmonary veins to proximal chamber & then to right atrium + other veins normal,	to 1	05.02.36	746.8	Q24.2	05.02.01	Cor triatriatum (divided left atrium),
Cor triatriatum (divided left atrium) - some pulmonary veins to proximal chamber & then to right atrium + other veins anomalous (PAPVC),	to 1	05.02.37	746.8	Q24.2	05.02.01	Cor triatriatum (divided left atrium),
Cor triatriatum (divided left atrium) - outlet of proximal chamber to left atrium restrictive,	to 960	05.02.32	746.8	Q24.2	05.02.01	Cor triatriatum (divided left atrium),
Cor triatriatum (divided left atrium) - outlet of proximal chamber to left atrium nonrestrictive,	to 1	05.02.33	746.8	Q24.2	05.02.01	Cor triatriatum (divided left atrium),
Cor triatriatum (divided left atrium) related abnormality,	to 1	05.02.29	746.8	Q24.2	01.01.39	Cardiac abnormality,

End of branch _____

140 Atrial septal abnormalities

Atrial septum abnormality,	to 1	05.03.00	745.5	Q21.9	05.03.00	Atrial septum abnormality,
Atrial septum abnormality: congenital,	to 1	05.07.01	745.5	Q21.8	05.03.00	Atrial septum abnormality,
Intact atrial septum (no interatrial communication),	to 1	05.03.10			05.03.10	Intact atrial septum (no interatrial communication),
Interatrial communication (ASD),	to 966	05.04.01	745.5	Q21.1	05.04.01	Interatrial communication (ASD),
Patent foramen ovale (PFO),	to 1	05.03.01	745.5	Q21.1	05.03.01	Patent foramen ovale (PFO),
Premature closure of foramen ovale,	to 1	05.03.02	429.9	51.8	05.03.00	Atrial septum abnormality,
Premature restriction of foramen ovale,	to 1	05.03.11	429.9	51.8	05.03.00	Atrial septum abnormality,
Foramen ovale valvar aneurysm,	to 1	05.03.03	745.5	Q21.8	05.03.00	Atrial septum abnormality,
Spontaneous closure of foramen ovale,	to 1	05.03.04	V13.6	Z87.7	05.04.03	Spontaneous closure of atrial septal defect (ASD) within oval fossa (secundum),
Atrial septal defect (ASD) within oval fossa (secundum),	to 142	05.04.02	745.5	Q21.1	05.04.02	Atrial septal defect (ASD) within oval fossa (secundum),
Atrial septal defect (ASD) within oval fossa (secundum): non-fenestrated,	to 142	05.04.04	745.5	Q21.1	05.04.02	Atrial septal defect (ASD) within oval fossa (secundum),
Atrial septal defect (ASD) within oval fossa (secundum): fenestrated,	to 142	05.04.05	745.5	Q21.1	05.04.02	Atrial septal defect (ASD) within oval fossa (secundum),
Atrial septal defect (ASD) within oval fossa (secundum): fenestrated (two defects),	to 142	05.04.06	745.5	Q21.1	05.04.02	Atrial septal defect (ASD) within oval fossa (secundum),
Atrial septal defect (ASD) within oval fossa (secundum): fenestrated (multiple defects),	to 142	05.04.07	745.5	Q21.1	05.04.02	Atrial septal defect (ASD) within oval fossa (secundum),
Spontaneous closure of interatrial communication,	to 1	05.04.13	V13.6	Z87.7		
Spontaneous closure of atrial septal defect (ASD) within oval fossa (secundum),	to 1	05.04.03	V13.6	Z87.7	05.04.03	Spontaneous closure of atrial septal defect (ASD) within oval fossa (secundum),
Interatrial communication (ASD): nonrestrictive,	to 1	05.04.08	745.5	Q21.1	05.04.01	Interatrial communication (ASD),
Interatrial communication (ASD): restrictive,	to 1	05.04.09	745.5	Q21.1	05.04.01	Interatrial communication (ASD),
Restrictive interatrial communication (ASD) with obligatory shunt,	to 966	05.03.05	745.5	Q21.1	05.04.01	Interatrial communication (ASD),
Sinus venosus defect (ASD),	to 966	05.05.00	745.5	Q21.1	05.05.00	Sinus venosus defect (ASD),

	Sinus venosus defect (ASD) with overriding superior caval vein (SVC) (superior defect),	to 966	05.05.01	745.5	Q21.1	05.05.00	Sinus venosus defect (ASD),
	Sinus venosus defect (ASD) with overriding inferior caval vein (IVC) (inferior defect),	to 966	05.05.02	745.5	Q21.1	05.05.00	Sinus venosus defect (ASD),
	Atrioventricular septal defect: isolated atrial component (primum ASD)(partial),	to 962	06.06.01	745.6	Q21.2	06.06.01	Atrioventricular septal defect: isolated atrial component (primum ASD)(partial),
	Common atrium (virtual absence of atrial septum),	to 966	05.06.01	745.6	Q21.2	05.06.01	Common atrium (virtual absence of atrial septum),
	Interatrial communication (ASD) through coronary sinus orifice,	to 966	05.05.03	745.5	Q21.1	05.05.03	Interatrial communication (ASD) through coronary sinus orifice,
	Thickened atrial septum,	to 1	05.04.15	745.5	Q21.8	05.03.00	Atrial septum abnormality,
	Characteristics of pulmonary-systemic blood flow (including Qp:Qs) - qualifiers	to 975	not relevant				
	Atrial septum malattachment	to 143	not relevant				
	Specific interatrial communication (ASD) size and function qualifier codes	to 966	not relevant				
142 @	Interatrial communication: margins for device closure - qualifiers						
	- interatrial communication with adequate rims for device closure,	to 966	Q1.04.01			not relevant	
	- interatrial communication with deficient rims for device closure,	to 966	Q1.04.06			not relevant	
	- interatrial communication with deficient inferior rim for device closure,	to 966	Q1.04.02			not relevant	
	- interatrial communication with deficient superior rim for device closure,	to 966	Q1.04.03			not relevant	
	- interatrial communication with deficient retro-aortic (anterosuperior) rim for device closure,	to 966	Q1.04.04			not relevant	
	- interatrial communication with deficient posterior rim for device closure,	to 966	Q1.04.05			not relevant	
	- interatrial communication margin (DESCRBE),	to 966	Q1.04.09			not relevant	
	no entry	to 966	not relevant				
143	Malattached atrial septum						
	Atrial septum malattachment,	to 1	05.04.14	745.5	Q21.8	05.03.00	Atrial septum abnormality,
	Atrial septum malattachment: superior aspect of septum primum to left & posterior (hypoplastic left heart type),	to 1	05.04.10	745.5	Q21.8	05.03.00	Atrial septum abnormality,
	Atrial septum malattachment: posterior aspect of septum primum to left (anomalous pulmonary venous connection type),	to 1	05.04.11	745.5	Q21.8	05.03.00	Atrial septum abnormality,
	Atrial septum malalignment with respect to flap valve (primum septum) and superior muscular rim of oval fossa,	to 1	05.04.12	745.5	Q21.8	05.03.00	Atrial septum abnormality,
150	Atrioventricular valves and atrioventricular septal defect						
	Tricuspid valvar and subvalvar abnormalities	to 160	not relevant				
	Ebstein's malformation of tricuspid valve,	to 167	not relevant				
	Mitral valvar, supravulvar and subvalvar abnormalities	to 170	not relevant				
	Atrioventricular septal defect (AVSD) & common atrioventricular junction	to 180	not relevant				
	Right & left atrioventricular valvar abnormalities in double inlet ventricle	to 190	not relevant				
	Congenital abnormality of atrioventricular valve or atrioventricular septum,	to 1	06.00.15	746.9	Q23.8	01.01.39	Cardiac abnormality,
	Two atrioventricular valves present,	to 1	06.00.00			not relevant	
	Overriding atrioventricular valve,	to 973	06.00.01	746.9	Q23.8	01.01.39	Cardiac abnormality,
	Overriding right-sided atrioventricular valve,	to 973	06.00.02	746.9	Q22.8	06.01.00	Tricuspid valvar abnormality,
	Overriding left-sided atrioventricular valve,	to 973	06.00.03	746.9	Q23.8	06.02.00	Mitral valvar abnormality,
	Straddling atrioventricular valve,	to 1	06.00.04	746.9	Q23.8	01.01.39	Cardiac abnormality,
	Straddling right-sided atrioventricular valve,	to 1	06.00.05	746.9	Q22.8	06.01.09	Straddling tricuspid valve,
	Straddling left-sided atrioventricular valve,	to 1	06.00.06	746.9	Q23.8	06.02.09	Straddling mitral valve,
	Atretic atrioventricular valve,	to 1	06.00.14	746.9	Q23.8	01.01.39	Cardiac abnormality,
	Imperforate atrioventricular valve,	to 1	06.00.07	746.9	Q23.8	01.01.39	Cardiac abnormality,
	Imperforate right-sided atrioventricular valve,	to 1	06.00.12	746.9	Q23.8	06.01.01	Tricuspid atresia,
	Imperforate left-sided atrioventricular valve,	to 1	06.00.13	746.9	Q23.8	06.02.01	Mitral atresia,
	Right-sided atrioventricular valvar regurgitation,	to 963	06.00.08	746.8	Q22.8	06.01.25	Tricuspid regurgitation: congenital,
	Right-sided atrioventricular valvar stenosis,	to 960	06.00.09	746.8	Q22.8	06.01.92	Tricuspid stenosis,
	Left-sided atrioventricular valvar regurgitation,	to 963	06.00.10	746.8	Q23.8	06.02.25	Mitral regurgitation: congenital,
	Left-sided atrioventricular valvar stenosis,	to 960	06.00.11	746.8	Q23.8	06.02.07	Mitral valvar stenosis: congenital,
160	Tricuspid valvar and subvalvar abnormalities						
	Tricuspid valvar abnormality,	to 1	06.01.00	746.9	Q22.9	06.01.00	Tricuspid valvar abnormality,
	Tricuspid valvar abnormality: congenital,	to 1	06.01.11	746.9	Q22.9	06.01.00	Tricuspid valvar abnormality,
	Tricuspid atresia,	to 73	06.01.01	746.1	Q22.4	06.01.01	Tricuspid atresia,
	Tricuspid valve atretic (imperforate): congenital,	to 1	06.01.02	746.1	Q22.4	06.01.01	Tricuspid atresia,
	Tricuspid valvar dysplasia,	to 1	06.01.03	746.9	Q22.8	06.01.03	Tricuspid valvar dysplasia,
	Tricuspid valve annulus hypoplasia,	to 955	06.01.04	746.9	Q22.4	06.01.92	Tricuspid stenosis,
	Tricuspid regurgitation: congenital,	to 963	06.01.25	746.8	Q22.8	06.01.25	Tricuspid regurgitation: congenital,
	Overriding tricuspid valve,	to 973	06.01.05	746.9	Q22.8	06.01.00	Tricuspid valvar abnormality,
	Tricuspid valve annulus dilation,	to 955	06.01.06	746.9	Q22.8	06.01.00	Tricuspid valvar abnormality,
	Tricuspid valvar stenosis: congenital,	to 960	06.01.07	746.1	Q22.4	06.01.92	Tricuspid stenosis,
	Straddling tricuspid valve,	to 1	06.01.09	746.9	Q22.8	06.01.09	Straddling tricuspid valve,
	Tricuspid leaflet abnormality	to 161	not relevant				
	Tricuspid subvalvar apparatus abnormality: congenital,	to 1	06.01.13	746.9	Q22.8	06.01.00	Tricuspid valvar abnormality,
	Supravulvar (including intravulvar) tricuspid ring,	to 1	06.01.14	746.9	Q22.8	06.01.00	Tricuspid valvar abnormality,
	Tricuspid valve chordal abnormality	to 162	not relevant				
	Tricuspid papillary muscle abnormality	to 165	not relevant				
161	Tricuspid leaflet abnormalities						
	Tricuspid leaflet abnormality,	to 163	06.01.31	746.9	Q22.9	06.01.00	Tricuspid valvar abnormality,
	Tricuspid leaflet abnormality: congenital,	to 163	06.01.37	746.9	Q22.9	06.01.00	Tricuspid valvar abnormality,
	Tricuspid leaflet(s) absent (unguarded orifice),	to 163	06.01.32	746.9	Q22.9	06.01.00	Tricuspid valvar abnormality,
	Double orifice of tricuspid valve,	to 174	06.01.33	746.8	Q22.9	06.01.00	Tricuspid valvar abnormality,
	Ebstein's malformation of tricuspid valve,	to 167	not relevant				
	Tricuspid valvar prolapse,	to 163	06.01.35	746.9	Q22.9	06.01.00	Tricuspid valvar abnormality,
	True slit of tricuspid leaflet,	to 163	06.01.36	746.9	Q22.9	06.01.00	Tricuspid valvar abnormality,
	Accessory tissue on tricuspid leaflet,	to 163	06.01.38	746.9	Q22.9	06.01.00	Tricuspid valvar abnormality,
	Tricuspid leaflet dysplasia (including mucoid thickening),	to 163	06.01.39	746.9	Q22.9	06.01.00	Tricuspid valvar abnormality,
	Tricuspid leaflet fenestration,	to 163	06.01.61	746.9	Q22.9	06.01.00	Tricuspid valvar abnormality,
	Tricuspid leaflet deficiency: congenital,	to 163	06.01.62	746.9	Q22.9	06.01.00	Tricuspid valvar abnormality,
	Tricuspid leaflet associated mass,	to 980	06.01.63	746.9	Q22.9	06.01.00	Tricuspid valvar abnormality,
	Tricuspid leaflet thickened,	to 163	06.01.64	746.9	Q22.9	06.01.00	Tricuspid valvar abnormality,
	Tricuspid leaflet gelatinous,	to 163	06.01.65	746.9	Q22.9	06.01.00	Tricuspid valvar abnormality,
	Tricuspid leaflet noncoapting,	to 163	06.01.66	746.9	Q22.9	06.01.00	Tricuspid valvar abnormality,
	Flail leaflet of tricuspid valve,	to 163	06.01.67	746.9	Q22.9	06.01.00	Tricuspid valvar abnormality,
162	Tricuspid valve chordal abnormalities						
	Tricuspid valve chordal abnormality,	to 163	06.01.41	746.9	Q24.8	06.01.00	Tricuspid valvar abnormality,
	Tricuspid valve chordal abnormality: congenital,	to 163	06.01.45	746.9	Q24.8	06.01.00	Tricuspid valvar abnormality,
	Arcade abnormality of tricuspid valve chords,	to 163	06.01.42	746.9	Q24.8	06.01.00	Tricuspid valvar abnormality,
	Tricuspid valve chords shortened - funnel valve,	to 163	06.01.43	746.9	Q24.8	06.01.00	Tricuspid valvar abnormality,
	Tricuspid valve chords elongated,	to 163	06.01.44	746.9	Q24.8	06.01.00	Tricuspid valvar abnormality,
	Tricuspid valve chords to infundibular septum,	to 163	06.01.46	746.9	Q24.8	06.01.00	Tricuspid valvar abnormality,
	Tricuspid valve chords abnormally attached,	to 163	06.01.47	746.9	Q24.8	06.01.00	Tricuspid valvar abnormality,
	Tricuspid valve chords: obstructed interchordal spaces,	to 163	06.01.48	746.9	Q24.8	06.01.00	Tricuspid valvar abnormality,
	Tricuspid valve primary chords absent,	to 163	06.01.49	746.9	Q24.8	06.01.00	Tricuspid valvar abnormality,
163 @	Specific tricuspid leaflet involved in abnormality - qualifiers						
	- septal tricuspid leaflet,	to 1	Q1.01.71			not relevant	
	- anterosuperior tricuspid leaflet,	to 1	Q1.01.72			not relevant	
	- inferoposterior-mural tricuspid leaflet,	to 1	Q1.01.73			not relevant	
	- leaflet(s) involved unknown or unspecified,	to 1	Q1.01.78			not relevant	
	no entry	to 1	not relevant				
165	Tricuspid papillary muscle abnormalities						
	Tricuspid papillary muscle abnormality,	to 166	06.01.51	746.9	Q24.8	06.01.00	Tricuspid valvar abnormality,
	Tricuspid papillary muscle abnormality: congenital,	to 166	06.01.54	746.9	Q24.8	06.01.00	Tricuspid valvar abnormality,
	Parachute malformation of tricuspid valve,	to 166	06.01.56	746.9	Q22.8	06.01.00	Tricuspid valvar abnormality,
	Tricuspid papillary muscle absent,	to 166	06.01.52	746.9	Q24.8	06.01.00	Tricuspid valvar abnormality,
	Tricuspid papillary muscle fused,	to 166	06.01.53	746.9	Q24.8	06.01.00	Tricuspid valvar abnormality,
	Tricuspid papillary muscle hypoplastic,	to 166	06.01.55	746.9	Q24.8	06.01.00	Tricuspid valvar abnormality,
166 @	Specific tricuspid papillary muscle involved in abnormality - qualifiers						
	- medial tricuspid papillary muscle,	to 1	Q1.01.74			not relevant	
	- inferior tricuspid papillary muscle,	to 1	Q1.01.75			not relevant	
	- anterior tricuspid papillary muscle,	to 1	Q1.01.76			not relevant	
	- papillary muscle(s) involved unknown or unspecified,	to 1	Q1.01.79			not relevant	
	no entry	to 1	not relevant				
167	Ebstein's malformation of tricuspid valve						
	Ebstein's malformation of tricuspid valve,	to 168	06.01.34	746.2	Q22.5	06.01.34	Ebstein's malformation of tricuspid valve,
	Ebstein's malformation of 'left-sided' tricuspid valve in discordant atrioventricular connections,	to 168	06.01.75	746.2	Q22.5	06.01.34	Ebstein's malformation of tricuspid valve,
	Ebstein's malformation with functional tricuspid stenosis,	to 960	06.01.76	746.2	Q22.5	06.01.34	Ebstein's malformation of tricuspid valve,
	Ebstein's malformation of tricuspid valve with atrialisation of right ventricular chamber,	to 951	06.01.77	746.2	Q22.5	06.01.34	Ebstein's malformation of tricuspid valve,
	Tricuspid regurgitation: congenital,	to 963	06.01.25	746.8	Q22.8	06.01.25	Tricuspid regurgitation: congenital,
	Ebstein's malformation in atrioventricular septal defect	to 190	not relevant				
	Ebstein's malformation in double inlet ventricle	to 200	not relevant				
	Ebstein's malformation of right atrioventricular valve in functionally univentricular heart,	to 168	06.01.78	746.2	Q22.5	06.01.34	Ebstein's malformation of tricuspid valve,
	Ebstein's malformation of left atrioventricular valve in functionally univentricular heart,	to 168	06.01.79	746.2	Q22.5	06.01.34	Ebstein's malformation of tricuspid valve,
	Ebstein's malformation of tricuspid valve related abnormality,	to 168	06.01.80	746.2	Q22.5	01.01.39	Cardiac abnormality,

168 @ Characteristics of tricuspid valve leaflets in Ebstein's malformation - Qualifiers

- anterosuperior tricuspid valve leaflet leading edge freely mobile,	to 1	Q1.01.81			not relevant
- anterosuperior tricuspid valve leaflet leading edge "hyperated" attachment,	to 1	Q1.01.82			not relevant
- anterosuperior tricuspid valve leaflet leading edge linear attachment,	to 1	Q1.01.83			not relevant
- anterosuperior tricuspid valve leaflet large + mobile + over 50% delaminated,	to 1	Q1.01.84			not relevant
- anterosuperior tricuspid valve leaflet small + mobile,	to 1	Q1.01.85			not relevant
- anterosuperior tricuspid valve leaflet motion restrictive,	to 1	Q1.01.86			not relevant
- anterosuperior tricuspid valve leaflet severely deformed + into right ventricular outflow tract,	to 1	Q1.01.87			not relevant
- anterosuperior tricuspid valve leaflet pathology,	to 1	Q1.01.89			not relevant
- septal tricuspid valve leaflet displaced + dysplastic,	to 1	Q1.01.90			not relevant
- inferoposterior-mural tricuspid valve leaflet displaced + dysplastic,	to 1	Q1.01.91			not relevant
no entry	to 1	not relevant			

End of branch

170 Mitral valvar, supravulvar and subvalvar abnormalities

Mitral valvar abnormality,	to 1	06.02.00	746.9	Q23.9	06.02.00	Mitral valvar abnormality,
Mitral valvar abnormality: congenital,	to 1	06.02.11	746.9	Q23.9	06.02.00	Mitral valvar abnormality,
Mitral atresia,	to 73	06.02.01	746.8	Q23.2	06.02.01	Mitral atresia,
Mitral valve atretic (imperforate),	to 1	06.02.02	746.8	Q23.2	06.02.01	Mitral atresia,
Mitral valvar dysplasia (mucoid thickening),	to 1	06.02.03	746.9	Q23.8	06.02.00	Mitral valvar abnormality,
Mitral valve annulus abnormality,	to 1	06.02.14	746.9	Q23.9	06.02.00	Mitral valvar abnormality,
Mitral valve annulus deformity: congenital,	to 1	06.02.15	746.9	Q23.9	06.02.00	Mitral valvar abnormality,
Mitral valve annulus hypoplasia,	to 955	06.02.04	746.9	Q23.2	06.02.07	Mitral valvar abnormality,
Mitral regurgitation: congenital,	to 983	06.02.25	746.8	Q23.3	06.02.07	Mitral regurgitation: congenital,
Overriding mitral valve,	to 973	06.02.05	746.9	Q23.8	06.02.00	Mitral valvar abnormality,
Mitral valve annulus dilation,	to 955	06.02.06	746.9	Q23.8	06.02.00	Mitral valvar abnormality,
Straddling mitral valve,	to 1	06.02.09	746.9	Q23.8	06.02.09	Straddling mitral valve,
Mitral stenosis: congenital,	to 960	06.02.16	746.5	Q23.2	06.02.07	Mitral valvar stenosis: congenital,
Mitral valvar stenosis: congenital,	to 960	06.02.07	746.5	Q23.2	06.02.07	Mitral valvar stenosis: congenital,
Supravulvar mitral stenosis: congenital,	to 960	06.02.17	746.9	Q23.9	06.02.00	Mitral valvar abnormality,
Supravulvar (including intravalvar) mitral ring,	to 960	05.02.02	746.8	Q20.8	05.02.02	Supravulvar (including intravalvar) mitral ring,
Left ventricular inflow obstruction due to left superior caval vein (SVC) to coronary sinus,	to 960	06.02.18	746.5	Q23.2	06.02.07	Mitral valvar stenosis: congenital,
Left ventricular inflow obstruction due to leftward displacement of interatrial septum,	to 960	06.02.19	746.5	Q23.2	06.02.07	Mitral valvar stenosis: congenital,
Mitral leaflet abnormality	to 171	not relevant				
Mitral subvalvar apparatus abnormality: congenital,	to 1	06.02.21	746.9	Q23.8	06.02.12	Mitral subvalvar apparatus abnormality,
Mitral subvalvar stenosis,	to 960	06.02.13	746.9	Q23.8	06.02.13	Mitral subvalvar stenosis,
Mitral subvalvar stenosis: congenital,	to 960	06.02.22	746.9	Q23.8	06.02.13	Mitral subvalvar stenosis,
Left ventricular submitral valvar aneurysm: congenital,	to 976	07.06.15	746.8	Q24.8	07.06.13	Left ventricular aneurysm,
Mitral valve chordal abnormality	to 172	not relevant				
Mitral papillary muscle abnormality	to 175	not relevant				

171 Mitral leaflet abnormalities

Mitral leaflet abnormality,	to 173	06.02.31	746.9	Q23.9	06.02.00	Mitral valvar abnormality,	
Mitral leaflet abnormality: congenital,	to 173	06.02.37	746.9	Q23.9	06.02.00	Mitral valvar abnormality,	
Mitral leaflet(s) absent (unguarded orifice),	to 173	06.02.32	746.9	Q23.9	Q23.3	06.02.00	Mitral valvar abnormality,
Double orifice of mitral valve,	to 174	06.02.33	746.8	Q23.9	06.02.00	Mitral valvar abnormality,	
Ebstein-like downward displacement of mitral valve,	to 173	06.02.34	746.9	Q23.9	06.02.00	Mitral valvar abnormality,	
Mitral valvar prolapse,	to 173	06.02.35	746.9	04.1	06.02.25	Mitral valvar prolapse,	
Mitral valvar prolapse: congenital,	to 173	06.02.72	746.9	04.1	06.02.25	Mitral valvar prolapse,	
Mitral valvar prolapse syndrome (Barlow-floppy valve),	to 1	06.02.66	746.9	04.1	06.02.35	Mitral valvar prolapse,	
Mitral valvar billowing leaflet (without prolapse),	to 1	06.02.71	746.9	Q23.9	06.02.00	Mitral valvar abnormality,	
True cleft of mitral leaflet (without common atrioventricular junction),	to 173	06.02.36	746.9	Q23.9	06.02.36	True cleft of mitral leaflet (without atrioventricular septal defect),	
Mitral valve anterior leaflet attached to septum,	to 1	06.02.38	746.9	Q23.9	06.02.00	Mitral valvar abnormality,	
Accessory tissue on mitral leaflet,	to 173	06.02.39	746.9	Q23.9	06.02.00	Mitral valvar abnormality,	
Accessory mitral valve leaflet,	to 1	06.02.65	746.9	Q23.9	06.02.00	Mitral valvar abnormality,	
Mitral leaflet dysplasia (mucoid thickening),	to 173	06.02.40	746.9	Q23.9	06.02.00	Mitral valvar abnormality,	
Mitral leaflet fenestration,	to 173	06.02.61	746.9	Q23.9	06.02.00	Mitral valvar abnormality,	
Mitral leaflet deficiency: congenital,	to 173	06.02.62	746.9	Q23.9	06.02.00	Mitral valvar abnormality,	
Mitral leaflet mitralvalvular ring,	to 173	06.02.63	746.5	Q23.2	06.02.07	Mitral valvar stenosis: congenital,	
Mitral leaflet associated mass,	to 980	06.02.64	746.9	Q23.9	06.02.00	Mitral valvar abnormality,	
Mitral leaflet thickened,	to 173	06.02.67	746.9	Q23.9	06.02.00	Mitral valvar abnormality,	
Mitral leaflet gelatinous,	to 173	06.02.68	746.9	Q23.9	06.02.00	Mitral valvar abnormality,	
Mitral leaflet noncoapting,	to 173	06.02.69	746.9	Q23.9	06.02.00	Mitral valvar abnormality,	
Flail leaflet of mitral valve,	to 173	06.02.70	746.9	Q23.9	06.02.00	Mitral valvar abnormality,	

172 Mitral valve chordal abnormalities

Mitral valve chordal abnormality,	to 173	06.02.41	746.9	Q24.8	06.02.12	Mitral subvalvar apparatus abnormality,
Mitral valve chordal abnormality: congenital,	to 173	06.02.45	746.9	Q24.8	06.02.12	Mitral subvalvar apparatus abnormality,
Arcade abnormality of mitral chords-papillary muscles,	to 173	06.02.42	746.9	Q24.8	06.02.12	Mitral subvalvar apparatus abnormality,
Mitral chords shortened - tunnel valve,	to 173	06.02.43	746.9	Q24.8	06.02.12	Mitral subvalvar apparatus abnormality,
Mitral chords elongated,	to 173	06.02.44	746.9	Q24.8	06.02.12	Mitral subvalvar apparatus abnormality,
Mitral chords absent,	to 173	06.02.46	746.9	Q24.8	06.02.12	Mitral subvalvar apparatus abnormality,
Mitral primary chords absent (agenesis): no attachment to free edge of leaflet,	to 173	06.02.47	746.9	Q24.8	06.02.12	Mitral subvalvar apparatus abnormality,

173 @ Specific mitral leaflet involved in abnormality & dual orifice qualifiers

- aortic-anterior mitral leaflet,	to 1	Q1.02.71			not relevant
- mural-posterior mitral leaflet,	to 1	Q1.02.72			not relevant
- leaflet(s) involved unknown or unspecified,	to 1	Q1.01.78			not relevant
no entry	to 1	not relevant			

174 @ Dual orifice of atrioventricular valves: qualifiers

- dual atrioventricular valve orifices of equal size,	to 1	Q1.02.61			not relevant
- dual atrioventricular valve orifices of unequal size,	to 1	Q1.02.62			not relevant
- dual atrioventricular valve orifices: eccentric (hole) type with accessory orifice,	to 1	Q1.02.63			not relevant
- dual atrioventricular valve orifices: eccentric (hole) type with anterolateral accessory orifice,	to 1	Q1.02.64			not relevant
- dual atrioventricular valve orifices: eccentric (hole) type with posteromedial accessory orifice,	to 1	Q1.02.65			not relevant
- dual atrioventricular valve orifices: central bridge type,	to 1	Q1.02.66			not relevant
- duplicate mitral valve (dual annul & subvalvar apparatus),	to 1	Q1.02.67			not relevant
no entry	to 1	not relevant			

175 Mitral papillary muscle abnormalities

Mitral papillary muscle abnormality,	to 176	06.02.51	746.9	Q24.8	06.02.12	Mitral subvalvar apparatus abnormality,
Mitral papillary muscle abnormality: congenital,	to 176	06.02.54	746.9	Q24.8	06.02.12	Mitral subvalvar apparatus abnormality,
Parachute malformation of mitral valve,	to 176	06.02.56	746.9	Q23.8	06.02.56	Parachute malformation of mitral valve,
Mitral papillary muscle absent,	to 176	06.02.52	746.9	Q24.8	06.02.12	Mitral subvalvar apparatus abnormality,
Mitral papillary muscle fused,	to 176	06.02.53	746.9	Q24.8	06.02.12	Mitral subvalvar apparatus abnormality,
Mitral papillary muscle hypoplastic,	to 176	06.02.55	746.9	Q24.8	06.02.12	Mitral subvalvar apparatus abnormality,
Mitral papillary muscle: multiple with hammock valve,	to 176	06.02.57	746.9	Q24.8	06.02.12	Mitral subvalvar apparatus abnormality,
Mitral papillary muscle elongated,	to 176	06.02.58	746.9	Q24.8	06.02.12	Mitral subvalvar apparatus abnormality,
Mitral papillary muscle shortened,	to 176	06.02.59	746.9	Q24.8	06.02.12	Mitral subvalvar apparatus abnormality,

176 @ Specific mitral papillary muscle involved in abnormality - qualifiers

- medial mitral papillary muscle,	to 1	Q1.02.74			not relevant
- lateral mitral papillary muscle,	to 1	Q1.02.75			not relevant
- papillary muscle(s) involved unknown or unspecified,	to 1	Q1.01.79			not relevant
no entry	to 1	not relevant			

End of branch

180 Atrioventricular septal defect and common atrioventricular junction

Atrioventricular septal defect (AVSD),	to 1	06.06.00	745.6	Q21.2	06.06.00	Atrioventricular septal defect (AVSD),	
Atrioventricular septal defect (AVSD): isolated atrial component (primum ASD)(partial),	to 182	06.06.01	745.6	Q21.2	06.06.01	Atrioventricular septal defect (AVSD): isolated atrial component (primum ASD)(partial),	
Atrioventricular septal defect (AVSD): isolated ventricular component,	to 182	06.06.08	745.6	Q21.2	06.06.08	Atrioventricular septal defect (AVSD): isolated ventricular component,	
Atrioventricular septal defect (AVSD): atrial & ventricular components with common atrioventricular orifice (complete),	to 182	06.06.09	745.6	Q21.2	06.06.09	Atrioventricular septal defect (AVSD): atrial & ventricular components with common AV orifice (complete),	
Atrioventricular septal defect (AVSD): atrial & (restrictive) ventricular components + separate atrioventricular valve orifices (intermediate),	to 182	06.06.10	745.6	Q21.2	06.06.10	Atrioventricular septal defect (AVSD): atrial & (restrictive) ventricular components + separate atrioventricular valve orifices (intermediate),	
Atrioventricular septal defect (AVSD): atrial component descriptor,	to 966	06.06.03	745.6	Q21.2	06.06.01	Atrioventricular septal defect (AVSD): isolated atrial component (primum ASD)(partial),	
Atrioventricular septal defect (AVSD): ventricular component descriptor,	to 966	06.06.04	745.6	Q21.2	06.06.08	Atrioventricular septal defect (AVSD): isolated ventricular component,	
Common atrioventricular junction without an atrioventricular septal defect (AVSD),	to 1	06.07.28	745.6	Q21.2	01.01.39	Cardiac abnormality,	
Common atrium (virtual absence of atrial septum),	to 966	05.06.01	745.6	Q21.2	05.06.01	Common atrium (virtual absence of atrial septum),	
Atrioventricular septal defect (AVSD) with additional muscular ventricular septal defect,	to 288	06.07.19	745.6	Q21.2	06.06.00	Atrioventricular septal defect (AVSD),	
Atrioventricular septal defect (AVSD) with balanced ventricles,	to 1	06.07.27	745.6	Q21.2	06.06.00	Atrioventricular septal defect (AVSD),	
Atrioventricular septal defect (AVSD) with ventricular imbalance,	to 962	06.07.26	745.6	Q21.2	06.07.26	Atrioventricular septal defect (AVSD) with ventricular imbalance,	
Atrioventricular septal defect (AVSD) with ventricular imbalance: dominant right ventricle, hypoplastic left ventricle,	to 1	06.07.05	745.6	Q21.2	06.07.26	Atrioventricular septal defect (AVSD) with ventricular imbalance,	
Atrioventricular septal defect (AVSD) with ventricular imbalance: dominant left ventricle, hypoplastic right ventricle,	to 1	06.07.06	745.6	Q21.2	06.07.26	Atrioventricular septal defect (AVSD) with ventricular imbalance,	
Atrioventricular septal defect and Tetralogy of Fallot,	to 1	01.01.20	745.6	745.2	Q21.3	01.01.20	Atrioventricular septal defect and Tetralogy of Fallot,
Double outlet right atrium (malaligned atrial septum),	to 1	06.07.15	745.9	Q21.9	05.03.00	Atrial septum abnormality,	
Double outlet left atrium (malaligned atrial septum),	to 1	06.07.16	745.9	Q21.9	05.03.00	Atrial septum abnormality,	
Atrioventricular septal defect (AVSD) related abnormality,	to 1	06.06.02	745.6	Q21.2	01.01.39	Cardiac abnormality,	

	Pulmonary hypertension due to left to right shunt,	to 685	10.13.21	416.8	I27.8	10.13.21	Pulmonary hypertension due to left to right shunt,
	Atrioventricular septal defect (AVSD); mode of atrioventricular connection & interventricular communications	to 182	not relevant				
	Abnormalities of valve guarding common atrioventricular junction	to 185	not relevant				
	Characteristics of pulmonary-systemic blood flow (including Qp:Qs) - qualifiers	to 975	not relevant				
182 @	Atrioventricular septal defect (AVSD): mode of atrioventricular connection & interventricular communications						
	Atrioventricular septal defect (AVSD) with separate atrioventricular orifices,	to 1	06.07.31	745.6	Q21.2	06.06.00	Atrioventricular septal defect (Atrioventricular septal defect (AVSD)),
	Atrioventricular septal defect (AVSD) with common atrioventricular orifice,	to 1	06.07.32	745.6	Q21.2	06.06.00	Atrioventricular septal defect (Atrioventricular septal defect (AVSD)),
	Common atrioventricular orifice in double inlet ventricle,	to 1	01.06.02	745.6	Q21.2	06.07.26	Atrioventricular septal defect (AVSD) with ventricular imbalance,
	Common atrioventricular valve in functionally univentricular heart,	to 1	06.07.29	745.6	Q21.2	06.07.26	Atrioventricular septal defect (AVSD) with ventricular imbalance,
	Spontaneous closure of ventricular component of atrioventricular septal defect (AVSD),	to 1	06.07.33	745.6	Z87.7	07.16.01	Spontaneous closure of VSD,
	Spontaneous closure of atrial component of atrioventricular septal defect (AVSD),	to 1	06.07.34	745.6	Z87.7	05.04.03	Spontaneous closure of atrial septal defect (ASD) within oval fossa (secundum),
	Common atrioventricular valve with balanced commitment of valve to ventricles,	to 1	06.07.35	745.6	Q21.2	06.06.00	Atrioventricular septal defect (AVSD),
	Common atrioventricular valve with unbalanced commitment of valve to ventricles,	to 1	06.07.36	745.6	Q21.2	06.05.01	Atrioventricular septal defect (AVSD) atrioventricular valvar abnormality,
	Common atrioventricular valve with unbalanced commitment of valve to ventricles: dominant right,	to 1	06.07.37	745.6	Q21.2	06.05.01	Atrioventricular septal defect (AVSD) atrioventricular valvar abnormality,
	Common atrioventricular valve with unbalanced commitment of valve to ventricles: dominant left,	to 1	06.07.38	745.6	Q21.2	06.05.01	Atrioventricular septal defect (AVSD) atrioventricular valvar abnormality,
	Atrioventricular septal defect (AVSD) interventricular communications	to 183	not relevant				
	no entry	to 1	not relevant				
183 @	Atrioventricular septal defect (AVSD) interventricular communications						
	Atrioventricular septal defect (AVSD) ventricular component under superior bridging leaflet, (Rastelli A),	to 1	06.07.08	745.6	Q21.2	not relevant	
	Atrioventricular septal defect (AVSD) ventricular component under superior bridging leaflet with chords to papillary muscle on right ventricular side septum (Rastelli B),	to 1	06.07.02	745.6	Q21.2	not relevant	
	Atrioventricular septal defect (AVSD) ventricular component under superior bridging leaflet: free floating & chords to papillary muscle at right ventricular apex-free wall (Rastelli C),	to 1	06.07.03	745.6	Q21.2	not relevant	
	Atrioventricular septal defect (AVSD) ventricular component under superior bridging leaflet: chords not to septal crest (free floating),	to 1	06.07.04	745.6	Q21.2	not relevant	
	Atrioventricular septal defect (AVSD) ventricular component with interchordal shunting under superior bridging leaflet,	to 1	06.07.09	745.6	Q21.2	not relevant	
	Atrioventricular septal defect (AVSD) ventricular component under inferior bridging leaflet,	to 1	06.07.23	745.6	Q21.2	not relevant	
	Atrioventricular septal defect (AVSD) ventricular component under inferior bridging leaflet: chords to crest ventricular septum,	to 1	06.07.10	745.6	Q21.2	not relevant	
	Atrioventricular septal defect (AVSD) ventricular component under inferior bridging leaflet: chords to crest ventricular septum,	to 1	06.07.11	745.6	Q21.2	not relevant	
	Atrioventricular septal defect (AVSD) ventricular component under inferior bridging leaflet: chords not to septal crest (free-floating),	to 1	06.07.12	745.6	Q21.2	not relevant	
	Atrioventricular septal defect (AVSD) ventricular component with interchordal shunting under inferior bridging leaflet,	to 1	06.07.24	745.6	Q21.2	not relevant	
	Atrioventricular septal defect (AVSD) ventricular component with shunting only under connecting tongue (separate orifices),	to 1	06.07.25	745.6	Q21.2	not relevant	
	Atrioventricular septal defect (AVSD) ventricular component restrictive (dissimilar ventricular pressures),	to 1	06.07.17	745.6	Q21.2	not relevant	
	Atrioventricular septal defect (AVSD) ventricular component related abnormality,	to 1	06.07.07	745.6	Q21.2	not relevant	
185	Abnormalities of valve guarding common atrioventricular junction						
	Atrioventricular septal defect (AVSD) atrioventricular valvar abnormality,	to 1	06.05.01	746.9	Q24.8	06.05.01	Atrioventricular septal defect (AVSD) atrioventricular valvar abnormality,
	Right atrioventricular valve in atrioventricular septal defect (AVSD) atretic (imperforate),	to 1	06.05.61	746.9	Q24.8	06.01.01	Tricuspid atresia,
	Left atrioventricular valve in atrioventricular septal defect (AVSD) atretic (imperforate),	to 1	06.05.62	746.8	Q23.2	06.02.01	Mitral atresia,
	Right atrioventricular valvar hypoplasia in atrioventricular septal defect (AVSD),	to 955	06.05.63	746.9	Q24.8	06.05.01	Atrioventricular septal defect (AVSD) atrioventricular valvar abnormality,
	Left atrioventricular valvar hypoplasia in atrioventricular septal defect (AVSD),	to 955	06.05.64	746.9	Q23.2	06.05.01	Atrioventricular septal defect (AVSD) atrioventricular valvar abnormality,
	Left atrioventricular valve in atrioventricular septal defect (AVSD): trifoliate (with 'cleft'),	to 955	06.05.69	746.9	Q23.2	06.05.01	Atrioventricular septal defect (AVSD) atrioventricular valvar abnormality,
	Left atrioventricular valve in atrioventricular septal defect (AVSD): fused left-sided superior & inferior bridging leaflets (bifoliate; no 'cleft'),	to 955	06.05.70	746.9	Q23.2	06.05.01	Atrioventricular septal defect (AVSD) atrioventricular valvar abnormality,
	Common atrioventricular valvar dysplasia (mucoid thickening),	to 1	06.05.03	746.9	Q24.8	06.05.01	Atrioventricular septal defect (AVSD) atrioventricular valvar abnormality,
	Right atrioventricular valvar dysplasia (mucoid thickening) in atrioventricular septal defect (AVSD),	to 1	06.05.65	746.9	Q22.8	06.05.01	Atrioventricular septal defect (AVSD) atrioventricular valvar abnormality,
	Left atrioventricular valvar dysplasia (mucoid thickening) in atrioventricular septal defect (AVSD),	to 1	06.05.66	746.9	Q23.8	06.05.01	Atrioventricular septal defect (AVSD) atrioventricular valvar abnormality,
	Atrioventricular septal defect (AVSD) atrioventricular valvar regurgitation	to 186	not relevant				
	Common atrioventricular valve limited to one ventricle,	to 1	06.05.07	745.3	Q24.8	06.07.26	Atrioventricular septal defect (AVSD) with ventricular imbalance,
	Common atrioventricular valve annulus dilatation,	to 955	06.05.09	746.9	Q24.8	06.05.01	Atrioventricular septal defect (AVSD) atrioventricular valvar abnormality,
	Common atrioventricular valvar stenosis,	to 960	06.05.10	746.9	Q24.8	06.05.01	Atrioventricular septal defect (AVSD) atrioventricular valvar abnormality,
	Right atrioventricular valvar stenosis in atrioventricular septal defect (AVSD),	to 960	06.05.67	746.1	Q22.4	06.05.01	Atrioventricular septal defect (AVSD) atrioventricular valvar abnormality,
	Left atrioventricular valvar stenosis in atrioventricular septal defect (AVSD),	to 960	06.05.68	746.5	Q23.2	06.05.01	Atrioventricular septal defect (AVSD) atrioventricular valvar abnormality,
	Common atrioventricular valvar abnormality,	to 1	06.05.14	746.9	Q24.8	06.05.01	Atrioventricular septal defect (AVSD) atrioventricular valvar abnormality,
	Atrioventricular septal defect (AVSD) atrioventricular valvar leaflet abnormality	to 190	not relevant				
	Atrioventricular septal defect (AVSD) atrioventricular valvar chordal abnormality	to 191	not relevant				
	Atrioventricular septal defect (AVSD) atrioventricular valvar papillary muscle abnormality	to 195	not relevant				
186	Atrioventricular septal defect (AVSD) atrioventricular valvar regurgitation						
	Atrioventricular septal defect (AVSD) atrioventricular valvar regurgitation,	to 963	06.05.06	746.8	Q24.8	06.05.06	Atrioventricular septal defect (AVSD) atrioventricular valvar abnormality,
	Common atrioventricular valvar regurgitation,	to 963	06.05.60	746.8	Q24.8	06.05.06	Atrioventricular septal defect (AVSD) atrioventricular valvar abnormality,
	Atrioventricular septal defect (AVSD) atrioventricular valvar regurgitation: right atrioventricular valve,	to 963	06.05.50	746.8	Q22.8	06.05.06	Atrioventricular septal defect (AVSD) atrioventricular valvar abnormality,
	Atrioventricular septal defect (AVSD) atrioventricular valvar regurgitation: right septal commissure ('cleft'),	to 963	06.05.51	746.8	Q22.8	06.05.06	Atrioventricular septal defect (AVSD) atrioventricular valvar abnormality,
	Atrioventricular septal defect (AVSD) atrioventricular valvar regurgitation: right anterosuperior-superior bridging leaflet commissure,	to 963	06.05.52	746.8	Q22.8	06.05.06	Atrioventricular septal defect (AVSD) atrioventricular valvar abnormality,
	Atrioventricular septal defect (AVSD) atrioventricular valvar regurgitation: right anterosuperior-inferior-mural commissure,	to 963	06.05.53	746.8	Q22.8	06.05.06	Atrioventricular septal defect (AVSD) atrioventricular valvar abnormality,
	Atrioventricular septal defect (AVSD) atrioventricular valvar regurgitation: right inferior bridging leaflet-inferior-mural commissure,	to 963	06.05.54	746.8	Q22.8	06.05.06	Atrioventricular septal defect (AVSD) atrioventricular valvar abnormality,
	Atrioventricular septal defect (AVSD) atrioventricular valvar regurgitation: left atrioventricular valve,	to 963	06.05.55	746.6	Q23.3	06.05.06	Atrioventricular septal defect (AVSD) atrioventricular valvar abnormality,
	Atrioventricular septal defect (AVSD) atrioventricular valvar regurgitation: left septal commissure ('cleft'),	to 963	06.05.56	746.6	Q23.3	06.05.06	Atrioventricular septal defect (AVSD) atrioventricular valvar abnormality,
	Atrioventricular septal defect (AVSD) atrioventricular valvar regurgitation: left superior bridging leaflet-lateral-mural commissure,	to 963	06.05.57	746.6	Q23.3	06.05.06	Atrioventricular septal defect (AVSD) atrioventricular valvar abnormality,
	Atrioventricular septal defect (AVSD) atrioventricular valvar regurgitation: left inferior bridging leaflet-lateral-mural commissure,	to 963	06.05.58	746.6	Q23.3	06.05.06	Atrioventricular septal defect (AVSD) atrioventricular valvar abnormality,
	Atrioventricular septal defect (AVSD) atrioventricular valvar regurgitation related abnormality,	to 1	06.05.59	746.8	Q24.8	01.01.39	Cardiac abnormality,
190	Atrioventricular septal defect (AVSD) atrioventricular valvar leaflet abnormalities						
	Atrioventricular septal defect (AVSD) atrioventricular valvar leaflet abnormality,	to 193	06.05.20	746.9	Q24.9	06.05.01	Atrioventricular septal defect (AVSD) atrioventricular valvar abnormality,
	Atrioventricular septal defect (AVSD) atrioventricular valvar leaflet abnormality: congenital,	to 193	06.05.29	746.9	Q24.9	06.05.01	Atrioventricular septal defect (AVSD) atrioventricular valvar abnormality,
	Atrioventricular septal defect (AVSD) atrioventricular valvar prolapse,	to 193	06.05.21	746.9	Q24.9	06.05.01	Atrioventricular septal defect (AVSD) atrioventricular valvar abnormality,
	True cleft of atrioventricular septal defect (AVSD) atrioventricular valve leaflet,	to 193	06.05.22	746.9	Q24.9	06.05.01	Atrioventricular septal defect (AVSD) atrioventricular valvar abnormality,
	Accessory tissue on atrioventricular septal defect (AVSD) atrioventricular valve leaflet,	to 193	06.05.23	746.9	Q24.9	06.05.01	Atrioventricular septal defect (AVSD) atrioventricular valvar abnormality,
	Double orifice of right atrioventricular valve in atrioventricular septal defect (AVSD),	to 174	06.05.24	746.9	Q24.9	06.05.01	Atrioventricular septal defect (AVSD) atrioventricular valvar abnormality,
	Double orifice of left atrioventricular valve in atrioventricular septal defect (AVSD),	to 174	06.05.25	746.9	Q24.9	06.05.01	Atrioventricular septal defect (AVSD) atrioventricular valvar abnormality,
	Triple orifice of left atrioventricular valve in atrioventricular septal defect (AVSD),	to 174	06.05.26	746.9	Q24.9	06.05.01	Atrioventricular septal defect (AVSD) atrioventricular valvar abnormality,
	Ebstein's malformation of right atrioventricular valve in atrioventricular septal defect (AVSD),	to 193	06.05.27	746.2	Q22.5	06.01.34	Ebstein's malformation of tricuspid valve,
	Ebstein's malformation of left atrioventricular valve in atrioventricular septal defect (AVSD),	to 193	06.05.28	746.9	Q24.9	06.05.01	Atrioventricular septal defect (AVSD) atrioventricular valvar abnormality,
	Atrioventricular septal defect (AVSD) valvar leaflet fenestration,	to 193	06.05.91	746.9	Q24.9	06.05.01	Atrioventricular septal defect (AVSD) atrioventricular valvar abnormality,
	Atrioventricular septal defect (AVSD) valvar leaflet deficiency: congenital,	to 193	06.05.92	746.9	Q24.9	06.05.01	Atrioventricular septal defect (AVSD) atrioventricular valvar abnormality,
	Atrioventricular septal defect (AVSD) valvar leaflet associated mass,	to 980	06.05.93	746.9	Q24.9	06.05.01	Atrioventricular septal defect (AVSD) atrioventricular valvar abnormality,
	Atrioventricular septal defect (AVSD) valvar leaflet thickened,	to 193	06.05.94	746.9	Q24.9	06.05.01	Atrioventricular septal defect (AVSD) atrioventricular valvar abnormality,
	Atrioventricular septal defect (AVSD) valvar leaflet gelatinous,	to 193	06.05.95	746.9	Q24.9	06.05.01	Atrioventricular septal defect (AVSD) atrioventricular valvar abnormality,
	Atrioventricular septal defect (AVSD) valvar leaflet noncoapting,	to 193	06.05.96	746.9	Q24.9	06.05.01	Atrioventricular septal defect (AVSD) atrioventricular valvar abnormality,
	Fliail leaflet of atrioventricular septal defect (AVSD) valve,	to 193	06.05.97	746.9	Q24.9	06.05.01	Atrioventricular septal defect (AVSD) atrioventricular valvar abnormality,
191	Atrioventricular septal defect (AVSD) atrioventricular valvar chordal abnormalities						
	Atrioventricular septal defect (AVSD) atrioventricular valvar chordal abnormality,	to 193	06.05.31	746.9	Q24.8	06.05.01	Atrioventricular septal defect (AVSD) atrioventricular valvar abnormality,
	Atrioventricular septal defect (AVSD) atrioventricular valvar chordal abnormality: congenital,	to 193	06.05.39	746.9	Q24.8	06.05.01	Atrioventricular septal defect (AVSD) atrioventricular valvar abnormality,
	Atrioventricular septal defect (AVSD) atrioventricular valvar chords shortened,	to 193	06.05.32	746.9	Q24.8	06.05.01	Atrioventricular septal defect (AVSD) atrioventricular valvar abnormality,
	Atrioventricular septal defect (AVSD) atrioventricular valvar chords elongated,	to 193	06.05.33	746.9	Q24.8	06.05.01	Atrioventricular septal defect (AVSD) atrioventricular valvar abnormality,
	Atrioventricular septal defect (AVSD) atrioventricular valvar chords to outlet septum,	to 193	06.05.34	746.9	Q24.8	06.05.01	Atrioventricular septal defect (AVSD) atrioventricular valvar abnormality,
	Arcade abnormality of right atrioventricular valvar chords in atrioventricular septal defect (AVSD),	to 193	06.05.35	746.9	Q24.8	06.05.01	Atrioventricular septal defect (AVSD) atrioventricular valvar abnormality,
	Arcade abnormality of left atrioventricular valvar chords in atrioventricular septal defect (AVSD),	to 193	06.05.36	746.9	Q24.8	06.05.01	Atrioventricular septal defect (AVSD) atrioventricular valvar abnormality,
193 @	Specific Atrioventricular septal defect (AVSD) atrioventricular valvar leaflet and subvalvar apparatus involved in abnormality - qualifiers						
	- right anterosuperior leaflet in atrioventricular septal defect (AVSD),	to 1	Q1.05.81			not relevant	
	- right inferior-mural leaflet in atrioventricular septal defect (AVSD),	to 1	Q1.05.82			not relevant	
	- superior bridging leaflet,	to 1	Q1.05.83			not relevant	
	- inferior bridging leaflet,	to 1	Q1.05.84			not relevant	
	- left lateral-mural leaflet in atrioventricular septal defect (AVSD),	to 1	Q1.05.85			not relevant	
	- common atrioventricular valvar leaflet,	to 1	Q5.52.89			not relevant	
	- leaflet(s) involved unknown or unspecified,	to 1	Q1.01.78			not relevant	
	- atrioventricular septal defect (AVSD) leaflet (DESCRIBE),	to 1	Q1.05.86			not relevant	
	- right atrioventricular valve chords in atrioventricular septal defect (AVSD),	to 1	Q1.05.91			not relevant	
	- left atrioventricular valve chords in atrioventricular septal defect (AVSD),	to 1	Q1.05.87			not relevant	
	- chord(s) involved unknown or unspecified,	to 1	Q1.05.88			not relevant	
	- right atrioventricular valve papillary muscle in atrioventricular septal defect (AVSD),	to 1	Q1.05.89			not relevant	
	- left atrioventricular valve papillary muscle in atrioventricular septal defect (AVSD),	to 1	Q1.05.90			not relevant	
	- papillary muscle(s) involved unknown or unspecified,	to 1	Q1.01.79			not relevant	
	no entry	to 1	not relevant				
195	Atrioventricular septal defect (AVSD) atrioventricular valvar papillary muscle abnormalities						
	Atrioventricular septal defect (AVSD) atrioventricular valvar papillary muscle abnormality,	to 193	06.05.40	746.9	Q24.8	06.05.01	Atrioventricular septal defect (AVSD) atrioventricular valvar abnormality,
	Atrioventricular septal defect (AVSD) atrioventricular valvar papillary muscle abnormality: congenital,	to 1	06.05.49	746.9	Q24.8	06.05.01	Atrioventricular septal defect (AVSD) atrioventricular valvar abnormality,
	Parachute malformation of right atrioventricular valve in atrioventricular septal defect (AVSD),	to 1	06.05.41	746.9	Q24.8	06.05.01	Atrioventricular septal defect (AVSD) atrioventricular valvar abnormality,
	Parachute malformation of left atrioventricular valve in atrioventricular septal defect (AVSD),	to 1	06.05.42	746.9	Q24.8	06.05.01	Atrioventricular septal defect (AVSD) atrioventricular valvar abnormality,

Right atrioventricular valve papillary muscle in atrioventricular septal defect (AVSD) absent,	to 1	06.05.43	746.9	Q24.8	06.05.01	Atrioventricular septal defect (AVSD) atrioventricular valvar abnormality,
Left atrioventricular valve papillary muscle in atrioventricular septal defect (AVSD) absent,	to 1	06.05.44	746.9	Q24.8	06.05.01	Atrioventricular septal defect (AVSD) atrioventricular valvar abnormality,
Right atrioventricular valve papillary muscle in atrioventricular septal defect (AVSD) fused,	to 1	06.05.45	746.9	Q24.8	06.05.01	Atrioventricular septal defect (AVSD) atrioventricular valvar abnormality,
Left atrioventricular valve papillary muscle in atrioventricular septal defect (AVSD) fused,	to 1	06.05.46	746.9	Q24.8	06.05.01	Atrioventricular septal defect (AVSD) atrioventricular valvar abnormality,
Right atrioventricular valve papillary muscle in atrioventricular septal defect (AVSD) hypoplastic,	to 1	06.05.47	746.9	Q24.8	06.05.01	Atrioventricular septal defect (AVSD) atrioventricular valvar abnormality,
Left atrioventricular valve papillary muscle in atrioventricular septal defect (AVSD) hypoplastic,	to 1	06.05.48	746.9	Q24.8	06.05.01	Atrioventricular septal defect (AVSD) atrioventricular valvar abnormality,

End of branch

200 @ Right-sided & left-sided atrioventricular valvar abnormalities in double inlet ventricle

Right-sided atrioventricular valvar abnormalities in double inlet ventricle	to 210	not relevant				
Left-sided atrioventricular valvar abnormalities in double inlet ventricle	to 220	not relevant				

210 @ Right-sided atrioventricular valvar abnormalities in double inlet ventricle

Right-sided atrioventricular valvar abnormality in double inlet ventricle,	to 1	06.03.00	746.9	Q22.9	06.01.00	Tricuspid valvar abnormality,
Right-sided atrioventricular valvar abnormality in double inlet ventricle: congenital,	to 1	06.03.11	746.9	Q22.8	06.01.00	Tricuspid valvar abnormality,
Right-sided atrioventricular valve in double inlet ventricle: atretic (imperforate),	to 1	06.03.02	746.1	Q22.4	06.01.01	Tricuspid atresia,
Right-sided atrioventricular valvar dysplasia in double inlet ventricle (mucoid thickening),	to 1	06.03.03	746.9	Q22.8	06.01.00	Tricuspid valvar abnormality,
Right-sided atrioventricular annulus hypoplasia in double inlet ventricle,	to 955	06.03.04	746.9	Q22.4	06.01.92	Tricuspid stenosis,
Right-sided atrioventricular valvar regurgitation in double inlet ventricle,	to 963	06.03.25	746.8	Q22.8	06.01.25	Tricuspid regurgitation: congenital,
Overriding right-sided atrioventricular valve in double inlet ventricle,	to 973	06.03.05	746.9	Q22.8	06.01.00	Tricuspid valvar abnormality,
Right-sided atrioventricular annulus dilation in double inlet ventricle,	to 955	06.03.06	746.9	Q22.8	06.01.00	Tricuspid valvar abnormality,
Right-sided atrioventricular valvar stenosis in double inlet ventricle,	to 960	06.03.07	746.1	Q22.4	06.01.92	Tricuspid stenosis,
Straddling right-sided atrioventricular valve in double inlet ventricle,	to 1	06.03.09	746.9	Q22.8	06.01.09	Straddling tricuspid valve,
Right-sided atrioventricular valvar leaflet abnormality in double inlet ventricle	to 211	not relevant				
Right-sided atrioventricular valve chordal abnormality in double inlet ventricle	to 212	not relevant				
Right-sided atrioventricular valvar papillary muscle abnormality in double inlet ventricle	to 215	not relevant				

211 @ Right-sided atrioventricular valvar leaflet abnormalities in double inlet ventricle

Right-sided atrioventricular valvar leaflet abnormality in double inlet ventricle,	to 1	06.03.31	746.9	Q22.9	06.01.00	Tricuspid valvar abnormality,
Right-sided atrioventricular valvar leaflet abnormality in double inlet ventricle: congenital,	to 1	06.03.37	746.9	Q22.9	06.01.00	Tricuspid valvar abnormality,
Right-sided atrioventricular valvar leaflets absent in double inlet ventricle (unguarded orifice),	to 1	06.03.32	746.9	Q22.9	06.01.00	Tricuspid valvar abnormality,
Double orifice of right-sided atrioventricular valve in double inlet ventricle,	to 174	06.03.33	746.8	Q22.9	06.01.00	Tricuspid valvar abnormality,
Ebstein's malformation of right-sided atrioventricular valve in double inlet ventricle,	to 1	06.03.34	746.2	Q22.5	06.01.34	Ebstein's malformation of tricuspid valve,
Right-sided atrioventricular valvar prolapse in double inlet ventricle,	to 1	06.03.35	746.9	Q22.9	06.01.00	Tricuspid valvar abnormality,
True cleft of right-sided atrioventricular valvar leaflet in double inlet ventricle,	to 1	06.03.36	746.9	Q22.9	06.01.00	Tricuspid valvar abnormality,
Accessory tissue on right-sided atrioventricular valvar leaflet in double inlet ventricle,	to 1	06.03.38	746.9	Q22.9	06.01.00	Tricuspid valvar abnormality,
Right-sided atrioventricular valvar leaflet dysplasia in double inlet ventricle (mucoid thickening),	to 1	06.03.39	746.9	Q22.9	06.01.00	Tricuspid valvar abnormality,
Right-sided atrioventricular valvar leaflet associated mass,	to 980	06.03.40	746.9	Q22.9	06.01.00	Tricuspid valvar abnormality,
Right-sided atrioventricular valvar leaflet thickened,	to 1	06.03.60	746.9	Q22.9	06.01.00	Tricuspid valvar abnormality,
Right-sided atrioventricular valvar leaflet gelatinous,	to 1	06.03.61	746.9	Q22.9	06.01.00	Tricuspid valvar abnormality,
Right-sided atrioventricular valvar leaflet noncoapting,	to 1	06.03.62	746.9	Q22.9	06.01.00	Tricuspid valvar abnormality,
Flail leaflet of right-sided atrioventricular valve,	to 1	06.03.63	746.9	Q22.9	06.01.00	Tricuspid valvar abnormality,

212 @ Right-sided atrioventricular valve chordal abnormalities in double inlet ventricle

Right-sided atrioventricular valve chordal abnormality in double inlet ventricle,	to 1	06.03.41	746.9	Q24.8	06.01.00	Tricuspid valvar abnormality,
Right-sided atrioventricular valve chordal abnormality in double inlet ventricle: congenital,	to 1	06.03.45	746.9	Q24.8	06.01.00	Tricuspid valvar abnormality,
Arcade abnormality of right-sided atrioventricular valve chords in double inlet ventricle,	to 1	06.03.42	746.9	Q24.8	06.01.00	Tricuspid valvar abnormality,
Right-sided atrioventricular valvar chords shortened in double inlet ventricle,	to 1	06.03.43	746.9	Q24.8	06.01.00	Tricuspid valvar abnormality,
Right-sided atrioventricular valvar chords elongated in double inlet ventricle,	to 1	06.03.44	746.9	Q24.8	06.01.00	Tricuspid valvar abnormality,
Right-sided atrioventricular valvar chords to outlet septum in double inlet ventricle,	to 1	06.03.46	746.9	Q24.8	06.01.00	Tricuspid valvar abnormality,

215 @ Right-sided atrioventricular valvar papillary muscle abnormalities in double inlet ventricle

Right-sided atrioventricular valvar papillary muscle abnormality in double inlet ventricle,	to 1	06.03.51	746.9	Q24.8	06.01.00	Tricuspid valvar abnormality,
Right-sided atrioventricular valvar papillary muscle abnormality in double inlet ventricle: congenital,	to 1	06.03.54	746.9	Q24.8	06.01.00	Tricuspid valvar abnormality,
Parachute malformation of right-sided atrioventricular valve in double inlet ventricle,	to 1	06.03.56	746.9	Q22.8	06.01.00	Tricuspid valvar abnormality,
Right-sided atrioventricular valvar papillary muscle absent in double inlet ventricle,	to 1	06.03.52	746.9	Q24.8	06.01.00	Tricuspid valvar abnormality,
Right-sided atrioventricular valvar papillary muscle fused in double inlet ventricle,	to 1	06.03.53	746.9	Q24.8	06.01.00	Tricuspid valvar abnormality,
Right-sided atrioventricular valvar papillary muscle hypoplastic in double inlet ventricle,	to 1	06.03.55	746.9	Q24.8	06.01.00	Tricuspid valvar abnormality,

End of branch

220 @ Left-sided atrioventricular valvar abnormalities in double inlet ventricle

Left-sided atrioventricular valvar abnormality in double inlet ventricle,	to 1	06.04.00	746.9	Q23.9	06.02.00	Mitral valvar abnormality,
Left-sided atrioventricular valvar abnormality in double inlet ventricle: congenital,	to 1	06.04.11	746.9	Q23.8	06.02.00	Mitral valvar abnormality,
Left-sided atrioventricular valve in double inlet ventricle: atretic (imperforate),	to 1	06.04.02	746.8	Q23.2	06.02.01	Mitral atresia,
Left-sided atrioventricular valvar dysplasia in double inlet ventricle (mucoid thickening),	to 1	06.04.03	746.9	Q23.8	06.02.00	Mitral valvar abnormality,
Left-sided atrioventricular annulus hypoplasia in double inlet ventricle,	to 955	06.04.04	746.9	Q23.2	06.02.07	Mitral valvar stenosis: congenital,
Left-sided atrioventricular valvar regurgitation in double inlet ventricle,	to 963	06.04.25	746.8	Q23.3	06.02.25	Mitral regurgitation: congenital,
Overriding left-sided atrioventricular valve in double inlet ventricle,	to 973	06.04.05	746.9	Q23.8	06.02.00	Mitral valvar abnormality,
Left-sided atrioventricular annulus dilation in double inlet ventricle,	to 955	06.04.06	746.9	Q23.8	06.02.00	Mitral valvar abnormality,
Left-sided atrioventricular valvar stenosis in double inlet ventricle,	to 960	06.04.07	746.5	Q23.2	06.02.07	Mitral valvar stenosis: congenital,
Straddling left-sided atrioventricular valve in double inlet ventricle,	to 1	06.04.09	746.9	Q23.8	06.02.09	Straddling mitral valve,
Left-sided atrioventricular valvar leaflet abnormality in double inlet ventricle	to 221	not relevant				
Left-sided atrioventricular valve chordal abnormality in double inlet ventricle	to 222	not relevant				
Left-sided atrioventricular valvar papillary muscle abnormality in double inlet ventricle	to 225	not relevant				

221 @ Left-sided atrioventricular valvar leaflet abnormalities in double inlet ventricle

Left-sided atrioventricular valvar leaflet abnormality in double inlet ventricle,	to 1	06.04.31	746.9	Q23.9	06.02.00	Mitral valvar abnormality,	
Left-sided atrioventricular valvar leaflet abnormality in double inlet ventricle: congenital,	to 1	06.04.37	746.9	Q23.9	06.02.00	Mitral valvar abnormality,	
Left-sided atrioventricular valvar leaflets absent in double inlet ventricle (unguarded orifice),	to 1	06.04.32	746.9	Q23.9	Q23.2	06.02.00	Mitral valvar abnormality,
Double orifice of left-sided atrioventricular valve in double inlet ventricle,	to 174	06.04.33	746.8	Q23.9	06.02.00	Mitral valvar abnormality,	
Ebstein's malformation of left-sided atrioventricular valve in double inlet ventricle,	to 1	06.04.34	746.9	Q23.9	06.02.00	Mitral valvar abnormality,	
Left-sided atrioventricular valvar prolapse in double inlet ventricle,	to 1	06.04.35	746.9	Q23.9	06.02.35	Mitral valvar prolapse,	
True cleft of left-sided atrioventricular valvar leaflet in double inlet ventricle,	to 1	06.04.36	746.9	Q23.9	06.02.36	True cleft of mitral leaflet (without AVSD),	
Accessory tissue on left atrioventricular valvar leaflet in double inlet ventricle,	to 1	06.04.39	746.9	Q23.9	06.02.00	Mitral valvar abnormality,	
Left-sided atrioventricular valvar leaflet dysplasia in double inlet ventricle (mucoid thickening),	to 1	06.04.40	746.9	Q23.9	06.02.00	Mitral valvar abnormality,	
Left-sided atrioventricular valvar leaflet associated mass,	to 980	06.04.38	746.9	Q23.9	06.02.00	Mitral valvar abnormality,	
Left-sided atrioventricular valvar leaflet thickened,	to 1	06.04.60	746.9	Q23.9	06.02.00	Mitral valvar abnormality,	
Left-sided atrioventricular valvar leaflet gelatinous,	to 1	06.04.61	746.9	Q23.9	06.02.00	Mitral valvar abnormality,	
Left-sided atrioventricular valvar leaflet noncoapting,	to 1	06.04.62	746.9	Q23.9	06.02.00	Mitral valvar abnormality,	
Flail leaflet of left-sided atrioventricular valve,	to 1	06.04.63	746.9	Q23.9	06.02.00	Mitral valvar abnormality,	

222 @ Left-sided atrioventricular valve chordal abnormalities in double inlet ventricle

Left-sided atrioventricular valve chordal abnormality in double inlet ventricle,	to 1	06.04.41	746.9	Q24.8	06.02.12	Mitral subvalvar apparatus abnormality,
Left-sided atrioventricular valve chordal abnormality in double inlet ventricle: congenital,	to 1	06.04.45	746.9	Q24.8	06.02.12	Mitral subvalvar apparatus abnormality,
Arcade abnormality of left atrioventricular valvar chords in double inlet ventricle,	to 1	06.04.42	746.9	Q24.8	06.02.12	Mitral subvalvar apparatus abnormality,
Left-sided atrioventricular valvar chords shortened in double inlet ventricle,	to 1	06.04.43	746.9	Q24.8	06.02.12	Mitral subvalvar apparatus abnormality,
Left-sided atrioventricular valvar chords elongated in double inlet ventricle,	to 1	06.04.44	746.9	Q24.8	06.02.12	Mitral subvalvar apparatus abnormality,
Left-sided atrioventricular valvar chords to outlet septum in double inlet ventricle,	to 1	06.04.46	746.9	Q24.8	06.02.12	Mitral subvalvar apparatus abnormality,

225 @ Left-sided atrioventricular valvar papillary muscle abnormalities in double inlet ventricle

Left-sided atrioventricular valvar papillary muscle abnormality in double inlet ventricle,	to 1	06.04.51	746.9	Q24.8	06.02.12	Mitral subvalvar apparatus abnormality,
Left-sided atrioventricular valvar papillary muscle abnormality in double inlet ventricle: congenital,	to 1	06.04.54	746.9	Q24.8	06.02.12	Mitral subvalvar apparatus abnormality,
Parachute malformation of left-sided atrioventricular valve in double inlet ventricle,	to 1	06.04.56	746.9	Q23.8	06.02.56	Parachute malformation of mitral valve,
Left-sided atrioventricular valvar papillary muscle absent in double inlet ventricle,	to 1	06.04.52	746.9	Q24.8	06.02.12	Mitral subvalvar apparatus abnormality,
Left-sided atrioventricular valvar papillary muscle fused in double inlet ventricle,	to 1	06.04.53	746.9	Q24.8	06.02.12	Mitral subvalvar apparatus abnormality,
Left-sided atrioventricular valvar papillary muscle hypoplastic in double inlet ventricle,	to 1	06.04.55	746.9	Q24.8	06.02.12	Mitral subvalvar apparatus abnormality,

End of branch

250 Ventricles and Ventricular septum

Tetralogy of Fallot and variants	to 70	not relevant				
Ventricular imbalance	to 73	not relevant				
Functionally univentricular heart,	to 72	01.01.22	746.9	Q20.9	01.01.22	Functionally univentricular heart,
Solitary ventricle of indeterminate morphology,	to 1	02.03.05	745.3	Q20.4	02.03.05	Solitary ventricle of indeterminate morphology,
Ventricular hypoplasia,	to 962	07.08.43	746.9	Q20.9	01.01.39	Cardiac abnormality,
Ventricular outflow tract obstruction,	to 1	07.08.48	746.9	Q20.9	01.01.39	Cardiac abnormality,
Congenital abnormality of ventricles or ventricular septum,	to 1	07.00.00	746.9	Q20.9	01.01.39	Cardiac abnormality,
Right ventricular abnormalities	to 260	not relevant				
Right ventricular outflow tract abnormalities	to 265	not relevant				
Left ventricular abnormalities	to 270	not relevant				
Left ventricular outflow tract abnormalities and subaortic stenosis	to 275	not relevant				
Outflow tracts from ventricle of indeterminate morphology,	to 280	not relevant				
Ventricular septal abnormalities	to 285	not relevant				

End of branch

Right ventricular abnormalities

Right ventricular abnormality,	to 1	07.01.00	746.9	Q24.9	07.01.00	Right ventricular abnormality,
Right ventricular hypoplasia and pariete characteristics	to 262	not relevant				
Double chambered right ventricle and associated lesions	to 264	not relevant				
Right ventricular abnormality; congenital,	to 1	07.01.07	746.9	Q24.8	07.01.00	Right ventricular abnormality,
Right ventricular dilation,	to 962	07.01.02	429.3	I5.7	10.16.00	Right ventricular abnormality; acquired,
Right ventricular hypertrophy,	to 962	07.01.05	429.3	I5.7	10.16.00	Right ventricular abnormality; acquired,
Primary right ventricular endocardial fibroelastosis,	to 1	07.01.04	425.3	M2.4	10.10.12	Endocardial fibroelastosis,
Right ventricular wall paper thin (Lif's anomaly),	to 1	07.01.06	746.8	Q24.8	07.01.00	Right ventricular abnormality,
Right ventricular diverticulum: congenital,	to 1	07.01.03	746.8	Q24.8	07.01.00	Right ventricular abnormality,
Right ventricular aneurysm: congenital,	to 976	07.01.01	746.8	Q24.8	07.01.14	Right ventricular aneurysm,
Right ventricular dysfunction,	to 972	07.01.11	429.8	I5.8	07.01.11	Right ventricular dysfunction,
Right ventricular dysfunction: generalised,	to 972	07.01.08	429.8	I5.8	07.01.11	Right ventricular dysfunction,
Right ventricular dysfunction: regional,	to 972	07.01.09	429.8	I5.8	07.01.11	Right ventricular dysfunction,
Arrhythmogenic right ventricular cardiomyopathy,	to 972	07.01.10	425.4	M2.8	07.01.10	Arrhythmogenic right ventricular cardiomyopathy,
Right ventricular myocardial noncompaction cardiomyopathy,	to 668	07.01.12	425.4	M2.8	07.08.50	Ventricular myocardial noncompaction cardiomyopathy,
Right ventricular myocardial sinusoids,	to 1	07.01.13	746.9	Q24.8	07.01.13	Right ventricular myocardial sinusoids,
Right ventricular anomalous muscle bundles,	to 1	07.01.16	746.9	Q24.8	07.01.00	Right ventricular abnormality,

262 Right ventricular hypoplasia and pariete characteristics

Right ventricular hypoplasia,	to 962	07.02.00	746.9	Q20.8	07.02.00	Right ventricular hypoplasia,
Hypoplastic right heart syndrome,	to 1	07.02.10	746.9	Q22.6	07.02.00	Right ventricular hypoplasia,
Right ventricular hypoplasia: diffuse,	to 962	07.02.01	746.9	Q20.8	07.02.00	Right ventricular hypoplasia,
Hypoplasia of right ventricular outflow tract,	to 962	07.02.02	746.9	Q20.8	07.02.00	Right ventricular hypoplasia,
Hypoplasia of right ventricular inflow tract,	to 962	07.02.03	746.9	Q20.8	07.02.00	Right ventricular hypoplasia,
Hypoplasia of trabecular portion and outflow tract of right ventricle,	to 962	07.02.04	746.9	Q20.8	07.02.00	Right ventricular hypoplasia,
Hypoplasia of trabecular portion of right ventricle,	to 962	07.02.06	746.9	Q20.8	07.02.00	Right ventricular hypoplasia,
Right ventricle = tripartite,	to 600	07.02.07	746.9	Q20.8	07.02.00	Right ventricular hypoplasia,
Right ventricle = bipartite,	to 600	07.02.08	746.9	Q20.8	07.02.00	Right ventricular hypoplasia,
Right ventricle = unipartite,	to 600	07.02.09	746.9	Q20.8	07.02.00	Right ventricular hypoplasia,
Right ventricular hypoplasia related abnormality,	to 1	07.02.05	746.9	Q20.8	01.01.39	Cardiac abnormality,

264 Double chambered right ventricle and associated lesions

Double chambered right ventricle,	to 1	07.03.01	746.8	Q24.8	07.03.01	Double chambered right ventricle,
Double chambered right ventricle due to hypertrophy of septomarginal trabeculation,	to 1	07.03.03	746.8	Q24.8	07.03.01	Double chambered right ventricle,
Double chambered right ventricle due to hypertrophy of muscle bands,	to 1	07.03.02	746.8	Q24.8	07.03.01	Double chambered right ventricle,
Double chambered right ventricle with ventricular septal defect above obstruction,	to 288	07.03.05	746.8	Q24.8	07.03.01	Double chambered right ventricle,
Double chambered right ventricle with ventricular septal defect below obstruction,	to 288	07.03.06	746.8	Q24.8	07.03.01	Double chambered right ventricle,
Double chambered right ventricle with ventricular septal defect(s) below & above obstruction,	to 288	07.03.07	746.8	Q24.8	07.03.01	Double chambered right ventricle,
Double chambered right ventricle related abnormality,	to 1	07.03.04	746.8	Q24.8	01.01.39	Cardiac abnormality,
Associated ventricular septal defect	to 288	not relevant				
Subaortic stenosis due to fibromuscular shelf,	to 281	07.09.03	746.8	Q24.4	07.09.03	Subaortic stenosis due to fibromuscular shelf,

End of branch

265 Right ventricular outflow tract abnormalities

Right ventricular outflow tract obstruction	to 266	not relevant				
Right ventricular outflow tract atresia,	to 1	07.04.02	746.8	Q24.8	07.05.01	Right ventricular outflow tract obstruction,
Right ventricular outflow tract absent,	to 1	07.04.01	746.8	Q24.8	07.05.01	Right ventricular outflow tract obstruction,
Right ventricular outflow tract unobstructed,	to 1	07.04.04				not relevant
Right ventricular outflow tract abnormality,	to 1	07.04.03	746.8	Q24.8	07.01.00	Right ventricular abnormality,
Subpulmonary stenosis,	to 960	07.05.30	746.9	Q24.3	07.05.30	Subpulmonary stenosis,
Subpulmonary stenosis due to restrictive ventricular septal defect in functionally univentricular heart,	to 281	07.05.31	746.9	Q24.3	07.05.30	Subpulmonary stenosis,

266 Right ventricular outflow tract obstruction

Right ventricular outflow tract obstruction,	to 281	07.05.01	746.8	Q24.8	07.05.01	Right ventricular outflow tract obstruction,
Right ventricular outflow tract obstruction due to septoparietal trabeculation (Fallot type),	to 281	07.05.16	746.8	Q24.3	07.05.01	Right ventricular outflow tract obstruction,
Right ventricular outflow tract obstruction: localised (or infundibul),	to 281	07.05.02	746.8	Q24.3	07.05.01	Right ventricular outflow tract obstruction,
Right ventricular outflow tract obstruction: tubular (tunnel),	to 281	07.05.03	746.8	Q24.3	07.05.01	Right ventricular outflow tract obstruction,
Right ventricular outflow tract obstruction due to malaligned outlet septum,	to 281	07.05.04	746.9	Q24.8	07.05.01	Right ventricular outflow tract obstruction,
Right ventricular outflow tract obstruction due to aneurysm of membranous septum,	to 281	07.05.05	746.9	Q24.8	07.05.01	Right ventricular outflow tract obstruction,
Right ventricular outflow tract obstruction due to atrioventricular valve,	to 281	07.05.06	746.9	Q24.8	07.05.01	Right ventricular outflow tract obstruction,
Right ventricular outflow tract obstruction due to common atrioventricular valve,	to 960	07.05.18	746.9	Q24.8	07.05.01	Right ventricular outflow tract obstruction,
Right ventricular outflow tract obstruction due to prolapsed arterial valve,	to 281	07.05.07	746.9	Q24.8	07.05.01	Right ventricular outflow tract obstruction,
Right ventricular outflow tract obstruction due to abnormal muscle bands,	to 281	07.05.08	746.9	Q24.8	07.05.01	Right ventricular outflow tract obstruction,
Right ventricular outflow tract obstruction due to septal hypertrophy,	to 281	07.05.09	746.8	Q24.3	07.05.01	Right ventricular outflow tract obstruction,
Right ventricular outflow tract obstruction due to fibromuscular shelf,	to 281	07.05.15	746.8	Q24.8	07.05.01	Right ventricular outflow tract obstruction,
Right ventricular outflow tract obstruction due to Eustachian valve windsock abnormality,	to 960	07.05.17	746.8	Q24.8	07.05.01	Right ventricular outflow tract obstruction,
Right ventricular outflow tract obstruction: dynamic,	to 960	07.05.19	746.8	Q24.8	07.05.01	Right ventricular outflow tract obstruction,
Right ventricular outflow tract obstruction: subaortic,	to 281	07.05.11	746.8	Q24.4	07.09.00	Subaortic stenosis,
Right ventricular outflow tract obstruction: subpulmonary,	to 281	07.05.12	746.8	Q24.3	07.05.30	Subpulmonary stenosis,
Right ventricular outflow tract obstruction related abnormality,	to 281	07.05.14	746.8	Q24.8	01.01.39	Cardiac abnormality,

End of branch

270 Left ventricular abnormalities

Left ventricular abnormality,	to 1	07.06.00	746.9	Q24.9	07.06.00	Left ventricular abnormality,
Left ventricular hypoplasia	to 272	not relevant				
Left ventricular 'abnormal' muscle bands	to 274	not relevant				
Left ventricular abnormality; congenital,	to 1	07.06.07	746.9	Q24.8	07.06.00	Left ventricular abnormality,
Hypoplastic left heart syndrome,	to 1	01.01.09	746.7	Q23.4	01.01.09	Hypoplastic left heart syndrome,
Hypoplasia of the left heart without intrinsic valvar stenosis or atresia,	to 1	07.06.17	746.7	Q23.4	01.01.09	Hypoplastic left heart syndrome,
Left ventricular dilation,	to 962	07.06.02	429.3	I5.7	10.16.40	Left ventricular abnormality; acquired,
Left ventricular hypertrophy,	to 962	07.06.05	429.3	I5.7	10.16.40	Left ventricular abnormality; acquired,
Primary left ventricular endocardial fibroelastosis,	to 1	07.06.04	425.3	M2.4	10.10.12	Endocardial fibroelastosis,
Left ventricular diverticulum: congenital,	to 1	07.06.03	746.8	Q24.8	07.06.00	Left ventricular abnormality,
Left ventricular aneurysm: congenital,	to 976	07.06.01	746.8	Q24.8	07.06.13	Left ventricular aneurysm,
Left ventricular submitral valvar aneurysm: congenital,	to 976	07.06.15	746.8	Q24.8	07.06.13	Left ventricular aneurysm,
Left ventricular subaortic aneurysm: congenital,	to 976	07.06.16	746.8	Q24.8	07.06.13	Left ventricular aneurysm,
Left ventricular dysfunction,	to 972	07.06.10	429.8	I5.8	07.06.10	Left ventricular dysfunction,
Left ventricular dysfunction: generalised,	to 972	07.06.08	429.8	I5.8	07.06.10	Left ventricular dysfunction,
Left ventricular dysfunction: regional,	to 972	07.06.09	429.8	I5.8	07.06.10	Left ventricular dysfunction,
Left ventricular dysfunction due to right ventricular interaction,	to 951	07.06.14	429.8	I5.8	07.06.10	Left ventricular dysfunction,
Left ventricular myocardial noncompaction cardiomyopathy,	to 668	07.06.11	425.4	M2.8	07.08.50	Ventricular myocardial noncompaction cardiomyopathy,
Left ventricular myocardial sinusoids,	to 1	07.06.12	746.9	Q24.8	07.06.00	Left ventricular abnormality,

272 Left ventricular hypoplasia

Left ventricular hypoplasia,	to 962	07.07.00	746.9	Q20.8	07.07.00	Left ventricular hypoplasia,
Left ventricular hypoplasia: diffuse,	to 962	07.07.01	746.9	Q20.8	07.07.00	Left ventricular hypoplasia,
Hypoplasia of left ventricular outflow tract,	to 962	07.07.02	746.9	Q20.8	07.07.00	Left ventricular hypoplasia,
Hypoplasia of left ventricular inflow tract,	to 962	07.07.03	746.9	Q20.8	07.07.00	Left ventricular hypoplasia,
Hypoplasia of trabecular portion and outflow tract of left ventricle,	to 962	07.07.04	746.9	Q20.8	07.07.00	Left ventricular hypoplasia,
Hypoplasia of trabecular portion of left ventricle,	to 962	07.07.06	746.9	Q20.8	07.07.00	Left ventricular hypoplasia,
Left ventricular hypoplasia related abnormality,	to 1	07.07.05	746.9	Q20.8	01.01.39	Cardiac abnormality,

274 Left ventricular 'abnormal' muscle bands

Left ventricular 'abnormal' muscle band(s),	to 1	07.08.01	746.9	Q24.8	07.06.00	Left ventricular abnormality,
Left ventricular 'abnormal' muscle band(s): anterolateral muscle,	to 1	07.08.02	746.9	Q24.8	07.06.00	Left ventricular abnormality,
Left ventricular 'abnormal' muscle band(s): false tendon,	to 1	07.08.03	746.9	Q24.8	07.06.00	Left ventricular abnormality,
Left ventricular 'abnormal' muscle band(s): posteromedial muscle,	to 1	07.08.04	746.9	Q24.8	07.06.00	Left ventricular abnormality,
Left ventricular 'abnormal' muscle band(s) related abnormality,	to 1	07.08.05	746.9	Q24.8	01.01.39	Cardiac abnormality,

End of branch

275 Left ventricular outflow tract abnormalities and subaortic stenosis

Left ventricular outflow tract obstruction and subaortic stenosis	to 276	not relevant				
Left ventricular outflow tract atresia,	to 1	07.08.06	746.8	Q24.8	07.09.01	Left ventricular outflow tract obstruction,
Left ventricular outflow tract abnormality,	to 1	07.08.07	746.8	Q24.8	07.06.00	Left ventricular abnormality,

276 Left ventricular outflow tract & subaortic obstruction

Left ventricular outflow tract obstruction,	to 281	07.09.01	746.8	Q24.8	07.09.01	Left ventricular outflow tract obstruction,
Subaortic stenosis,	to 281	07.09.00	746.8	Q24.4	07.09.00	Subaortic stenosis,
Subaortic stenosis due to fibromuscular shelf,	to 281	07.09.03	746.8	Q24.4	07.09.03	Subaortic stenosis due to fibromuscular shelf,
Subaortic stenosis due to fibromuscular tunnel,	to 281	07.09.16	746.8	Q24.4	07.09.00	Subaortic stenosis,
Subaortic stenosis due to common atrioventricular valve,	to 281	07.09.17	746.8	Q24.4	07.09.00	Subaortic stenosis,
Subaortic stenosis due to restrictive ventricular septal defect in functionally univentricular heart,	to 281	07.09.18	746.8	Q24.4	07.09.00	Subaortic stenosis,
Left ventricular outflow tract obstruction due to malaligned outlet septum,	to 281	07.09.02	746.8	Q24.8	07.09.01	Left ventricular outflow tract obstruction,
Left ventricular outflow tract obstruction due to subpulmonary fibromuscular shelf,	to 281	07.09.15	746.8	Q24.3	07.09.01	Left ventricular outflow tract obstruction,
Left ventricular outflow tract obstruction due to fibromuscular tunnel,	to 281	07.09.04	746.8	Q24.4	07.09.01	Left ventricular outflow tract obstruction,
Left ventricular outflow tract obstruction due to fibromuscular shelf,	to 281	07.09.27	746.8	Q24.4	07.09.01	Left ventricular outflow tract obstruction,
Left ventricular outflow tract obstruction due to septal hypertrophy,	to 281	07.09.05	425.1	M2.1	07.09.01	Left ventricular outflow tract obstruction,
Left ventricular outflow tract obstruction due to anterolateral muscle band,	to 281	07.09.06	746.9	Q24.8	07.09.01	Left ventricular outflow tract obstruction,

	Left ventricular outflow tract obstruction due to aneurysm of membranous septum,	to 281	07.09.07	746.9	Q24.8	07.09.01	Left ventricular outflow tract obstruction,
	Left ventricular outflow tract obstruction due to atrioventricular valve,	to 281	07.09.08	746.9	Q24.8	07.09.01	Left ventricular outflow tract obstruction,
	Left ventricular outflow tract obstruction due to prolapsed arterial valve,	to 281	07.09.09	746.9	Q24.8	07.09.01	Left ventricular outflow tract obstruction,
	Left ventricular outflow tract obstruction: subaortic,	to 281	07.09.10	746.8	Q24.4	07.09.00	Subaortic stenosis,
	Left ventricular outflow tract obstruction: subpulmonary,	to 281	07.09.11	746.8	Q24.3	07.05.30	Subpulmonary stenosis,
	Left ventricular outflow tract obstruction due to Eustachian valve windssock abnormality,	to 281	07.09.19	746.9	Q24.8	07.09.01	Left ventricular outflow tract obstruction,
	Left ventricular outflow tract obstruction related abnormality,	to 1	07.09.13	746.8	Q24.8	01.01.39	Cardiac abnormality,
280 @	Outflow tracts from ventricle of indeterminate morphology,						
	Outflow tract from solitary indeterminate ventricle abnormality,	to 1	07.08.20	746.9	Q24.9	01.01.39	Cardiac abnormality,
	Outflow tract from solitary indeterminate ventricle abnormality: congenital,	to 1	07.08.29	746.9	Q24.8	01.01.39	Cardiac abnormality,
	Obstruction to outflow from solitary indeterminate ventricle,	to 281	07.09.20	746.9	Q24.8	01.01.39	Cardiac abnormality,
	Obstruction to outflow from solitary indeterminate ventricle: subaortic,	to 281	07.09.21	746.9	Q24.8	07.09.00	Subaortic stenosis,
	Obstruction to outflow from solitary indeterminate ventricle: subpulmonary,	to 281	07.09.22	746.8	Q24.4	07.05.30	Subpulmonary stenosis,
	Obstruction to outflow from solitary indeterminate ventricle related abnormality,	to 281	07.09.29	746.8	Q24.3	01.01.39	Cardiac abnormality,
281 @	Nature of outflow tract obstruction - qualifiers						
	- dynamic,	to 960	Q1.81.61				not relevant
	- fixed,	to 960	Q1.81.62				not relevant
	- involving outlet portion of ventricle,	to 960	Q1.81.63				not relevant
	- extending to body of ventricle,	to 960	Q1.81.64				not relevant
	- extending to apex of ventricle,	to 960	Q1.81.65				not relevant
	- involving anterior leaflet of mitral valve,	to 960	Q1.81.66				not relevant
	- involving leaflet of tricuspid valve,	to 960	Q1.81.67				not relevant
	- involving leaflet of common atrioventricular valve,	to 960	Q1.81.68				not relevant
	- involving aortic valve cusp(s),	to 960	Q1.81.69				not relevant
	- not involving aortic valve cusp(s),	to 960	Q1.81.71				not relevant
	- involving pulmonary valve cusp(s),	to 960	Q1.81.70				not relevant
	- not involving pulmonary valve cusp(s),	to 960	Q1.81.74				not relevant
	- outflow tract obstruction with hypertrophic anterior septum,	to 960	Q1.81.72				not relevant
	- outflow tract obstruction without hypertrophic anterior septum,	to 960	Q1.81.73				not relevant
	- due to abnormal atrioventricular valvar attachment,	to 960	Q1.40.28				not relevant
	- due to atrioventricular valvar accessory tissue,	to 960	Q1.40.29				not relevant
	- due to atrioventricular valvar tissue tag,	to 960	Q1.40.30				not relevant
	no entry	to 960	not relevant				
	_____ End of branch _____						
285	Ventricular septal abnormalities						
	Ventricular septal defect (VSD)	to 288	not relevant				
	Intact ventricular septum,	to 1	07.21.00			07.21.00	Intact ventricular septum,
	Infundibular morphology	to 286	not relevant				
	Other abnormalities of ventricular septum	to 299	not relevant				
286 @	Infundibular morphology						
	Infundibular septum present,	to 1	07.17.00				not relevant
	Subpulmonary infundibulum: aorto-atrioventricular valvar continuity,	to 1	07.17.01				not relevant
	Subaortic infundibulum: pulmonary arterial-atrioventricular valvar continuity,	to 1	07.17.02				not relevant
	Bilateral muscular infundibulums,	to 1	07.17.03				not relevant
	Bilaterally deficient infundibulums: aorta & pulmonary arterial-atrioventricular valvar continuity,	to 1	07.17.04				not relevant
	Infundibular septum anterior deviation (Fallot type),	to 1	07.17.05	745.9	Q21.9		not relevant
	Infundibular septum posterior deviation (aortic arch obstruction type),	to 1	07.17.06	745.9	Q21.9		not relevant
	Infundibular septal hypoplasia,	to 1	07.17.07				not relevant
288	Ventricular septal defect (VSD)						
	Ventricular septal defect (VSD),	to 966	07.10.00	745.4	Q21.0	07.10.00	Ventricular septal defect (VSD),
	Number of ventricular septal defects (VSD)	to 289	not relevant				
	Characteristics of pulmonary-systemic blood flow (including Qp:Qs) - qualifiers	to 975	not relevant				
	Size and natural history of ventricular septal defect (VSD)	to 290	not relevant				
	Perimembranous ventricular septal defect (VSD)	to 293	not relevant				
	Ventricular septal defect (VSD) with malaligned or absent outlet septum	to 294	not relevant				
	Muscular ventricular septal defect (VSD)	to 295	not relevant				
	Subarterial and doubly committed ventricular septal defect (VSD)s	to 296	not relevant				
	VSD in double outlet ventriculo-arterial connection	to 297	not relevant				
	Inlet ventricular septal defect (VSD),	to 966	07.14.05	745.4	Q21.0	07.14.05	Inlet ventricular septal defect (VSD),
	Inlet ventricular septal defect (VSD) with atrioventricular septal malalignment (without common atrioventricular junction),	to 966	07.14.06	745.4	Q21.0	07.14.05	Inlet ventricular septal defect (VSD),
	Communication between left ventricle + right atrium (Gerbode defect),	to 966	07.14.02	745.4	Q21.0	07.14.02	Communication between left ventricle + right atrium (Gerbode defect),
	Pulmonary hypertension due to left to right shunt,	to 685	10.13.21	416.8	E7.8	10.13.21	Pulmonary hypertension due to left to right shunt,
	Ventricular septal defect (VSD) related abnormality,	to 1	07.14.09	746.8	Q24.8	01.01.39	Cardiac abnormality,
289	Number of ventricular septal defect (VSD)s						
	Single ventricular septal defect (VSD),	to 298	07.15.05	745.4	Q21.0	07.15.05	Single ventricular septal defect (VSD),
	Multiple ventricular septal defect (VSD)s,	to 298	07.15.04	745.4	Q21.0	07.15.04	Multiple ventricular septal defect (VSD)s,
	Multiple ventricular septal defect (VSD)s: 2,	to 298	07.15.21	745.4	Q21.0	07.15.04	Multiple ventricular septal defect (VSD)s,
	Multiple ventricular septal defect (VSD)s: 3,	to 298	07.15.22	745.4	Q21.0	07.15.04	Multiple ventricular septal defect (VSD)s,
	Multiple ventricular septal defect (VSD)s: 4,	to 298	07.15.23	745.4	Q21.0	07.15.04	Multiple ventricular septal defect (VSD)s,
	Multiple ventricular septal defect (VSD)s: 5,	to 298	07.15.24	745.4	Q21.0	07.15.04	Multiple ventricular septal defect (VSD)s,
	Multiple ventricular septal defect (VSD)s: 6,	to 298	07.15.25	745.4	Q21.0	07.15.04	Multiple ventricular septal defect (VSD)s,
	Multiple ventricular septal defect (VSD)s: more than 6,	to 298	07.15.26	745.4	Q21.0	07.15.04	Multiple ventricular septal defect (VSD)s,
290	Size and natural history of ventricular septal defect (VSD)						
	Restrictive ventricular septal defect (VSD),	to 960	07.14.01	745.4	Q21.0	07.10.00	Ventricular septal defect (VSD),
	Nonrestrictive ventricular septal defect (VSD),	to 288	07.14.04	745.4	Q21.0	07.10.00	Ventricular septal defect (VSD),
	Giant ventricular septal defect (VSD) with (nearly) absent ventricular septum,	to 288	07.14.03	745.4	Q21.0	07.10.00	Ventricular septal defect (VSD),
	Specific ventricular septal defect (VSD) size and function qualifier codes	to 966	not relevant				
	Spontaneous reduction of ventricular septal defect (VSD) size	to 291	not relevant				
	Spontaneous closure of ventricular septal defect (VSD)	to 292	not relevant				
291 @	Cause of spontaneous reduction of ventricular septal defect (VSD) size						
	Spontaneous reduction of ventricular septal defect (VSD) size,	to 1	07.15.10				not relevant
	Spontaneous reduction of ventricular septal defect (VSD) size by atrioventricular valve accessory tissue,	to 1	07.15.11				not relevant
	Spontaneous reduction of ventricular septal defect (VSD) size by membranous septum tissue,	to 1	07.15.12				not relevant
	Spontaneous reduction of ventricular septal defect (VSD) size by fibromuscular reaction,	to 1	07.15.13				not relevant
	Spontaneous reduction of ventricular septal defect (VSD) size by prolapsed aortic valve cusp,	to 1	07.15.15				not relevant
292 @	Cause of spontaneous closure of ventricular septal defect (VSD)						
	Spontaneous closure of ventricular septal defect (VSD),	to 1	07.16.01	V13.6	Z87.7	07.16.01	Spontaneous closure of ventricular septal defect (VSD),
	Spontaneous closure of ventricular septal defect (VSD) by atrioventricular valve accessory tissue,	to 1	07.16.02	V13.6	Z87.7	07.16.01	Spontaneous closure of ventricular septal defect (VSD),
	Spontaneous closure of ventricular septal defect (VSD) by membranous septum tissue,	to 1	07.16.04	V13.6	Z87.7	07.16.01	Spontaneous closure of ventricular septal defect (VSD),
	Spontaneous closure of ventricular septal defect (VSD) by fibromuscular reaction,	to 1	07.16.03	V13.6	Z87.7	07.16.01	Spontaneous closure of ventricular septal defect (VSD),
	Spontaneous closure of ventricular septal defect (VSD) by prolapsed aortic valve cusp,	to 1	07.16.06	V13.6	Z87.7	07.16.01	Spontaneous closure of ventricular septal defect (VSD),
293	Perimembranous VSD						
	Perimembranous ventricular septal defect (VSD),	to 966	07.10.01	754.4	Q21.0	07.10.01	Perimembranous ventricular septal defect (VSD),
	Perimembranous ventricular septal defect (VSD): small,	to 966	07.15.03	754.4	Q21.0	07.10.01	Perimembranous ventricular septal defect (VSD),
	Perimembranous ventricular septal defect (VSD) without extension (conoverricular),	to 966	07.10.16	754.4	Q21.0	07.10.01	Perimembranous ventricular septal defect (VSD),
	Perimembranous ventricular septal defect (VSD) with extension to right ventricular inlet (posterior),	to 966	07.10.02	745.4	Q21.0	07.10.01	Perimembranous ventricular septal defect (VSD),
	Perimembranous ventricular septal defect (VSD) with right ventricular apical trabecular extension (anterior),	to 966	07.10.03	745.4	Q21.0	07.10.01	Perimembranous ventricular septal defect (VSD),
	Perimembranous ventricular septal defect (VSD) with extension to right ventricular outlet (cranial),	to 294	07.10.04	745.4	Q21.0	07.10.01	Perimembranous ventricular septal defect (VSD),
	Perimembranous ventricular septal defect (VSD) with extension to all right ventricular septal components (confluent),	to 966	07.10.05	745.4	Q21.0	07.10.01	Perimembranous ventricular septal defect (VSD),
	Perimembranous ventricular septal defect (VSD) related abnormality,	to 1	07.10.11	746.8	Q24.8	01.01.39	Cardiac abnormality,
294	VSD with malaligned or absent outlet septum						
	Ventricular septal defect (VSD) + malaligned outlet septum (conoverricular),	to 973	07.10.12	745.4	Q21.0	07.10.12	Ventricular septal defect (VSD) + malaligned outlet septum,
	Infundibular septum anterior deviation (Fallot type),	to 1	07.17.05	745.9	Q21.9		not relevant
	Ventricular septal defect (VSD) + malaligned outlet septum anteriorly,	to 973	07.10.17	745.4	Q21.0	07.10.12	Ventricular septal defect (VSD) + malaligned outlet septum,
	Ventricular septal defect (VSD) + malaligned outlet septum anteriorly: overriding subaortic outflow (Fallot type),	to 973	07.10.08	745.4	Q21.0	07.10.12	Ventricular septal defect (VSD) + malaligned outlet septum,
	Ventricular septal defect (VSD) + malaligned outlet septum anteriorly: overriding subpulmonary outflow,	to 973	07.10.09	745.4	Q21.0	07.10.12	Ventricular septal defect (VSD) + malaligned outlet septum,
	Infundibular septum posterior deviation (aortic arch obstruction type),	to 1	07.17.06	745.9	Q21.9		not relevant
	Ventricular septal defect (VSD) + malaligned outlet septum posteriorly,	to 973	07.10.18	745.4	Q21.0	07.10.12	Ventricular septal defect (VSD) + malaligned outlet septum,
	Ventricular septal defect (VSD) + malaligned outlet septum posteriorly: overriding subaortic outflow,	to 973	07.10.06	745.4	Q21.0	07.10.12	Ventricular septal defect (VSD) + malaligned outlet septum,
	Ventricular septal defect (VSD) + malaligned outlet septum posteriorly: overriding subpulmonary outflow,	to 973	07.10.07	745.4	Q21.0	07.10.12	Ventricular septal defect (VSD) + malaligned outlet septum,
	Ventricular septal defect (VSD) + overriding truncal valve (absent outlet septum),	to 973	07.10.10	745.4	Q21.0	07.10.12	Ventricular septal defect (VSD) + malaligned outlet septum,
	Ventricular septal defect (VSD) + overriding truncal valve (absent outlet septum) with inferior muscular rim,	to 973	07.10.14	745.4	Q21.0	07.10.12	Ventricular septal defect (VSD) + malaligned outlet septum,
	Ventricular septal defect (VSD) + overriding truncal valve (absent outlet septum) with membranous septum extension,	to 973	07.10.15	745.4	Q21.0	07.10.12	Ventricular septal defect (VSD) + malaligned outlet septum,
	Ventricular septal defect (VSD) + malaligned outlet septum related abnormality,	to 973	07.10.13	746.8	Q24.8	01.01.39	Cardiac abnormality,
	no entry	to 1	not relevant				

295	Muscular VSD							
	Muscular ventricular septal defect (VSD).	to 966	07.11.01	745.4	Q21.0	07.11.01	Muscular ventricular septal defect (VSD).	
	Muscular ventricular septal defect (VSD): small.	to 966	07.15.02	745.4	Q21.0	07.11.01	Muscular ventricular septal defect (VSD).	
	Muscular ventricular septal defect (VSD) in inlet septum.	to 966	07.11.02	745.4	Q21.0	07.11.01	Muscular ventricular septal defect (VSD).	
	Muscular ventricular septal defect (VSD) in trabecular septum.	to 966	07.11.10	745.4	Q21.0	07.11.01	Muscular ventricular septal defect (VSD).	
	Muscular ventricular septal defect (VSD) in mid trabecular septum.	to 966	07.11.04	745.4	Q21.0	07.11.01	Muscular ventricular septal defect (VSD).	
	Muscular ventricular septal defect (VSD) in apical trabecular septum.	to 966	07.11.03	745.4	Q21.0	07.11.01	Muscular ventricular septal defect (VSD).	
	Muscular ventricular septal defect (VSD) in anterior septum.	to 966	07.11.07	745.4	Q21.0	07.11.01	Muscular ventricular septal defect (VSD).	
	Muscular ventricular septal defect (VSD) in outlet septum.	to 294	07.11.06	745.4	Q21.0	07.11.01	Muscular ventricular septal defect (VSD).	
	Muscular ventricular septal defect (VSD) in posterior/inlet trabecular septum.	to 966	07.11.12	745.4	Q21.0	07.11.01	Muscular ventricular septal defect (VSD).	
	Muscular ventricular septal defect (VSD): confluent.	to 966	07.11.09	745.4	Q21.0	07.11.01	Muscular ventricular septal defect (VSD).	
	Muscular ventricular septal defect (VSD): multiple trabecular (Swiss cheese).	to 966	07.11.05	745.4	Q21.0	07.15.04	Multiple ventricular septal defect (VSD)s.	
	Muscular ventricular septal defect (VSD) related abnormality.	to 1	07.11.08	746.8	Q24.8	01.01.39	Cardiac abnormality.	
296	Subarterial and doubly committed VSDs							
	Subarterial ventricular septal defect (VSD).	to 966	07.12.00	745.4	Q21.0	07.12.00	Subarterial ventricular septal defect (VSD).	
	Doubly committed subarterial ventricular septal defect (VSD).	to 966	07.12.01	745.4	Q21.0	07.12.01	Doubly committed subarterial ventricular septal defect (VSD).	
	Doubly committed subarterial ventricular septal defect (VSD) + membranous septum extension.	to 966	07.12.03	745.4	Q21.0	07.12.01	Doubly committed subarterial ventricular septal defect (VSD).	
	Doubly committed subarterial ventricular septal defect (VSD) + muscular posterior inferior rim.	to 966	07.12.02	745.4	Q21.0	07.12.01	Doubly committed subarterial ventricular septal defect (VSD).	
	Doubly committed subarterial ventricular septal defect (VSD) related abnormality.	to 1	07.12.04	746.8	Q24.8	01.01.39	Cardiac abnormality.	
297 @	Ventricular septal defect (VSD) in double outlet ventriculo-arterial connection							
	Ventricular septal defect (VSD) in double outlet ventriculo-arterial connection.	to 966	07.13.01	745.4	Q21.0	07.10.00	Ventricular septal defect (VSD).	
	Ventricular septal defect (VSD) in double outlet ventriculo-arterial connection: subpulmonary.	to 966	07.13.05	745.4	Q21.0	07.10.12	Ventricular septal defect (VSD) + malaligned outlet septum.	
	Ventricular septal defect (VSD) in double outlet ventriculo-arterial connection: subaortic.	to 966	07.13.04	745.4	Q21.0	07.10.12	Ventricular septal defect (VSD) + malaligned outlet septum.	
	Ventricular septal defect (VSD) in double outlet ventriculo-arterial connection: doubly committed.	to 966	07.13.02	745.4	Q21.0	07.10.12	Ventricular septal defect (VSD) + malaligned outlet septum.	
	Ventricular septal defect (VSD) in double outlet ventriculo-arterial connection: non-committed.	to 966	07.13.03	745.4	Q21.0	07.11.01	Muscular ventricular septal defect (VSD).	
	Ventricular septal defect (VSD) in double outlet ventriculo-arterial connection related abnormality.	to 1	07.13.06	746.8	Q24.8	01.01.39	Cardiac abnormality.	
298 @	Quantification of ventricular septal defect (VSD)s - qualifiers							
	- as viewed from right ventricular side.	to 288	Q1.07.51				not relevant	
	- as viewed from left ventricular side.	to 288	Q1.07.52				not relevant	
	- ventricular side of ventricular septal defect visualisation unspecified-unknown.	to 288	Q1.07.53				not relevant	
	no entry	to 288	not relevant					
299	Other abnormalities of ventricular septum							
	Ventricular septal abnormality.	to 1	07.20.00	745.9	Q21.9	07.20.00	Ventricular septal abnormality.	
	Ventricular septal abnormality: congenital.	to 1	07.20.04	745.9	Q21.9	07.20.00	Ventricular septal abnormality.	
	Aneurysm of membranous septum.	to 1	07.20.01	745.9	Q21.9	07.20.01	Aneurysm of membranous septum.	
	Aneurysm of muscular septum.	to 1	07.20.02	745.9	Q21.9	07.20.00	Ventricular septal abnormality.	
	Ventricular septal hypertrophy.	to 1	07.20.03	429.3	I51.7	07.20.00	Ventricular septal abnormality.	
	Ventricular septum: thin.	to 1	07.20.05	745.9	Q21.9	07.20.00	Ventricular septal abnormality.	
	Ventricular septum: abnormal motion.	to 1	07.20.06	745.9	Q21.9	07.20.00	Ventricular septal abnormality.	
	Ventricular septum: paradoxical motion.	to 1	07.20.07	745.9	Q21.9	07.20.00	Ventricular septal abnormality.	

	End of branch							
300	Arterial valvar and great arterial abnormalities							
	Aorto-pulmonary window	to 305	not relevant					
	Common arterial trunk (truncus arteriosus)	to 310	not relevant					
	Pulmonary valvar, trunk and arterial abnormalities	to 330	not relevant					
	Anomalous origin of pulmonary artery (not common arterial trunk)	to 360	not relevant					
	Aortic valvar, aortic, aortic arch & branches abnormalities	to 370	not relevant					
	Coronary arterial abnormalities	to 455	not relevant					
	Arterial duct (ductus arteriosus) abnormalities	to 475	not relevant					
	Generic systemic and distal systemic arterial abnormalities (including MAPCAs)	to 485	not relevant					
	Overriding ventriculo-arterial valve.	to 973	09.04.21	746.9	Q24.8	01.01.39	Cardiac abnormality.	
	Overriding right-sided ventriculo-arterial valve.	to 973	09.04.23	746.9	Q24.8	01.01.39	Cardiac abnormality.	
	Overriding left-sided ventriculo-arterial valve.	to 973	09.04.24	746.9	Q24.8	01.01.39	Cardiac abnormality.	
	Imperforate ventriculo-arterial valve.	to 1	09.04.22	746.9	Q24.8	01.01.39	Cardiac abnormality.	
	Imperforate right-sided ventriculo-arterial valve.	to 1	09.04.26	746.9	Q24.8	01.01.39	Cardiac abnormality.	
	Imperforate left-sided ventriculo-arterial valve.	to 1	09.04.25	746.9	Q24.8	01.01.39	Cardiac abnormality.	
	Congenital abnormality of ventriculo-arterial valves or their outflow tracts.	to 1	09.04.27	746.9	Q24.8	01.01.39	Cardiac abnormality.	
	Congenital abnormality of great arteries (including arterial duct).	to 1	09.04.28	746.9	Q24.8	01.01.39	Cardiac abnormality.	
305	Aorto-pulmonary window							
	Aorto-pulmonary window.	to 1	09.04.01	745	Q21.4	09.04.01	Aorto-pulmonary window.	
	Aorto-pulmonary window: proximal with little inferior rim.	to 1	09.04.02	745	Q21.4	09.04.01	Aorto-pulmonary window.	
	Aorto-pulmonary window: distal with little superior rim.	to 1	09.04.03	745	Q21.4	09.04.01	Aorto-pulmonary window.	
	Aorto-pulmonary window: confluent with little superior & inferior rims.	to 1	09.04.04	745	Q21.4	09.04.01	Aorto-pulmonary window.	
	Aorto-pulmonary window: intermediate with adequate superior & inferior rims.	to 1	09.04.05	745	Q21.4	09.04.01	Aorto-pulmonary window.	
	Aorto-pulmonary window: with tubular connection ("neck").	to 1	09.04.06	745	Q21.4	09.04.01	Aorto-pulmonary window.	
	Aorto-pulmonary window related abnormality.	to 1	09.04.09	746.9	Q24.8	01.01.39	Cardiac abnormality.	
	Coronary arterial abnormalities	to 455	not relevant					
	Aortic arch abnormalities	to 390	not relevant					
310	Common arterial trunk (truncus arteriosus)							
	Common arterial trunk (truncus arteriosus).	to 315	09.01.01	745	Q20.0	09.01.01	Common arterial trunk (truncus arteriosus).	
	Common arterial trunk (truncus): pulmonary arteries from trunk & unobstructed aortic arch.	to 315	09.01.10	745	Q20.0	09.01.01	Common arterial trunk (truncus arteriosus).	
	Common arterial trunk (truncus) + common origin of pulmonary arteries (type I).	to 315	09.01.02	745	Q20.0	09.01.01	Common arterial trunk (truncus arteriosus).	
	Common arterial trunk (truncus) + separate origin of pulmonary arteries (type II).	to 315	09.01.03	745	Q20.0	09.01.01	Common arterial trunk (truncus arteriosus).	
	Common arterial trunk (truncus) + widely separate origin of pulmonary arteries (type III).	to 315	09.01.04	745	Q20.0	09.01.01	Common arterial trunk (truncus arteriosus).	
	Common arterial trunk (truncus) with intact ventricular septum.	to 315	09.01.05	745	Q20.0	09.01.01	Common arterial trunk (truncus arteriosus).	
	Common arterial trunk (truncus) with isolated (discontinuous) pulmonary arteries.	to 315	09.01.11	745	Q20.0	09.01.01	Common arterial trunk (truncus arteriosus).	
	Common arterial trunk (truncus) with isolated (discontinuous) right pulmonary artery.	to 315	09.01.06	745	Q20.0	09.01.01	Common arterial trunk (truncus arteriosus).	
	Common arterial trunk (truncus) with isolated (discontinuous) left pulmonary artery.	to 315	09.01.07	745	Q20.0	09.01.01	Common arterial trunk (truncus arteriosus).	
	Common arterial trunk (truncus) with aortic arch obstruction-interruption.	to 315	09.01.12	745	Q20.0	09.01.01	Common arterial trunk (truncus arteriosus).	
	Common arterial trunk (truncus) with pulmonary origin from truncal valve sinus.	to 315	09.01.08	745	Q20.0	09.01.01	Common arterial trunk (truncus arteriosus).	
	Common arterial trunk (truncus) with crossed over pulmonary arteries.	to 315	09.01.09	745	Q20.0	09.01.01	Common arterial trunk (truncus arteriosus).	
	Ventricular septal defect (VSD) + overriding truncal valve (absent outlet septum).	to 973	07.10.10	745.4	Q21.0	07.10.12	Ventricular septal defect (VSD) + malaligned outlet septum.	
	Ventricular septal defect (VSD) + overriding truncal valve (absent outlet septum) with inferior muscular rim.	to 973	07.10.14	745.4	Q21.0	07.10.12	Ventricular septal defect (VSD) + malaligned outlet septum.	
	Ventricular septal defect (VSD) + overriding truncal valve (absent outlet septum) with membranous septum extension.	to 973	07.10.15	745.4	Q21.0	07.10.12	Ventricular septal defect (VSD) + malaligned outlet septum.	
	Coronary arterial abnormalities in common arterial trunk	to 455	not relevant					
315	Truncal valvar abnormalities							
	Truncal valvar abnormality.	to 1	09.02.00	746.9	Q24.8	09.02.00	Truncal valvar abnormality.	
	Truncal valve abnormality: congenital.	to 1	09.02.10	746.9	Q24.8	09.02.00	Truncal valvar abnormality.	
	Truncal valvar dysplasia (mucoid thickening).	to 385	09.02.01	746.9	Q24.8	09.02.00	Truncal valvar abnormality.	
	Truncal valvar stenosis.	to 960	09.02.02	746.9	Q24.8	09.02.00	Truncal valvar abnormality.	
	Truncal valvar regurgitation.	to 963	09.02.03	746.9	Q24.8	09.02.03	Truncal valvar regurgitation.	
	Truncal valvar prolapse.	to 385	09.02.04	746.9	Q24.8	09.02.00	Truncal valvar abnormality.	
	Accessory tissue on truncal valve cusp.	to 385	09.02.05	746.9	Q24.8	09.02.00	Truncal valvar abnormality.	
	Truncal valve cusp fenestration.	to 385	09.02.12	746.9	Q24.8	09.02.00	Truncal valvar abnormality.	
	Truncal valve cusp deficiency: congenital.	to 385	09.02.13	746.9	Q24.8	09.02.00	Truncal valvar abnormality.	
	Truncal valvar cusp abnormality.	to 388	09.02.14	746.9	Q24.8	09.02.00	Truncal valvar abnormality.	
	Truncal valve commissures fused (dome shaped).	to 385	09.02.15	746.9	Q24.8	09.02.00	Truncal valvar abnormality.	
	Truncal valve overriding ventricular septum.	to 973	09.02.16	746.9	Q24.8	09.02.00	Truncal valvar abnormality.	
	Number of truncal valve cusps	to 320	not relevant					
	no entry	to 1	not relevant					
320 @	Number of truncal valve cusps							
	Bicuspid truncal valve.	to 1	09.02.06			09.02.00	Truncal valvar abnormality.	
	Tricuspid truncal valve.	to 1	09.02.07			09.02.00	Truncal valvar abnormality.	
	Quadracuspid truncal valve.	to 1	09.02.08			09.02.00	Truncal valvar abnormality.	
	Truncal valve with more than 4 cusps.	to 1	09.02.09			09.02.00	Truncal valvar abnormality.	

	End of branch							
330	Pulmonary valvar, trunk and arterial abnormalities							
	Pulmonary atresia	to 332	not relevant					
	Pulmonary valvar abnormalities	to 335	not relevant					
	Pulmonary trunk (MPA) abnormalities	to 340	not relevant					
	Pulmonary arterial abnormalities	to 350	not relevant					
	Subpulmonary stenosis.	to 960	07.05.30	746.9	Q24.3	07.05.30	Subpulmonary stenosis.	
	Pulmonary outflow tract obstruction.	to 1	09.05.10	747.3	Q25.6	09.07.13	Supravalvar pulmonary trunk stenosis.	
	Congenital pulmonary trunk or pulmonary arterial abnormality.	to 1	09.07.16	747.3	Q25.7	09.10.00	Pulmonary arterial abnormality.	

332 Pulmonary atresia						
Pulmonary atresia,	to 1	09.05.11	746.0	Q22.0	09.05.11	Pulmonary atresia.
Pulmonary atresia: imperforate valve,	to 1	09.05.12	746	Q22.0	09.05.12	Pulmonary atresia: imperforate valve,
Muscular (subvalvar) pulmonary atresia,	to 1	09.05.13	745.2	Q22.0	09.05.11	Pulmonary atresia.
Pulmonary atresia + ventricular septal defect (VSD) (including Fallot type),	to 288	01.01.06	745.2	Q21.3	01.01.06	Pulmonary atresia + ventricular septal defect (VSD) (including Fallot type),
Pulmonary atresia + ventricular septal defect (VSD): Fallot type,	to 288	01.01.26	745.2	Q21.3	01.01.06	Pulmonary atresia + ventricular septal defect (VSD) (including Fallot type),
Pulmonary atresia + ventricular septal defect (VSD) + systemic-to-pulmonary collateral artery(ies) (MAPCA(s)),	to 489	01.01.25	745.2	747.9	Q27.8	01.01.25
Pulmonary atresia + ventricular septal defect (VSD): Fallot type with native pulmonary arteries present,	to 288	01.01.55	745.2	Q21.3	01.01.06	Pulmonary atresia + ventricular septal defect (VSD) (including Fallot type),
Pulmonary atresia + ventricular septal defect (VSD): aorta from right ventricle,	to 288	01.01.27	745.2	Q21.3	01.01.06	Pulmonary atresia + ventricular septal defect (VSD) (including Fallot type),
Pulmonary atresia + ventricular septal defect (VSD): aorta from left ventricle,	to 288	01.01.28	745.2	Q21.3	01.01.06	Pulmonary atresia + ventricular septal defect (VSD) (including Fallot type),
Pulmonary atresia + intact ventricular septum,	to 1	01.01.07	746	Q22.0	01.01.07	Pulmonary atresia + intact ventricular septum,
Pulmonary atresia + virtually intact ventricular septum (tiny ventricular septal defect),	to 288	01.01.29	746	Q22.0	01.01.07	Pulmonary atresia + intact ventricular septum,
Pulmonary atresia: acquired,	to 1	09.05.15	424.3	Q27.8	09.05.15	Pulmonary atresia: acquired,
Pulmonary atresia related abnormality,	to 1	09.05.14	746.8	Q24.8	01.01.39	Cardiac abnormality,
Coronary fistula(s) & sinusoids	to 462	not relevant				
Right ventricular hypoplasia and parite characteristics	to 262	not relevant				
335 Pulmonary valvar abnormalities						
Pulmonary valvar abnormality,	to 1	09.05.00	746	Q22.3	09.05.00	Pulmonary valvar abnormality,
Pulmonary valvar abnormality: congenital,	to 1	09.05.29	746	Q22.3	09.05.00	Pulmonary valvar abnormality,
Pulmonary valvar stenosis: congenital,	to 960	09.05.04	746	Q22.1	09.05.04	Pulmonary valvar stenosis: congenital,
Pulmonary valvar annulus: hypoplasia,	to 955	09.05.05	746	Q22.1	09.05.04	Pulmonary valvar stenosis: congenital,
Pulmonary valvar annulus: dilation,	to 1	09.05.45	746	Q22.3	09.05.00	Pulmonary valvar abnormality,
Pulmonary valve commissures fused (dome shaped),	to 385	09.05.06	746	Q22.1	09.05.04	Pulmonary valvar stenosis: congenital,
Pulmonary valve commissures partially fused,	to 385	09.05.46	746	Q22.1	09.05.04	Pulmonary valvar stenosis: congenital,
Pulmonary valve commissures completely fused,	to 385	09.05.47	746	Q22.1	09.05.04	Pulmonary valvar stenosis: congenital,
Normal separation of pulmonary valve commissures,	to 385	09.05.48	746	Q22.3	09.05.00	Pulmonary valvar abnormality,
Eccentric opening of tricuspid pulmonary valve,	to 1	09.05.49	746	Q22.3	09.05.00	Pulmonary valvar abnormality,
Pulmonary valve overriding ventricular septum,	to 973	09.05.52	746	Q22.3	09.05.00	Pulmonary valvar abnormality,
Pulmonary regurgitation: congenital,	to 963	09.05.22	746	Q22.2	09.05.22	Pulmonary regurgitation: congenital,
Pulmonary valvar prolapse,	to 385	09.05.23	746	Q22.3	09.05.00	Pulmonary valvar abnormality,
Absent pulmonary valve syndrome: Fallot-type,	to 288	09.05.25	746.8	746.0	Q24.8	09.05.25
Absent pulmonary valve syndrome: non-Fallot ventricular septal defect (VSD),	to 288	09.05.28	746.8	746.0	Q22.3	09.05.25
Absent pulmonary valve syndrome: intact ventricular septum,	to 1	09.05.36	746.8	Q24.8	09.05.25	Absent pulmonary valve syndrome: Fallot-type,
Pulmonary valve cusps: number and pathology	to 338	not relevant				Absent pulmonary valve syndrome: Fallot-type,
338 Pulmonary valve cusps: number and pathology						
Tricuspid pulmonary valve,	to 1	09.05.33			not relevant	
Unicuspid pulmonary valve,	to 1	09.05.31	746	Q22.3	09.05.00	Pulmonary valvar abnormality,
Unicuspid pulmonary valve: acommisural (domed),	to 1	09.05.41	746	Q22.3	09.05.00	Pulmonary valvar abnormality,
Unicuspid pulmonary valve: unicommissural,	to 1	09.05.42	746	Q22.3	09.05.00	Pulmonary valvar abnormality,
Bicuspid pulmonary valve,	to 1	09.05.32	746	Q22.3	09.05.00	Pulmonary valvar abnormality,
Bicuspid pulmonary valve: anterior-posterior orientation,	to 1	09.05.43	746	Q22.3	09.05.00	Pulmonary valvar abnormality,
Bicuspid pulmonary valve: right-left orientation,	to 1	09.05.44	746	Q22.3	09.05.00	Pulmonary valvar abnormality,
Quadracuspid pulmonary valve,	to 1	09.05.34	746	Q22.3	09.05.00	Pulmonary valvar abnormality,
Pulmonary valve with more than 4 cusps,	to 1	09.05.51	746	Q22.3	09.05.00	Pulmonary valvar abnormality,
Pulmonary valve cusps: dysplastic (mucoid thickening),	to 1	09.05.24	746	Q22.3	09.05.00	Pulmonary valvar abnormality,
Accessory tissue on pulmonary cusp,	to 385	09.05.26	746	Q22.3	09.05.00	Pulmonary valvar abnormality,
Pulmonary valve cusp fenestration,	to 385	09.05.37	746	Q22.3	09.05.00	Pulmonary valvar abnormality,
Pulmonary valve cusp deficiency: congenital,	to 385	09.05.38	746	Q22.3	09.05.00	Pulmonary valvar abnormality,
Pulmonary cusp(s) hypoplasia,	to 385	09.05.21	746	Q22.2	09.05.00	Pulmonary valvar abnormality,
Rudimentary pulmonary cusps (absent pulmonary valve type),	to 385	09.05.50	746	Q22.2	09.05.00	Pulmonary valvar abnormality,
Pulmonary valve cusp(s) absent,	to 385	09.05.27	746	Q22.3	09.05.00	Pulmonary valvar abnormality,
Pulmonary valve cusp abnormality,	to 388	09.05.40	746	Q22.3	09.05.00	Pulmonary valvar abnormality,
Pulmonary valve cusp abnormality: congenital,	to 388	09.05.35	746	Q22.3	09.05.00	Pulmonary valvar abnormality,
End of branch						
340 Pulmonary trunk (MPA) abnormalities						
Pulmonary trunk (MPA) abnormality,	to 1	09.07.00	747.3	Q25.7	09.07.00	Pulmonary trunk (MPA) abnormality,
Pulmonary trunk abnormality: congenital,	to 1	09.07.19	747.3	Q25.7	09.07.00	Pulmonary trunk (MPA) abnormality,
Pulmonary trunk present,	to 1	09.07.14			not relevant	
Supravalvar pulmonary trunk stenosis,	to 960	09.07.13	747.3	Q25.6	09.07.13	Supravalvar pulmonary trunk stenosis,
Supravalvar pulmonary trunk stenosis: congenital,	to 960	09.07.15	747.3	Q25.6	09.07.13	Supravalvar pulmonary trunk stenosis,
Pulmonary trunk hypoplasia,	to 962	09.07.11	747.3	Q25.7	09.07.11	Pulmonary trunk hypoplasia,
Pulmonary trunk atresia	to 342	not relevant				
Pulmonary trunk absent	to 346	not relevant				
Pulmonary trunk dilation,	to 962	09.07.12	747.3	Q25.7	09.07.00	Pulmonary trunk (MPA) abnormality,
342 Pulmonary trunk atresia						
Pulmonary trunk atresia,	to 1	09.07.01	747.3	Q25.5	09.07.00	Pulmonary trunk (MPA) abnormality,
Pulmonary trunk atresia with confluent pulmonary arteries,	to 1	09.07.02	747.3	Q25.5	09.07.00	Pulmonary trunk (MPA) abnormality,
Pulmonary trunk atresia with absent pulmonary artery,	to 1	09.07.06	747.3	Q25.5	09.07.00	Pulmonary trunk (MPA) abnormality,
Pulmonary trunk atresia with absent right pulmonary artery,	to 1	09.07.03	747.3	Q25.5	09.07.00	Pulmonary trunk (MPA) abnormality,
Pulmonary trunk atresia with absent left pulmonary artery,	to 1	09.07.04	747.3	Q25.5	09.07.00	Pulmonary trunk (MPA) abnormality,
346 Pulmonary trunk absent						
Pulmonary trunk absent,	to 1	09.07.21	747.3	Q25.7	09.07.00	Pulmonary trunk (MPA) abnormality,
Pulmonary trunk absent with confluent pulmonary arteries,	to 1	09.07.22	747.3	Q25.7	09.07.00	Pulmonary trunk (MPA) abnormality,
Pulmonary trunk absent with non-confluent pulmonary arteries,	to 1	09.07.23	747.3	Q25.7	09.07.00	Pulmonary trunk (MPA) abnormality,
Pulmonary trunk absent with absent pulmonary artery,	to 1	09.07.28	747.3	Q25.7	09.07.00	Pulmonary trunk (MPA) abnormality,
Pulmonary trunk absent with absent right pulmonary artery,	to 1	09.07.24	747.3	Q25.7	09.07.00	Pulmonary trunk (MPA) abnormality,
Pulmonary trunk absent with absent left pulmonary artery,	to 1	09.07.25	747.3	Q25.7	09.07.00	Pulmonary trunk (MPA) abnormality,
Solitary arterial trunk (absent intrapericardial pulmonary arteries),	to 1	09.07.26	745.2	Q25.7	09.07.26	Solitary arterial trunk (absent intrapericardial pulmonary arteries),
End of branch						
350 Pulmonary arterial abnormalities						
Pulmonary arterial abnormality,	to 1	09.10.00	747.3	Q25.7	09.10.00	Pulmonary arterial abnormality,
Pulmonary arterial abnormality: congenital,	to 1	09.10.41	747.3	Q25.7	09.10.00	Pulmonary arterial abnormality,
Confluent pulmonary arteries,	to 1	09.10.45			not relevant	
Discontinuous (non-confluent) pulmonary arteries,	to 353	09.10.10	747.3	Q25.7	09.10.10	Discontinuous (non-confluent) pulmonary arteries,
Pulmonary arterial stenosis	to 352	not relevant				
Pulmonary arterial hypoplasia	to 355	not relevant				
Pulmonary artery absent	to 356	not relevant				
Pulmonary arterial dilation	to 357	not relevant				
Anomalous origin of pulmonary artery (not common arterial trunk)	to 360	not relevant				
Pulmonary arteriovenous fistula (malformation),	to 3300	09.19.05	747.3	Q25.7	09.19.05	Pulmonary arteriovenous fistula (malformation),
Pulmonary arterial aneurysm: congenital,	to 1	09.10.42	747.3	Q25.7	09.10.44	Pulmonary arterial aneurysm,
Pulmonary arterial tortuosity,	to 353	09.10.43	747.3	Q25.7	09.10.00	Pulmonary arterial abnormality,
Pulmonary arterial stenosis or hypoplasia,	to 353	09.10.46	747.3	Q25.7	09.10.00	Pulmonary arterial abnormality,
Pulmonary to coronary collateral artery(ies),	to 467	09.10.47	747.3	Q25.7	09.10.00	Pulmonary arterial abnormality,
Right pulmonary artery hypoperfusion due to preferential flow to left pulmonary artery,	to 1	09.10.48	747.3	Q25.7	09.10.00	Pulmonary arterial abnormality,
Left pulmonary artery hypoperfusion due to preferential flow to right pulmonary artery,	to 1	09.10.49	747.3	Q25.7	09.10.00	Pulmonary arterial abnormality,
352 Pulmonary arterial stenosis						
Pulmonary arterial stenosis,	to 960	09.10.01	747.3	Q25.6	09.10.01	Pulmonary arterial stenosis,
Pulmonary arterial stenosis: congenital,	to 960	09.10.27	747.3	Q25.6	09.10.01	Pulmonary arterial stenosis,
Right pulmonary arterial stenosis,	to 353	09.10.25	747.3	Q25.6	09.10.25	Right pulmonary arterial stenosis,
Right pulmonary arterial stenosis: congenital,	to 353	09.10.28	747.3	Q25.6	09.10.25	Right pulmonary arterial stenosis,
Right pulmonary arterial stenosis: single,	to 353	09.10.02	747.3	Q25.6	09.10.25	Right pulmonary arterial stenosis,
Right pulmonary arterial stenosis: multiple,	to 353	09.10.03	747.3	Q25.6	09.10.25	Right pulmonary arterial stenosis,
Right pulmonary arterial stenosis: diffuse,	to 353	09.10.16	747.3	Q25.6	09.10.25	Right pulmonary arterial stenosis,
Left pulmonary arterial stenosis,	to 353	09.10.26	747.3	Q25.6	09.10.26	Left pulmonary arterial stenosis,
Left pulmonary arterial stenosis: congenital,	to 353	09.10.29	747.3	Q25.6	09.10.26	Left pulmonary arterial stenosis,
Left pulmonary arterial stenosis: single,	to 353	09.10.04	747.3	Q25.6	09.10.26	Left pulmonary arterial stenosis,
Left pulmonary arterial stenosis: multiple,	to 353	09.10.05	747.3	Q25.6	09.10.26	Left pulmonary arterial stenosis,
Left pulmonary arterial stenosis: diffuse,	to 353	09.10.17	747.3	Q25.6	09.10.26	Left pulmonary arterial stenosis,
Central pulmonary arterial stenosis or hypoplasia: proximal to hilar bifurcation,	to 353	09.10.07	747.3	Q25.6	09.10.07	Central pulmonary arterial stenosis or hypoplasia: proximal to hilar bifurcation,
Peripheral pulmonary arterial stenoses or hypoplasia: at-beyond hilar bifurcation.,	to 353	09.10.06	747.3	Q25.6	09.10.06	Peripheral pulmonary arterial stenoses or hypoplasia: at-beyond hilar bifurcation.,
Pulmonary arterial coarctation (ductal insertion),	to 960	09.10.08	747.3	Q25.6	09.10.01	Pulmonary arterial stenosis,
Right pulmonary arterial coarctation (ductal insertion),	to 960	09.10.18	747.3	Q25.6	09.10.25	Right pulmonary arterial stenosis,
Left pulmonary arterial coarctation (ductal insertion),	to 960	09.10.19	747.3	Q25.6	09.10.26	Left pulmonary arterial stenosis,
Pulmonary arterial stenosis related abnormality,	to 353	09.10.09	746.8	Q24.8	01.01.39	Cardiac abnormality,
353 @ Specific lung artery involved in abnormality - qualifiers						
- entire pulmonary tree,	to 960	Q1.10.45			not relevant	
- pulmonary trunk,	to 960	Q1.10.46			not relevant	
- pulmonary arterial bifurcation,	to 960	Q5.87.84			not relevant	
- right + left pulmonary arteries,	to 960	Q1.10.47			not relevant	
- right + left pulmonary arteries including bifurcation (carina),	to 960	Q1.10.65			not relevant	
- right + left pulmonary arteries: proximal to hilar bifurcation (central),	to 960	Q1.10.63			not relevant	

- right + left pulmonary arteries: proximal to hilar bifurcation + carina,	to 960	Q5.87.86				not relevant
- right + left pulmonary arteries: at or beyond hilar bifurcation (distal),	to 960	Q5.87.91				not relevant
- peripheral pulmonary arteries,	to 960	Q1.10.64				not relevant
- right pulmonary artery,	to 960	Q1.10.51				not relevant
- right pulmonary artery: proximal to hilar bifurcation (central),	to 960	Q1.10.61				not relevant
- distal right pulmonary artery: at or beyond hilar bifurcation,	to 960	Q1.10.69				not relevant
- right pulmonary artery: segmental (sublobar) branch,	to 960	Q5.87.74				not relevant
- right upper lobe artery,	to 960	Q1.10.52				not relevant
- right middle lobe artery,	to 960	Q1.10.53				not relevant
- right lower lobe artery,	to 960	Q1.10.54				not relevant
- left pulmonary artery,	to 960	Q1.10.55				not relevant
- left pulmonary artery: proximal to hilar bifurcation (central),	to 960	Q1.10.62				not relevant
- distal left pulmonary artery: at or beyond hilar bifurcation,	to 960	Q1.10.70				not relevant
- left pulmonary artery: segmental (sublobar) branch,	to 960	Q5.87.77				not relevant
- left upper lobe artery,	to 960	Q1.10.56				not relevant
- lingular lobe artery,	to 960	Q1.10.57				not relevant
- left lower lobe artery,	to 960	Q1.10.58				not relevant
- pulmonary arterial branch,	to 960	Q1.10.66				not relevant
- proximal to hilar bifurcation (central),	to 960	Q1.10.67				not relevant
- at or beyond hilar bifurcation (distal),	to 960	Q1.10.68				not relevant
- distal to lobar bifurcation,	to 960	Q5.87.88				not relevant
- proximal pulmonary artery to hilar bifurcation (including carina),	to 960	Q5.87.87				not relevant
- lung artery (DESCRIBE),	to 960	Q1.10.59				not relevant
no entry	to 960	not relevant				
355 Pulmonary arterial hypoplasia						
Pulmonary arterial hypoplasia,	to 960	09.10.11	747.3	Q25.7	09.10.11	Pulmonary arterial hypoplasia,
Right pulmonary artery hypoplasia,	to 353	09.10.12	747.3	Q25.7	09.10.25	Right pulmonary arterial stenosis,
Left pulmonary artery hypoplasia,	to 353	09.10.13	747.3	Q25.7	09.10.26	Left pulmonary arterial stenosis,
Right + left pulmonary arterial hypoplasia,	to 353	09.10.14	747.3	Q25.7	09.10.11	Pulmonary arterial hypoplasia,
356 Pulmonary artery absent						
Pulmonary artery absent,	to 1	09.10.21	747.3	Q25.7	09.10.00	Pulmonary arterial abnormality,
Right pulmonary artery absent,	to 1	09.10.22	747.3	Q25.7	09.10.00	Pulmonary arterial abnormality,
Left pulmonary artery absent,	to 1	09.10.23	747.3	Q25.7	09.10.00	Pulmonary arterial abnormality,
Right + left pulmonary arteries absent,	to 1	09.10.24	747.3	Q25.7	09.10.00	Pulmonary arterial abnormality,
357 Pulmonary arterial dilation						
Pulmonary arterial dilation,	to 960	09.10.31	747.3	Q25.7	09.10.00	Pulmonary arterial abnormality,
Right pulmonary artery dilation,	to 353	09.10.32	747.3	Q25.7	09.10.00	Pulmonary arterial abnormality,
Left pulmonary artery dilation,	to 353	09.10.33	747.3	Q25.7	09.10.00	Pulmonary arterial abnormality,
Right + left pulmonary arterial dilation,	to 353	09.10.34	747.3	Q25.7	09.10.00	Pulmonary arterial abnormality,
Pulmonary arterial dilation related abnormally,	to 1	09.10.35	746.8	Q24.8	01.01.39	Cardiac abnormality,
360 Anomalous origin of pulmonary artery (not common arterial trunk)						
Anomalous origin of pulmonary artery,	to 1	09.09.01	747.3	Q25.7	09.10.00	Pulmonary arterial abnormality,
Pulmonary artery from ascending aorta (hemitruncus),	to 1	09.09.08	747.3	Q25.7	09.09.08	Pulmonary artery from ascending aorta (hemitruncus),
Pulmonary artery from patent arterial duct,	to 1	09.09.11	747.3	Q25.7	09.10.00	Pulmonary arterial abnormality,
Right pulmonary artery from patent arterial duct,	to 1	09.09.02	747.3	Q25.7	09.10.10	Discontinuous (non-confluent) pulmonary arteries,
Right pulmonary artery from ascending aorta (right 'hemitruncus'),	to 1	09.09.03	747.3	Q25.7	09.09.08	Pulmonary artery from ascending aorta (hemitruncus),
Left pulmonary artery from patent arterial duct,	to 1	09.09.04	747.3	Q25.7	09.10.10	Discontinuous (non-confluent) pulmonary arteries,
Left pulmonary artery from ascending aorta (left 'hemitruncus'),	to 1	09.09.05	747.3	Q25.7	09.09.08	Pulmonary artery from ascending aorta (hemitruncus),
Pulmonary arterial sling,	to 405	09.09.06	747.3	Q25.7	09.09.06	Pulmonary arterial sling,
Pulmonary artery without evident proximal arterial connection (isolated),	to 1	09.09.12	747.3	Q25.7	09.10.10	Discontinuous (non-confluent) pulmonary arteries,
Right pulmonary artery without evident proximal arterial connection (isolated),	to 1	09.09.09	747.3	Q25.7	09.10.10	Discontinuous (non-confluent) pulmonary arteries,
Left pulmonary artery without evident proximal arterial connection (isolated),	to 1	09.09.10	747.3	Q25.7	09.10.10	Discontinuous (non-confluent) pulmonary arteries,
Anomalous origin of pulmonary artery related abnormality,	to 1	09.09.07	746.8	Q24.8	01.01.39	Cardiac abnormality,
_____ End of branch _____						
370 Aortic valvar, aortic, aortic arch & branches abnormalities						
Aortic valvar abnormalities	to 375	not relevant				
Ascending aorta abnormalities	to 380	not relevant				
Aorto-ventricular tunnels: congenital and acquired	to 383	not relevant				
Aortic arch & distal aorta abnormalities	to 390	not relevant				
Abnormalities of aortic arch branches	to 440	not relevant				
Aortic aneurysm: congenital,	to 976	07.09.30	747.2	Q25.4	10.14.50	Aortic aneurysm,
Aortic abnormality,	to 699	07.09.31	747.2	Q25.4	07.09.31	Aortic abnormality,
Aortic abnormality: congenital,	to 699	07.09.33	747.2	Q25.4	07.09.31	Aortic abnormality,
Aortic outflow obstruction,	to 1	07.09.32	747.2	Q25.4	07.09.31	Aortic abnormality,
Subaortic stenosis,	to 281	07.09.00	746.8	Q24.4	07.09.00	Subaortic stenosis,
Subaortic stenosis due to fibromuscular shell,	to 281	07.09.03	746.8	Q24.4	07.09.03	Subaortic stenosis due to fibromuscular shell,
Subaortic stenosis due to fibromuscular tunnel,	to 281	07.09.16	746.8	Q24.4	07.09.00	Subaortic stenosis,
Subaortic stenosis due to common atrioventricular valve,	to 281	07.09.17	746.8	Q24.4	07.09.00	Subaortic stenosis,
375 Aortic valvar abnormalities						
Aortic valvar abnormality,	to 1	09.15.00	746.9	Q23.9	09.15.00	Aortic valvar abnormality,
Aortic valvar abnormality: congenital,	to 1	09.15.19	746.9	Q23.9	09.15.00	Aortic valvar abnormality,
Aortic valvar stenosis: congenital,	to 960	09.15.01	746.3	Q23.0	09.15.01	Aortic valvar stenosis: congenital,
Aortic cusp(s) hypoplasia,	to 385	09.15.02	746.3	Q23.1	09.15.00	Aortic valvar abnormality,
Aortic valvar 'annulus' hypoplasia,	to 955	09.15.17	746.3	Q23.1	09.15.01	Aortic valvar stenosis: congenital,
Aortic valvar 'annulus' dilation,	to 1	09.15.27	746.9	Q23.8	09.15.00	Aortic valvar abnormality,
Aortic valve commissural abnormality,	to 385	09.15.41	746.3	Q23.0	09.15.00	Aortic valvar abnormality,
Aortic valve commissures fused (dome shaped),	to 385	09.15.18	746.3	Q23.0	09.15.01	Aortic valvar stenosis: congenital,
Aortic valve commissures partially fused,	to 385	09.15.38	746.3	Q23.0	09.15.01	Aortic valvar stenosis: congenital,
Aortic valve commissures completely fused,	to 385	09.15.39	746.3	Q23.0	09.15.01	Aortic valvar stenosis: congenital,
Normal separation of aortic valve commissures,	to 385	09.15.40	746.3	Q23.0	09.15.00	Aortic valvar abnormality,
Aortic valve overriding ventricular septum,	to 973	09.15.47	746.9	Q23.9	09.15.00	Aortic valvar abnormality,
Eccentric opening of tricuspid aortic valve,	to 1	09.15.12	746.9	Q23.8	09.15.12	Eccentric opening of tricuspid aortic valve,
Aortic regurgitation: congenital,	to 963	09.15.07	746.4	Q23.1	09.15.07	Aortic regurgitation: congenital,
Aortic atresia	to 377	not relevant				
Aortic valve cusps: number and pathology	to 378	not relevant				
Aortic valvar prolapse	to 379	not relevant				
377 Aortic atresia						
Aortic atresia,	to 1	09.15.03	746.7	Q23.0	09.15.03	Aortic atresia,
Aortic valvar atresia - imperforate valve,	to 1	09.15.04	746.7	Q23.0	09.15.03	Aortic atresia,
Aortic atresia: acquired,	to 1	09.15.14	746.7	Q23.0	09.15.03	Aortic atresia,
Muscular (subvalvar) aortic atresia,	to 1	09.15.05	746.7	Q23.4	09.15.03	Aortic atresia,
Hypoplastic left heart syndrome,	to 1	01.01.09	746.7	Q23.4	01.01.09	Hypoplastic left heart syndrome,
Aortic valvar atresia,	to 1	09.15.06	746.7	Q23.0	09.15.03	Aortic atresia,
Aortic valvar atresia related abnormality,	to 1	09.15.48	746.8	Q24.8	01.01.39	Cardiac abnormality,
378 Aortic valve cusps: number and pathology						
Tricuspid aortic valve,	to 1	09.15.23				not relevant
Tricuspid but functionally bicuspid aortic valve,	to 1	09.15.46	746.4	Q23.1	09.15.22	Bicuspid aortic valve,
Unicuspid aortic valve,	to 1	09.15.21	746.3	Q23.0	09.15.00	Aortic valvar abnormality,
Unicuspid aortic valve: unicommissural,	to 1	09.15.28	746.3	Q23.0	09.15.00	Aortic valvar abnormality,
Unicuspid aortic valve: aocommissural,	to 1	09.15.29	746.3	Q23.0	09.15.00	Aortic valvar abnormality,
Bicuspid aortic valve,	to 1	09.15.22	746.4	Q23.1	09.15.22	Bicuspid aortic valve,
Bicuspid aortic valve: anterior-posterior orientation,	to 1	09.15.35	746.4	Q23.1	09.15.22	Bicuspid aortic valve,
Bicuspid aortic valve: right-left orientation,	to 1	09.15.36	746.4	Q23.1	09.15.22	Bicuspid aortic valve,
Quadricuspid aortic valve,	to 1	09.15.24	746.9	Q23.8	09.15.00	Aortic valvar abnormality,
Aortic valve with more than 4 cusps,	to 1	09.15.37	746.9	Q23.8	09.15.00	Aortic valvar abnormality,
Aortic valve cusps: dysplastic (mucoid thickening),	to 385	09.15.09	746.9	Q23.8	09.15.00	Aortic valvar prolapse,
Aortic valve cusp(s) absent,	to 385	09.15.10	746.4	Q23.8	09.15.07	Aortic regurgitation: congenital,
Accessory tissue on aortic valve cusp,	to 385	09.15.11	746.9	Q23.8	09.15.00	Aortic valvar abnormality,
Aortic valve cusp fenestration,	to 385	09.15.20	746.9	Q23.8	09.15.00	Aortic valvar abnormality,
Aortic valve cusp deficiency: congenital,	to 385	09.15.26	746.9	Q23.8	09.15.00	Aortic valvar abnormality,
Aortic valve cusp abnormality,	to 388	09.15.45	746.3	Q23.0	09.15.00	Aortic valvar abnormality,
Aortic valve cusp abnormality: congenital,	to 388	09.15.25	746.3	Q23.0	09.15.00	Aortic valvar abnormality,
379 Aortic valvar prolapse						
Aortic valvar prolapse,	to 1	09.15.30	746.9	Q23.8	09.15.30	Aortic valvar prolapse,
Aortic valvar prolapse: congenital,	to 1	09.15.50	746.9	Q23.8	09.15.30	Aortic valvar prolapse,
Prolapse of right coronary aortic cusp,	to 1	09.15.31	746.9	Q23.8	09.15.30	Aortic valvar prolapse,
Prolapse of left coronary aortic cusp,	to 1	09.15.32	746.9	Q23.8	09.15.30	Aortic valvar prolapse,
Prolapse of non-coronary aortic cusp,	to 1	09.15.33	746.9	Q23.8	09.15.30	Aortic valvar prolapse,
Aortic valvar prolapse related abnormality,	to 1	09.15.34	746.9	Q23.8	01.01.39	Cardiac abnormality,

Ascending aorta abnormalities

Ascending aorta abnormality,	to 1	09.16.10	747.2	Q25.3	09.16.10	Ascending aorta abnormality,	
Ascending aorta abnormality: congenital,	to 1	09.16.06	747.2	Q25.3	09.16.10	Ascending aorta abnormality,	
Aortic root abnormality,	to 1	09.16.15	747.2	Q25.3	09.16.10	Ascending aorta abnormality,	
Aortic root abnormality: congenital,	to 1	09.16.17	747.2	Q25.3	09.16.10	Ascending aorta abnormality,	
Supravalvar aortic stenosis,	to 386	09.16.00	747.2	Q25.3	09.16.00	Supravalvar aortic stenosis,	
Supravalvar aortic stenosis: congenital,	to 386	09.16.18	747.2	Q25.3	09.16.00	Supravalvar aortic stenosis,	
Supravalvar aortic stenosis: discrete,	to 386	09.16.12	747.2	Q25.3	09.16.00	Supravalvar aortic stenosis,	
Supravalvar localised sinubulbar aortic stenosis (hour-glass),	to 386	09.16.01	747.2	Q25.3	09.16.00	Supravalvar aortic stenosis,	
Supravalvar diffuse aortic stenosis,	to 386	09.16.08	747.2	Q25.3	09.16.00	Supravalvar aortic stenosis,	
Supravalvar shell-like aortic stenosis,	to 386	09.16.11	747.2	Q25.3	09.16.00	Supravalvar aortic stenosis,	
Ascending aorta hypoplasia,	to 386	09.16.02	747.2	Q25.4	09.16.02	Ascending aorta hypoplasia,	
Ascending aorta atresia,	to 1	09.16.03	747.2	Q25.2	09.16.10	Ascending aorta abnormality,	
Ascending aorta absent,	to 1	09.16.04	747.2	Q25.4	09.16.10	Ascending aorta abnormality,	
Congenital ascending aorta dilation or aneurysm,	to 1	09.16.19	747.2	Q25.4	09.16.10	Ascending aorta abnormality,	
Ascending aorta dilation,	to 976	09.16.09	747.2	Q25.4	09.16.09	Ascending aorta dilation,	
Ascending aorta obstruction,	to 960	09.16.16	747.2	Q25.4	09.16.09	Ascending aorta dilation,	
Aortic root dilation,	to 976	09.16.13	747.2	Q25.4	09.16.13	Aortic root dilation,	
Aortic sinubulbar junction dilation,	to 976	09.16.14	747.2	Q25.4	09.16.13	Aortic root dilation,	
Ascending aorta dilation associated with Marfan syndrome,	to 976	09.16.05	441.6	759.8	Q87.4†	09.16.05	Ascending aorta dilation associated with Marfan syndrome,
Congenital aneurysm of ascending aorta (annulo-aortic ectasia),	to 976	09.16.07	747.2	Q25.4	10.14.50	Aortic aneurysm,	
Aortic sinus of Valsalva aneurysms and abnormalities	to 381	not relevant					
Aorto-ventricular tunnels	to 383	not relevant					

Aortic sinus of Valsalva aneurysms and abnormalities

Aortic sinus of Valsalva abnormality,	to 1	09.18.00	747.2	Q25.4	09.16.10	Ascending aorta abnormality,
Aortic sinus of Valsalva aneurysm,	to 976	09.18.01	747.2	Q25.4	09.18.01	Aortic sinus of Valsalva aneurysm,
Aortic sinus of Valsalva aneurysm from right coronary sinus,	to 976	09.18.11	747.2	Q25.4	09.18.01	Aortic sinus of Valsalva aneurysm,
Aortic sinus of Valsalva aneurysm from left coronary sinus,	to 976	09.18.12	747.2	Q25.4	09.18.01	Aortic sinus of Valsalva aneurysm,
Aortic sinus of Valsalva aneurysm from non-coronary sinus,	to 976	09.18.13	747.2	Q25.4	09.18.01	Aortic sinus of Valsalva aneurysm,
Aortic sinus of Valsalva aneurysm without rupture,	to 1	09.18.02	747.2	Q25.4	09.18.01	Aortic sinus of Valsalva aneurysm,
Aortic sinus of Valsalva aneurysm with protrusion into right atrium,	to 1	09.18.14	747.2	Q25.4	09.18.01	Aortic sinus of Valsalva aneurysm,
Aortic sinus of Valsalva aneurysm with protrusion into right ventricle,	to 1	09.18.15	747.2	Q25.4	09.18.01	Aortic sinus of Valsalva aneurysm,
Aortic sinus of Valsalva aneurysm with protrusion into left atrium,	to 1	09.18.16	747.2	Q25.4	09.18.01	Aortic sinus of Valsalva aneurysm,
Aortic sinus of Valsalva aneurysm with protrusion into left ventricle,	to 1	09.18.17	747.2	Q25.4	09.18.01	Aortic sinus of Valsalva aneurysm,
Aortic sinus of Valsalva aneurysm with protrusion into pericardial cavity,	to 1	09.18.18	747.2	Q25.4	09.18.01	Aortic sinus of Valsalva aneurysm,
Aortic sinus of Valsalva aneurysm with protrusion into pulmonary artery,	to 1	09.18.21	747.2	Q25.4	09.18.01	Aortic sinus of Valsalva aneurysm,
Aortic sinus of Valsalva aneurysm with rupture,	to 1	09.18.03	747.2	Q25.4	09.18.01	Aortic sinus of Valsalva aneurysm,
Aortic sinus of Valsalva aneurysm with rupture to right atrium,	to 1	09.18.04	747.2	Q25.4	09.18.01	Aortic sinus of Valsalva aneurysm,
Aortic sinus of Valsalva aneurysm with rupture to right ventricle,	to 1	09.18.05	747.2	Q25.4	09.18.01	Aortic sinus of Valsalva aneurysm,
Aortic sinus of Valsalva aneurysm with rupture to left atrium,	to 1	09.18.06	747.2	Q25.4	09.18.01	Aortic sinus of Valsalva aneurysm,
Aortic sinus of Valsalva aneurysm with rupture to left ventricle,	to 1	09.18.08	747.2	Q25.4	09.18.01	Aortic sinus of Valsalva aneurysm,
Aortic sinus of Valsalva aneurysm with rupture to pulmonary artery,	to 1	09.18.09	747.2	Q25.4	09.18.01	Aortic sinus of Valsalva aneurysm,
Aortic sinus of Valsalva aneurysm with rupture to pericardial cavity,	to 1	09.18.10	747.2	Q25.4	09.18.01	Aortic sinus of Valsalva aneurysm,
Aortic sinus of Valsalva dilation,	to 387	09.18.20	747.2	Q25.4	09.16.13	Aortic root dilation,
Aortic sinus of Valsalva perforation,	to 387	09.18.22	747.2	Q25.4	09.16.10	Ascending aorta abnormality,
Aortic sinus of Valsalva related abnormality,	to 1	09.18.07	746.8	Q24.8	01.01.39	Cardiac abnormality,

Aorto-ventricular tunnels: congenital and acquired

Aorto-ventricular tunnel,	to 387	09.17.01	747.2	Q25.4	09.17.01	Aorto-ventricular tunnel,		
Aorto - left ventricular tunnel,	to 387	09.17.02	747.2	Q25.4	09.17.02	Aorto - left ventricular tunnel,		
Aorto - left ventricular tunnel: simple (Type I),	to 387	09.17.07	747.2	Q25.4	09.17.02	Aorto - left ventricular tunnel,		
Aorto - left ventricular tunnel with extracardiac aortic wall aneurysm (Type II),	to 387	09.17.08	747.2	Q25.4	09.17.02	Aorto - left ventricular tunnel,		
Aorto - left ventricular tunnel with intracardiac aneurysm of septal portion (Type III),	to 387	09.17.09	747.2	Q25.4	09.17.02	Aorto - left ventricular tunnel,		
Aorto - left ventricular tunnel with intracardiac septal wall & extracardiac aortic wall aneurysms (Type IV),	to 387	09.17.12	747.2	Q25.4	09.17.02	Aorto - left ventricular tunnel,		
Aorto - left ventricular tunnel with secondary right ventricular outflow tract obstruction,	to 387	09.17.10	747.2	Q25.4	09.17.02	Aorto - left ventricular tunnel,		
Aorto - left ventricular tunnel with right coronary artery from tunnel,	to 387	09.17.11	747.2	Q25.4	09.17.02	Aorto - left ventricular tunnel,		
Aorto - right ventricular tunnel,	to 387	09.17.04	747.2	Q25.4	09.17.01	Aorto-ventricular tunnel,		
Aorto-ventricular tunnel, acquired,	to 387	10.25.14	447.8	†7.8	09.17.01	Aorto-ventricular tunnel,		
Aorto-left ventricular tunnel: acquired,	to 387	10.25.15	447.8	†7.8	09.17.02	Aorto - left ventricular tunnel,		
Aorto-right ventricular tunnel: acquired,	to 387	10.25.16	447.8	†7.8	09.17.01	Aorto-ventricular tunnel,		
Recurrent aorto-left ventricular tunnel,	to 387	15.36.16	747.2	E878.8	Q25.4	†Y83.8	09.17.02	Aorto - left ventricular tunnel,
Residual aorto-left ventricular tunnel,	to 387	15.36.17	747.2	E878.8	Q25.4	†Y83.8	09.17.02	Aorto - left ventricular tunnel,
Aorto-ventricular tunnel related abnormality,	to 1	09.17.06	746.8	Q24.8	01.01.39	Cardiac abnormality,		

385 @ Ventriculo-arterial valve cusp or commissure involved in abnormality or procedure - qualifiers

- right coronary cusp,	to 1	Q1.15.01			not relevant
- left coronary cusp,	to 1	Q1.15.02			not relevant
- non-coronary cusp,	to 1	Q1.15.03			not relevant
- right cusp,	to 1	Q1.15.04			not relevant
- left cusp,	to 1	Q1.15.05			not relevant
- anterior cusp,	to 1	Q1.15.06			not relevant
- posterior cusp,	to 1	Q1.15.07			not relevant
- facing cusp,	to 1	Q1.15.20			not relevant
- right facing cusp,	to 1	Q1.15.10			not relevant
- left facing cusp,	to 1	Q1.15.14			not relevant
- non-facing cusp,	to 1	Q1.15.08			not relevant
- anterior facing cusp,	to 1	Q1.15.21			not relevant
- posterior facing cusp,	to 1	Q1.15.22			not relevant
- one cusp,	to 1	Q1.15.16			not relevant
- two cusps,	to 1	Q1.15.15			not relevant
- all cusps,	to 1	Q1.15.09			not relevant
- intercoronary commissure,	to 1	Q1.15.11			not relevant
- right & non-coronary commissure,	to 1	Q1.15.12			not relevant
- left & non-coronary commissure,	to 1	Q1.15.13			not relevant
- all commissures,	to 1	Q1.15.19			not relevant
- cusp involved unknown or unspecified,	to 1	Q1.15.23			not relevant
- commissure involved unknown or unspecified,	to 1	Q1.15.24			not relevant
- characteristics unknown or unspecified,	to 1	Q1.90.83			not relevant
Materials for valve cusp procedures	to 1608	not relevant			
no entry	to 1	not relevant			

386 @ Supravalvar aortic stenosis qualifiers

- involving right coronary ostium,	to 960	Q1.15.31			not relevant
- involving left coronary ostium,	to 960	Q1.15.32			not relevant
- involving both coronary ostia,	to 960	Q1.15.33			not relevant
- involving right coronary cusp,	to 960	Q1.15.34			not relevant
- involving left coronary cusp,	to 960	Q1.15.35			not relevant
- involving non-coronary cusp,	to 960	Q1.15.36			not relevant
- involving all coronary cusps,	to 960	Q1.15.37			not relevant
- confined to ascending aorta,	to 960	Q1.15.38			not relevant
- extending to aortic arch,	to 960	Q1.15.39			not relevant
- extending to aortic arch and brachiocephalic arteries,	to 960	Q1.15.40			not relevant
- extending to aortic arch but not brachiocephalic arteries,	to 960	Q1.15.41			not relevant
- characteristics unknown or unspecified,	to 960	Q1.90.83			not relevant
no entry	to 1	not relevant			

387 @ Ventriculo-arterial sinus characteristics & involvement - qualifiers

- right coronary sinus,	to 1	Q1.15.71			not relevant
- left coronary sinus,	to 1	Q1.15.72			not relevant
- noncoronary sinus,	to 1	Q1.15.73			not relevant
- all sinuses,	to 1	Q1.15.83			not relevant
- between right & left coronary sinuses,	to 1	Q1.15.74			not relevant
- between non & right coronary sinuses,	to 1	Q1.15.75			not relevant
- between non & left coronary sinuses,	to 1	Q1.15.76			not relevant
- above right coronary sinus,	to 1	Q1.15.77			not relevant
- above left coronary sinus,	to 1	Q1.15.78			not relevant
- above noncoronary sinus,	to 1	Q1.15.79			not relevant
- above junction of right & left coronary sinuses,	to 1	Q1.15.80			not relevant
- above junction of non & right coronary sinuses,	to 1	Q1.15.81			not relevant
- above junction of non & left coronary sinuses,	to 1	Q1.15.82			not relevant
- aortic orifice of aorto-ventricular tunnel above sinubulbar junction,	to 1	Q1.15.84			not relevant
- aorto-ventricular tunnel with right coronary artery from tunnel	to 1	Q1.15.85			not relevant
- aorto-ventricular tunnel with right coronary artery from above tunnel	to 1	Q1.15.86			not relevant
- aorto-ventricular tunnel with right coronary artery from below tunnel	to 1	Q1.15.87			not relevant
- characteristics unknown or unspecified,	to 1	Q1.90.83			not relevant
no entry	to 1	not relevant			

388 @ Semilunar valvar cusp abnormalities - qualifiers

- thickened,	to 385	Q1.15.50				not relevant
- gelatinous,	to 385	Q1.15.51				not relevant
- noncoapting,	to 385	Q1.15.52				not relevant
- associated mass,	to 980	Q1.15.53				not relevant
- absent,	to 385	Q1.15.54				not relevant
- flail,	to 385	Q1.15.55				not relevant
- detached,	to 385	Q1.15.56				not relevant
- characteristics unknown or unspecified,	to 1	Q1.90.83				not relevant
no entry	to 385	not relevant				

End of branch

390 Aortic arch & distal aorta abnormalities

Aortic arch abnormality,	to 1	09.28.00	747.2	Q25.4	09.28.00	Aortic arch abnormality,
Aortic arch abnormality: congenital,	to 1	09.28.10	747.2	Q25.4	09.28.00	Aortic arch abnormality,
Aortic arch obstruction,	to 960	09.28.20	747.2	Q25.4	09.28.00	Aortic arch abnormality,
Course of aortic arch and descending aorta	to 395	not relevant				
Aortic coarctation	to 410	not relevant				
Aortic hypoplasia (tubular)	to 425	not relevant				
Aortic arch atresia	to 426	not relevant				
Interrupted aortic arch	to 427	not relevant				
Vascular rings	to 396	not relevant				
Cervical aortic arch,	to 1	09.28.06	747.2	Q25.4	09.28.00	Aortic arch abnormality,
Cervical aortic arch - right,	to 1	09.28.17	747.2	Q25.4	09.28.00	Aortic arch abnormality,
Cervical aortic arch - left,	to 1	09.28.18	747.2	Q25.4	09.28.00	Aortic arch abnormality,
Persisting fifth aortic arch,	to 1	09.28.08	747.2	Q25.4	09.28.00	Aortic arch abnormality,
Persisting fifth aortic arch: double barrelled arch,	to 1	09.28.41	747.2	Q25.4	09.28.00	Aortic arch abnormality,
Persisting fifth aortic arch: with atretic fourth arch,	to 1	09.28.42	747.2	Q25.4	09.28.00	Aortic arch abnormality,
Descending aorta abnormality,	to 1	09.28.43	747.2	Q25.4	07.09.31	Aortic abnormality,
Thoracoabdominal aorta abnormality,	to 1	09.28.44	747.2	Q25.4	07.09.31	Aortic abnormality,
Abdominal aorta abnormality,	to 1	09.28.45	747.2	Q25.4	07.09.31	Aortic abnormality,
Descending aorta dilation,	to 976	09.28.16	747.2	Q25.4	09.28.16	Descending aorta dilation,

395 Course of aortic arch and descending aorta

Left arch & left descending aorta (normal),	to 1	09.28.01				not relevant
Left aortic arch,	to 1	09.28.22				not relevant
Left arch & right descending aorta,	to 1	09.28.02	747.2	Q25.4	09.28.00	Aortic arch abnormality,
Right aortic arch,	to 1	09.28.15	747.2	Q25.4	09.28.15	Right aortic arch,
Right arch & right descending aorta,	to 1	09.28.03	747.2	Q25.4	09.28.15	Right aortic arch,
Right arch & left descending aorta,	to 1	09.28.04	747.2	Q25.4	09.28.15	Right aortic arch,
Aortic arch centrally descending,	to 1	09.28.05	747.2	Q25.4	09.28.00	Aortic arch abnormality,
Abnormal course of aortic arch,	to 1	09.28.23	747.2	Q25.4	09.28.00	Aortic arch abnormality,
Abnormal course of aortic arch and descending aorta,	to 1	09.28.19	747.2	Q25.4	09.28.00	Aortic arch abnormality,

396 Vascular rings

Vascular ring,	to 405	09.31.00	747.2	Q25.4	09.31.00	Vascular ring,
Double aortic arch	to 397	not relevant				
Vascular ring with right aortic arch,	to 405	09.31.11	747.2	Q25.4	09.31.00	Vascular ring,
Vascular ring with right aortic arch and left arterial duct	to 402	not relevant				
Vascular ring: right aortic arch & right arterial ligament with absent left pulmonary artery,	to 405	09.31.26	747.2	Q25.4	09.31.00	Vascular ring,
Vascular ring: right aortic arch & right patent arterial duct with absent left pulmonary artery,	to 405	09.31.27	747.2	Q25.4	09.31.00	Vascular ring,
Vascular ring with left aortic arch,	to 405	09.31.01	747.2	Q25.4	09.31.00	Vascular ring,
Vascular ring with left aortic arch and right arterial duct	to 400	not relevant				
Vascular ring due to aberrant subclavian artery & bilateral arterial ducts,	to 405	09.31.21	747.2	Q25.4	09.31.00	Vascular ring,
Pulmonary arterial sling,	to 405	09.09.06	747.3	Q25.7	09.09.06	Pulmonary arterial sling,
Distal origin of innominate artery with tracheal compression,	to 405	09.30.23	747.2	Q25.4	09.31.00	Vascular ring,
Vascular ring: malrotation + dextroversion of heart with right lung hypoplasia & left arterial duct,	to 405	09.30.30	747.2	Q25.4	09.31.00	Vascular ring,
Vascular ring: retrotracheal right pulmonary artery from ascending aorta ('hemitruncal sling'),	to 405	09.30.29	747.2	Q25.4	09.31.00	Vascular ring,
Vascular ring related abnormality,	to 1	09.31.22	759.8	Q89.8	14.03.29	Thoracic-mediastinal abnormality,

397 Double aortic arch

Double aortic arch,	to 405	09.28.09	747.2	Q25.4	09.28.09	Double aortic arch,
Double aortic arch with balanced arches,	to 405	09.28.31	747.2	Q25.4	09.28.09	Double aortic arch,
Double aortic arch with both patent,	to 405	09.28.11	747.2	Q25.4	09.28.09	Double aortic arch,
Double aortic arch with left arch dominant,	to 405	09.28.38	747.2	Q25.4	09.28.09	Double aortic arch,
Double aortic arch with left arch dominant: right arch hypoplasia-atresia,	to 405	09.28.12	747.2	Q25.4	09.28.09	Double aortic arch,
Double aortic arch with left arch dominant: right arch patent,	to 405	09.28.32	747.2	Q25.4	09.28.09	Double aortic arch,
Double aortic arch with left arch dominant: right arch coarctation,	to 405	09.28.33	747.2	Q25.4	09.28.09	Double aortic arch,
Double aortic arch with left arch dominant: right arch atretic,	to 405	09.28.34	747.2	Q25.4	09.28.09	Double aortic arch,
Double aortic arch with right arch dominant,	to 405	09.28.39	747.2	Q25.4	09.28.09	Double aortic arch,
Double aortic arch with right arch dominant: left arch hypoplasia-atresia,	to 405	09.28.13	747.2	Q25.4	09.28.09	Double aortic arch,
Double aortic arch with right arch dominant: left arch patent,	to 405	09.28.35	747.2	Q25.4	09.28.09	Double aortic arch,
Double aortic arch with right arch dominant: left arch coarctation,	to 405	09.28.36	747.2	Q25.4	09.28.09	Double aortic arch,
Double aortic arch with right arch dominant: left arch atretic,	to 405	09.28.37	747.2	Q25.4	09.28.09	Double aortic arch,
Double aortic arch with right arch dominant: left arch atretic & left ligament to diverticulum (Kommerell),	to 405	09.28.40	747.2	Q25.4	09.28.09	Double aortic arch,
Double aortic arch related abnormality,	to 1	09.28.14	759.8	Q89.8	14.03.29	Thoracic-mediastinal abnormality,

400 Vascular ring with left aortic arch and right arterial duct

Vascular ring: left aortic arch & right patent arterial duct,	to 405	09.31.24	747.2	Q25.4	09.31.00	Vascular ring,
Vascular ring: left aortic arch & right arterial ligament,	to 405	09.31.25	747.2	Q25.4	09.31.00	Vascular ring,
Vascular ring: left aortic arch & right arterial duct from aberrant retroesophageal right subclavian artery,	to 405	09.31.02	747.2	Q25.4	09.31.00	Vascular ring,
Vascular ring: left aortic arch & right arterial duct from retroesophageal aortic diverticulum + aberrant right subclavian artery,	to 405	09.31.03	747.2	Q25.4	09.31.00	Vascular ring,
Vascular ring: left aortic arch & right arterial duct from aberrant retroesophageal innominate artery,	to 405	09.31.04	747.2	Q25.4	09.31.00	Vascular ring,
Vascular ring: left aortic arch & right arterial duct from retroesophageal aortic diverticulum (Kommerell),	to 405	09.31.05	747.2	Q25.4	09.31.00	Vascular ring,
Vascular ring: left aortic arch & right arterial duct-ligament from retroesophageal aortic diverticulum (Kommerell) with aberrant right subclavian artery,	to 405	09.31.30	747.2	Q25.4	09.31.00	Vascular ring,
Vascular ring: left arch + retroesophageal right descending aorta + right arterial duct from aortic diverticulum + aberrant right subclavian artery,	to 405	09.31.23	747.2	Q25.4	09.31.00	Vascular ring,
Vascular ring: left aortic arch & retrotracheal right patent arterial duct (ductal sling),	to 405	09.31.28	747.2	Q25.4	09.31.00	Vascular ring,
Vascular ring: left aortic arch with right descending aorta & right arterial ligament,	to 405	09.31.31	747.2	Q25.4	09.31.00	Vascular ring,
Vascular ring: left aortic arch with right descending aorta & right patent arterial duct,	to 405	09.31.32	747.2	Q25.4	09.31.00	Vascular ring,
Vascular ring with left aortic arch,	to 405	09.31.10	759.8	Q89.8	14.03.29	Thoracic-mediastinal abnormality,

402 Vascular ring with right aortic arch and left arterial duct

Vascular ring: right aortic arch & left patent arterial duct,	to 405	09.31.07	747.2	Q25.4	09.31.00	Vascular ring,
Vascular ring: right aortic arch & left arterial ligament,	to 405	09.31.08	747.2	Q25.4	09.31.00	Vascular ring,
Vascular ring: right aortic arch with mirror image branching & left arterial ligament,	to 405	09.31.20	747.2	Q25.4	09.31.00	Vascular ring,
Vascular ring: right aortic arch & left arterial ligament with left descending 'circumflex' aorta,	to 405	09.31.19	747.2	Q25.4	09.31.00	Vascular ring,
Vascular ring: right aortic arch & left arterial ligament with left descending 'circumflex' aorta + aberrant retroesophageal left subclavian artery,	to 405	09.31.33	747.2	Q25.4	09.31.00	Vascular ring,
Vascular ring: right aortic arch & left arterial ligament between left subclavian and left carotid arteries,	to 405	09.31.09	747.2	Q25.4	09.31.00	Vascular ring,
Vascular ring: right aortic arch & left arterial duct from aberrant retroesophageal left subclavian artery,	to 405	09.31.12	747.2	Q25.4	09.31.00	Vascular ring,
Vascular ring: right aortic arch & left arterial duct from aberrant retroesophageal left subclavian artery,	to 405	09.31.29	747.2	Q25.4	09.31.00	Vascular ring,
Vascular ring: right aortic arch & left arterial duct from retroesophageal aortic diverticulum + aberrant left subclavian artery,	to 405	09.31.13	747.2	Q25.4	09.31.00	Vascular ring,
Vascular ring: right aortic arch & left arterial duct from aberrant retroesophageal innominate artery,	to 405	09.31.14	747.2	Q25.4	09.31.00	Vascular ring,
Vascular ring: right aortic arch & left duct from retroesophageal aortic diverticulum (Kommerell),	to 405	09.31.15	747.2	Q25.4	09.31.00	Vascular ring,
Vascular ring: right aortic arch & left arterial duct from retroesophageal aortic diverticulum & isolated left subclavian artery,	to 405	09.31.17	747.2	Q25.4	09.31.00	Vascular ring,
Vascular ring with right aortic arch,	to 405	09.31.18	759.8	Q89.8	14.03.29	Thoracic-mediastinal abnormality,

405 @ Vascular ring qualifiers

- with airway obstruction,	to 1	Q1.28.31				not relevant
- without airway obstruction,	to 1	Q1.28.32				not relevant
- with oesophageal obstruction,	to 1	Q1.28.33				not relevant
- without oesophageal obstruction,	to 1	Q1.28.34				not relevant
- causing dysphagia (dysphagia lusoria),	to 1	Q1.38.37				not relevant
- forming complete ring,	to 1	Q1.28.35				not relevant
- forming partial ring,	to 1	Q1.28.36				not relevant
no entry	to 1	not relevant				

410 Aortic coarctation

Aortic coarctation,	to 960	09.29.01	747.1	Q25.1	09.29.01	Aortic coarctation,
Preductal aortic coarctation,	to 960	09.29.02	747.1	Q25.1	09.29.01	Aortic coarctation,
Juxtaductal aortic coarctation (paraductal),	to 960	09.29.03	747.1	Q25.1	09.29.01	Aortic coarctation,
Postductal aortic coarctation,	to 960	09.29.04	747.1	Q25.1	09.29.01	Aortic coarctation,
Aortic coarctation between subclavian & common carotid arteries,	to 960	09.29.27	747.1	Q25.1	09.29.01	Aortic coarctation,
Aortic coarctation between carotid arteries,	to 960	09.29.28	747.1	Q25.1	09.29.01	Aortic coarctation,
Descending thoracic aortic coarctation,	to 960	09.29.05	747.1	Q25.1	09.29.01	Aortic coarctation,
Abdominal aortic coarctation,	to 960	09.29.06	747.1	Q25.1	09.29.01	Aortic coarctation,
Abdominal aortic coarctation: suprarenal,	to 960	09.29.10	747.1	Q25.1	09.29.01	Aortic coarctation,

	Abdominal aortic coarctation: infrarenal,	to 960	09.29.26	747.1	Q25.1	09.29.01	Aortic coarctation,
	Kinking of descending aorta (pseudo-coarctation),	to 1	09.29.08	747.2	Q25.4	09.28.00	Aortic arch abnormality,
	Aortic coarctation related abnormality,	to 1	09.29.09	759.8	Q89.8	14.03.29	Thoracic-mediastinal abnormality,
425	Aortic hypoplasia (tubular)						
	Aortic arch hypoplasia (tubular),	to 960	09.29.11	747.2	Q25.4	09.29.11	Aortic arch hypoplasia (tubular),
	Aortic arch hypoplasia (tubular) distal to subclavian artery (isthmus),	to 960	09.29.12	747.2	Q25.4	09.29.11	Aortic arch hypoplasia (tubular),
	Aortic arch hypoplasia (tubular) between subclavian & common carotid arteries,	to 960	09.29.13	747.2	Q25.4	09.29.11	Aortic arch hypoplasia (tubular),
	Aortic arch hypoplasia (tubular) between carotid arteries,	to 960	09.29.14	747.2	Q25.4	09.29.11	Aortic arch hypoplasia (tubular),
	Thoracoabdominal aortic hypoplasia,	to 960	09.29.19	747.2	Q25.4	09.29.16	Descending-abdominal aorta hypoplasia (middle aortic syndrome),
	Descending-abdominal aorta hypoplasia (middle aortic syndrome),	to 960	09.29.16	747.2	Q25.4	09.29.16	Descending-abdominal aorta hypoplasia (middle aortic syndrome),
	Descending aorta hypoplasia,	to 960	09.29.17	747.2	Q25.4	09.29.16	Descending-abdominal aorta hypoplasia (middle aortic syndrome),
	Abdominal aorta hypoplasia,	to 960	09.29.18	747.2	Q25.4	09.29.16	Descending-abdominal aorta hypoplasia (middle aortic syndrome),
426	Aortic arch atresia						
	Aortic arch atresia,	to 1	09.29.20	747.1	Q25.2	09.29.31	Interrupted aortic arch,
	Aortic arch atresia: fibrous cord,	to 1	09.29.21	747.1	Q25.2	09.29.31	Interrupted aortic arch,
	Aortic arch atresia: fibrous cord distal to subclavian artery (type A),	to 1	09.29.22	747.1	Q25.2	09.29.31	Interrupted aortic arch,
	Aortic arch atresia: fibrous cord between subclavian & common carotid arteries (type B),	to 1	09.29.23	747.1	Q25.2	09.29.31	Interrupted aortic arch,
	Aortic arch atresia: fibrous cord between carotid arteries (type C),	to 1	09.29.24	747.1	Q25.2	09.29.31	Interrupted aortic arch,
	Aortic arch atresia: luminal,	to 1	09.29.40	747.1	Q25.2	09.29.31	Interrupted aortic arch,
	Aortic arch atresia: luminal distal to subclavian artery (type A),	to 1	09.29.41	747.1	Q25.2	09.29.31	Interrupted aortic arch,
	Aortic arch atresia: luminal between subclavian & common carotid arteries (type B),	to 1	09.29.42	747.1	Q25.2	09.29.31	Interrupted aortic arch,
	Aortic arch atresia: luminal between carotid arteries (type C),	to 1	09.29.43	747.1	Q25.2	09.29.31	Interrupted aortic arch,
427	Interrupted aortic arch						
	Interrupted aortic arch,	to 1	09.29.31	747.1	Q25.4	09.29.31	Interrupted aortic arch,
	Interrupted aortic arch: distal to subclavian artery (type A),	to 1	09.29.32	747.1	Q25.4	09.29.31	Interrupted aortic arch,
	Interrupted aortic arch: between subclavian & common carotid arteries (type B),	to 1	09.29.33	747.1	Q25.4	09.29.31	Interrupted aortic arch,
	Interrupted aortic arch: between carotid arteries (type C),	to 1	09.29.34	747.1	Q25.4	09.29.31	Interrupted aortic arch,
	Interrupted aortic arch related abnormality,	to 1	09.29.35	759.8	Q89.8	14.03.29	Thoracic-mediastinal abnormality,
440	Abnormalities of aortic arch branches						
	Aortic arch branch abnormality,	to 3230	09.30.00	747.6	Q27.8	09.30.00	Aortic arch branch abnormality,
	Abnormality of aortic arch branch: congenital,	to 1	09.30.17	747.6	Q27.8	09.30.00	Aortic arch branch abnormality,
	Left aortic arch branching pattern,	to 1	09.30.25				not relevant
	Right aortic arch (mirror image) branching pattern,	to 1	09.30.26	747.6	Q27.8	09.30.00	Aortic arch branch abnormality,
	Distal origin innominate artery,	to 405	09.30.21	747.6	Q27.8	09.30.00	Aortic arch branch abnormality,
	Distal origin of innominate artery with tracheal compression,	to 405	09.30.23	747.2	Q25.4	09.31.00	Vascular ring,
	Retrosophageal origin of aberrant innominate artery,	to 405	09.30.27	747.6	Q27.8	09.30.00	Aortic arch branch abnormality,
	Separate origins of internal & external carotid arteries,	to 1	09.30.28	747.6	Q27.8	09.30.00	Aortic arch branch abnormality,
	Common origin of the innominate artery & left common carotid artery (Bovine arch),	to 1	09.30.31	747.6	Q27.8	09.30.00	Aortic arch branch abnormality,
	Left common carotid artery arising from innominate artery,	to 1	09.30.32	747.6	Q27.8	09.30.00	Aortic arch branch abnormality,
	Aberrant subclavian artery	to 445	not relevant				
	Isolation of aortic arch branch	to 450	not relevant				
	Aortic diverticulum (of Kommerell),	to 1	09.30.22	747.2	Q27.8	09.30.00	Aortic arch branch abnormality,
	Tortuosity of aortic branches,	to 960	09.30.24	747.2	Q27.8	09.30.00	Aortic arch branch abnormality,
445	Aberrant origin subclavian artery						
	Aberrant origin subclavian artery,	to 405	09.30.01	747.6	Q27.8	09.30.00	Aortic arch branch abnormality,
	Aberrant origin right subclavian artery,	to 405	09.30.02	747.6	Q27.8	09.30.02	Aberrant origin right subclavian artery,
	Aberrant origin left subclavian artery,	to 405	09.30.04	747.6	Q27.8	09.30.04	Aberrant origin left subclavian artery,
450	Isolation of aortic arch branch						
	Isolation of aortic arch branch,	to 451	09.30.16	747.6	Q27.8	09.30.00	Aortic arch branch abnormality,
	Isolation of innominate artery,	to 451	09.30.11	747.6	Q27.8	09.30.00	Aortic arch branch abnormality,
	Isolation of left common carotid artery,	to 451	09.30.12	747.6	Q27.8	09.30.00	Aortic arch branch abnormality,
	Isolation of right common carotid artery,	to 451	09.30.13	747.6	Q27.8	09.30.00	Aortic arch branch abnormality,
	Isolation of subclavian artery,	to 451	09.30.18	747.6	Q27.8	09.30.00	Aortic arch branch abnormality,
	Isolation of left subclavian artery,	to 451	09.30.14	747.6	Q27.8	09.30.00	Aortic arch branch abnormality,
	Isolation of right subclavian artery,	to 451	09.30.15	747.6	Q27.8	09.30.00	Aortic arch branch abnormality,
451 @	Isolation of aortic arch branches - qualifiers						
	- with origin from arterial duct or ligament,	to 1	Q1.28.51				not relevant
	- with origin from patent arterial duct,	to 1	Q1.28.52				not relevant
	- with origin from arterial ligament,	to 1	Q1.28.53				not relevant
	- characteristics unknown or unspecified,	to 1	Q1.90.83				not relevant
	no entry	to 1	not relevant				
	_____ End of branch _____						
455	Coronary arterial abnormalities						
	Coronary arterial abnormality,	to 467	09.46.00	746.8	Q24.5	09.46.00	Coronary arterial abnormality,
	Coronary arterial abnormality: congenital,	to 467	09.46.03	746.8	Q24.5	09.46.00	Coronary arterial abnormality,
	Coronary artery congenital anomaly,	to 467	09.46.12	746.8	Q24.5	09.46.00	Coronary arterial abnormality,
	Coronary artery: anomalous aortic origin or course,	to 467	09.42.00	746.8	Q24.5	09.42.00	Coronary artery: anomalous aortic origin or course,
	Anomalous aortic origin of coronary artery (AAOCA),	to 467	09.42.20	746.8	Q24.5	09.42.20	Anomalous aortic origin of coronary artery (AAOCA),
	Coronary origin from aorta with normal ventriculo-arterial connections	to 456	not relevant				
	Coronary origin from aorta with abnormal ventriculo-arterial connections (including transposition of great arteries)	to 457	not relevant				
	Anomalous origin of coronary artery from pulmonary arterial tree	to 458	not relevant				
	Aberrant course of coronary arteries	to 459	not relevant				
	Coronary orifice position and abnormalities	to 460	not relevant				
	Coronary fistula(s) & sinusoids	to 462	not relevant				
	Coronary arterial supply to conduction system	to 473	not relevant				
	Coronary arterial aneurysm(s),	to 464	09.46.01	746.8	Q24.5	09.46.01	Coronary arterial aneurysm(s),
	Coronary arterial aneurysm(s): congenital,	to 464	09.46.14	746.8	Q24.5	09.46.01	Coronary arterial aneurysm(s),
	Congenital coronary arterial calcification,	to 467	09.46.02	746.8	Q24.5	09.46.00	Coronary arterial abnormality,
	Coronary arterial stenosis: congenital,	to 470	09.46.10	746.8	Q24.5	09.46.00	Coronary arterial abnormality,
	Stenosis(es) of distal coronary artery (ies): congenital,	to 470	09.46.15	746.8	Q24.5	09.46.00	Coronary arterial abnormality,
	Coronary compression,	to 470	09.46.17	746.8	Q24.5	09.46.00	Coronary arterial abnormality,
	Coronary compression between great arteries,	to 470	09.46.18	746.8	Q24.5	09.46.00	Coronary arterial abnormality,
	Coronary arterial hypoplasia: congenital,	to 467	09.46.19	746.8	Q24.5	09.46.00	Coronary arterial abnormality,
	Coronary arterial dysplasia,	to 467	09.46.40	746.8	Q24.5	09.46.00	Coronary arterial abnormality,
	Congenital ostial atresia of left main coronary artery (CALM),	to 467	09.46.13	746.8	Q24.5	09.46.00	Coronary arterial abnormality,
	Congenital ostial atresia of right coronary artery (CARM),	to 467	09.46.41	746.8	Q24.5	09.46.00	Coronary arterial abnormality,
	Coronary arterial interruption,	to 467	09.46.16	746.8	Q24.5	09.46.00	Coronary arterial abnormality,
	Right ventricle dependent coronary circulation,	to 462	09.46.06	746.8	Q24.5	09.46.06	Right ventricle dependent coronary circulation,
	Non-right ventricular dependent coronary circulation,	to 1	09.46.11				not relevant
	Right dominant coronary system (right coronary artery supplies post descending branch),	to 1	09.46.07				not relevant
	Left dominant coronary system (left coronary artery supplies post descending branch),	to 1	09.46.08				not relevant
	Balanced coronary system (right & left coronary arteries supply post descending branch),	to 1	09.46.09				not relevant
456	Coronary arterial origin with normal ventriculo-arterial connections						
	Coronary arteries in usual arrangement,	to 1	09.46.20				not relevant
	Anomalous aortic origin of coronary artery,	to 459	09.46.29	746.8	Q24.5	09.42.00	Coronary artery: anomalous aortic origin or course,
	Anomalous coronary origin: left coronary artery from right coronary aortic sinus,	to 459	09.46.21	746.8	Q24.5	09.42.00	Coronary artery: anomalous aortic origin or course,
	Anomalous coronary origin: left coronary artery from right coronary artery,	to 459	09.46.39	746.8	Q24.5	09.42.00	Coronary artery: anomalous aortic origin or course,
	Anomalous coronary origin: circumflex from right coronary aortic sinus,	to 459	09.46.22	746.8	Q24.5	09.42.00	Coronary artery: anomalous aortic origin or course,
	Anomalous coronary origin: circumflex from right coronary artery,	to 459	09.46.23	746.8	Q24.5	09.42.00	Coronary artery: anomalous aortic origin or course,
	Anomalous coronary origin: left anterior descending from right coronary aortic sinus,	to 459	09.46.24	746.8	Q24.5	09.42.00	Coronary artery: anomalous aortic origin or course,
	Anomalous coronary origin: left anterior descending from right coronary artery,	to 459	09.46.25	746.8	Q24.5	09.42.00	Coronary artery: anomalous aortic origin or course,
	Anomalous coronary origin: right coronary artery from left coronary aortic sinus,	to 459	09.46.26	746.8	Q24.5	09.42.00	Coronary artery: anomalous aortic origin or course,
	Anomalous coronary origin: right coronary artery from left coronary artery,	to 459	09.46.33	746.8	Q24.5	09.42.00	Coronary artery: anomalous aortic origin or course,
	Anomalous coronary origin: right coronary artery from left anterior descending,	to 459	09.46.37	746.8	Q24.5	09.42.00	Coronary artery: anomalous aortic origin or course,
	Anomalous coronary origin: right coronary artery from circumflex artery,	to 459	09.46.38	746.8	Q24.5	09.42.00	Coronary artery: anomalous aortic origin or course,
	Anomalous coronary origin: right coronary artery from left coronary artery aortic sinus + left coronary artery from right coronary artery aortic sinus (inverted),	to 459	09.46.34	746.8	Q24.5	09.42.00	Coronary artery: anomalous aortic origin or course,
	Anomalous coronary origin: single coronary artery	to 461	not relevant				
	Anomalous coronary origin: dual left anterior descending,	to 459	09.46.31	746.8	Q24.5	09.42.00	Coronary artery: anomalous aortic origin or course,
	Anomalous coronary origin: dual left anterior descending from both right + left coronary arteries,	to 459	09.46.30	746.8	Q24.5	09.42.00	Coronary artery: anomalous aortic origin or course,
	Anomalous coronary origin: large conus artery from right coronary artery,	to 459	09.46.32	746.8	Q24.5	09.42.00	Coronary artery: anomalous aortic origin or course,
	Coronary arteries from anterior sinus,	to 459	09.46.35				not relevant
	Coronary arteries from both sinuses (bicuspid valve),	to 459	09.46.36				not relevant
	Conus artery from separate aortic sinus orifice,	to 468	09.42.18	746.8	Q24.5	09.42.00	Coronary artery: anomalous aortic origin or course,
	Sinus node artery from separate aortic sinus orifice,	to 468	09.42.19	746.8	Q24.5	09.42.00	Coronary artery: anomalous aortic origin or course,

457 Coronary origin from aorta with abnormal ventriculo-arterial connections (Leiden convention)

Left coronary artery arising from aortic sinus to right of nonfacing aortic sinus (Sinus 1); right coronary artery from aortic sinus to left of nonfacing aortic sinus (Sinus 2) (usual),	to 459	09.42.03				not relevant
Left anterior descending artery arising from aortic sinus to right of nonfacing aortic sinus (Sinus 1); circumflex & right coronary arteries from aortic sinus to left of nonfacing aortic sinus (Sinus 2),	to 459	09.42.04	746.8	Q24.5	09.42.00	Coronary artery: anomalous aortic origin or course,
Left anterior descending & right coronary arteries arising from aortic sinus to right of nonfacing aortic sinus (Sinus 1); circumflex artery from aortic sinus to left of nonfacing aortic sinus (Sinus 2),	to 459	09.42.08	746.8	Q24.5	09.42.00	Coronary artery: anomalous aortic origin or course,
Left and right coronary arteries arising with dual orifices from aortic sinus to right of nonfacing aortic sinus (Sinus 1),	to 459	09.42.02	746.8	Q24.5	09.42.00	Coronary artery: anomalous aortic origin or course,
Single coronary artery from aortic sinus to right of nonfacing aortic sinus (Sinus 1),	to 461	09.42.11	746.8	Q24.5	09.42.00	Coronary artery: anomalous aortic origin or course,
Right coronary artery arising from aortic sinus to right of nonfacing aortic sinus (Sinus 1); left coronary artery from aortic sinus to left of nonfacing aortic sinus (Sinus 2) (inverted),	to 459	09.42.06	746.8	Q24.5	09.42.00	Coronary artery: anomalous aortic origin or course,
Right coronary and circumflex arteries arising from aortic sinus to right of nonfacing aortic sinus (Sinus 1); left anterior descending artery from aortic sinus to left of nonfacing aortic sinus (Sinus 2),	to 459	09.42.07	746.8	Q24.5	09.42.00	Coronary artery: anomalous aortic origin or course,
Circumflex coronary artery arising from aortic sinus to right of nonfacing aortic sinus (Sinus 1); left anterior descending & right coronary arteries from aortic sinus to left of nonfacing aortic sinus (Sinus 2),	to 459	09.42.13	746.8	Q24.5	09.42.00	Coronary artery: anomalous aortic origin or course,
Left and right coronary arteries arising with dual orifices from aortic sinus to left of nonfacing aortic sinus (Sinus 2),	to 459	09.42.05	746.8	Q24.5	09.42.00	Coronary artery: anomalous aortic origin or course,
Single coronary artery from aortic sinus to left of nonfacing aortic sinus (Sinus 2),	to 461	09.42.12	746.8	Q24.5	09.42.00	Coronary artery: anomalous aortic origin or course,
Coronary artery arising from aortic sinus to right of nonfacing aortic sinus (Sinus 1),	to 467	09.42.14	746.8	Q24.5	09.42.00	Coronary artery: anomalous aortic origin or course,
Coronary artery arising from aortic sinus to left of nonfacing aortic sinus (Sinus 2),	to 467	09.42.15	746.8	Q24.5	09.42.00	Coronary artery: anomalous aortic origin or course,
Coronary artery arising from non-facing aortic sinus (Sinus 3),	to 467	09.42.01	746.8	Q24.5	09.42.00	Coronary artery: anomalous aortic origin or course,
Single coronary arising from non-facing aortic sinus (Sinus 3),	to 467	09.42.16	746.8	Q24.5	09.42.00	Coronary artery: anomalous aortic origin or course,
Accessory coronary artery arising from aortic sinus,	to 468	09.42.09	746.8	Q24.5	09.42.00	Coronary artery: anomalous aortic origin or course,
Conus artery arising from separate aortic sinus orifice,	to 468	09.42.18	746.8	Q24.5	09.42.00	Coronary artery: anomalous aortic origin or course,
Sinus node artery arising from separate aortic sinus orifice,	to 468	09.42.19	746.8	Q24.5	09.42.00	Coronary artery: anomalous aortic origin or course,
Coronary arterial origin anomalous,	to 459	09.42.10	746.8	Q24.5	09.42.00	Coronary artery: anomalous aortic origin or course,

458 Anomalous origin of coronary artery from pulmonary arterial tree

Anomalous origin of coronary artery from pulmonary artery,	to 467	09.41.01	746.8	Q24.5	09.41.01	Anomalous origin of coronary artery from pulmonary artery,
Anomalous origin of coronary artery from right pulmonary artery,	to 467	09.46.04	746.8	Q24.5	09.41.01	Anomalous origin of coronary artery from pulmonary artery,
Anomalous origin of coronary artery from left pulmonary artery,	to 467	09.46.05	746.8	Q24.5	09.41.01	Anomalous origin of coronary artery from pulmonary artery,
Anomalous origin of left coronary artery from pulmonary artery (ALCAPA),	to 468	09.41.03	746.8	Q24.5	09.41.01	Anomalous origin of coronary artery from pulmonary artery,
Anomalous origin of coronary artery from pulmonary artery - left anterior descending,	to 468	09.41.04	746.8	Q24.5	09.41.01	Anomalous origin of coronary artery from pulmonary artery,
Anomalous origin of coronary artery from pulmonary artery - circumflex,	to 468	09.41.05	746.8	Q24.5	09.41.01	Anomalous origin of coronary artery from pulmonary artery,
Anomalous origin of right coronary artery from pulmonary artery (ARCAPA),	to 468	09.41.02	746.8	Q24.5	09.41.01	Anomalous origin of coronary artery from pulmonary artery,
Anomalous origin of coronary artery from pulmonary artery - both coronary arteries,	to 468	09.41.06	746.8	Q24.5	09.41.01	Anomalous origin of coronary artery from pulmonary artery,
Anomalous origin of coronary artery from pulmonary artery - accessory coronary,	to 468	09.41.07	746.8	Q24.5	09.41.01	Anomalous origin of coronary artery from pulmonary artery,
Anomalous origin of coronary artery from pulmonary artery related abnormally,	to 468	09.41.08	746.8	Q24.8	01.01.39	Cardiac abnormality,

459 Course of coronary arteries

Normal course of coronary arteries,	to 1	09.43.00				not relevant
Course of sinus node & atrioventricular node coronary arteries	to 473	not relevant				
Aberrant course of coronary artery,	to 467	09.43.01	746.8	Q24.5	09.42.00	Coronary artery: anomalous aortic origin or course,
Aberrant course of coronary artery: across right ventricular outflow tract,	to 1	09.43.18	746.8	Q24.5	09.43.18	Aberrant course of coronary artery: across right ventricular outflow tract,
Aberrant course of coronary artery: left anterior descending from right coronary artery across right ventricular outflow tract,	to 1	09.43.04	746.8	Q24.5	09.43.18	Aberrant course of coronary artery: across right ventricular outflow tract,
Aberrant course of coronary artery between aorta & pulmonary trunk,	to 467	09.43.02	746.8	Q24.5	09.42.00	Coronary artery: anomalous aortic origin or course,
Course of coronary artery posterior to pulmonary trunk,	to 467	09.43.06	746.8	Q24.5	09.42.00	Coronary artery: anomalous aortic origin or course,
Course of coronary artery posterior to aorta,	to 467	09.43.07	746.8	Q24.5	09.42.00	Coronary artery: anomalous aortic origin or course,
Course of coronary artery anterior to pulmonary artery,	to 467	09.43.19	746.8	Q24.5	09.42.00	Coronary artery: anomalous aortic origin or course,
Course of coronary artery anterior to aorta,	to 467	09.43.20	746.8	Q24.5	09.42.00	Coronary artery: anomalous aortic origin or course,
Course of coronary artery anterior to great vessels,	to 467	09.43.08	746.8	Q24.5	09.42.00	Coronary artery: anomalous aortic origin or course,
Course of coronary artery: posterior to great vessels,	to 467	09.43.21	746.8	Q24.5	09.42.00	Coronary artery: anomalous aortic origin or course,
Aberrant course of coronary artery: septal course through infundibular (conal) septum,	to 467	09.43.22	746.8	Q24.5	09.42.00	Coronary artery: anomalous aortic origin or course,
Intramural proximal coronary arterial course,	to 467	09.43.05	746.8	Q24.5	09.43.05	Intramural proximal coronary arterial course,
Intramural proximal coronary arterial course within aortic sinus,	to 467	09.43.09	746.8	Q24.5	09.43.05	Intramural proximal coronary arterial course,
Intramural proximal coronary arterial course across commissure,	to 467	09.43.10	746.8	Q24.5	09.43.05	Intramural proximal coronary arterial course,
Intramural proximal coronary arterial course above sinus,	to 467	09.43.11	746.8	Q24.5	09.43.05	Intramural proximal coronary arterial course,
Mycardial coronary bridging (intramyocardial coronary arterial course),	to 467	09.43.12	746.8	Q24.5	09.42.00	Coronary artery: anomalous aortic origin or course,
Non-intramural course of coronary artery,	to 467	09.43.15	746.8	Q24.8	not relevant	
Abnormal coronary arterial course related problem,	to 1	09.43.03	746.8	Q24.8	01.01.39	Cardiac abnormality,
no entry	to 1	not relevant				

460 Coronary orifice position and abnormalities

Normal coronary orifice position,	to 467	09.44.00				not relevant
Abnormal coronary orifice position,	to 467	09.44.01	746.8	Q24.5	09.46.00	Coronary arterial abnormality,
Coronary orifice abnormally high (above sinotubular junction),	to 467	09.44.02	746.8	Q24.5	09.46.00	Coronary arterial abnormality,
Coronary orifice abnormally low,	to 467	09.44.09	746.8	Q24.5	09.46.00	Coronary arterial abnormality,
Coronary orifice asymmetrical,	to 467	09.44.03	746.8	Q24.5	09.46.00	Coronary arterial abnormality,
Dual coronary orifices within sinus,	to 467	09.44.04	746.8	Q24.5	09.46.00	Coronary arterial abnormality,
Dual coronary orifices within sinus: double barrel,	to 467	09.44.15	746.8	Q24.5	09.46.00	Coronary arterial abnormality,
Dual coronary orifices within sinus: widely spaced,	to 467	09.44.16	746.8	Q24.5	09.46.00	Coronary arterial abnormality,
Common (single) coronary orifice,	to 467	09.44.14	746.8	Q24.5	09.46.00	Coronary arterial abnormality,
Coronary orifice stenosis (congenital),	to 467	09.44.05	746.8	Q24.5	09.46.00	Coronary arterial abnormality,
Coronary orifice slit-like,	to 467	09.44.17	746.8	Q24.5	09.46.00	Coronary arterial abnormality,
Coronary orifice atresia,	to 467	09.44.06	746.8	Q24.5	09.46.00	Coronary arterial abnormality,
Coronary orifice restricted by valve cusp tissue (isolation),	to 467	09.44.10	746.8	Q24.5	09.46.00	Coronary arterial abnormality,
Coronary orifice restricted by valve cusp tissue (isolation): partial,	to 467	09.44.11	746.8	Q24.5	09.46.00	Coronary arterial abnormality,
Coronary orifice restricted by valve cusp tissue (isolation): complete,	to 467	09.44.12	746.8	Q24.5	09.46.00	Coronary arterial abnormality,
Coronary orifice restricted by tumour,	to 467	09.44.13	746.8	Q24.5	09.46.00	Coronary arterial abnormality,
Anomalous coronary artery with acute angulation (less than 45 degrees to aorta),	to 467	09.44.08	746.8	Q24.5	09.46.00	Coronary arterial abnormality,
Anomalous coronary artery without acute angulation (over 45 degrees to aorta),	to 467	09.44.18				not relevant
Anomalous coronary orifice position related abnormally,	to 467	09.44.07	746.8	Q24.8	01.01.39	Cardiac abnormality,

461 Single coronary artery

Anomalous coronary origin: single coronary artery,	to 1	09.42.17	746.8	Q24.5	09.46.00	Coronary arterial abnormality,
Anomalous coronary origin: single coronary from right coronary aortic sinus,	to 1	09.46.27	746.8	Q24.5	09.42.00	Coronary artery: anomalous aortic origin or course,
Anomalous coronary origin: single coronary from left coronary aortic sinus,	to 1	09.46.28	746.8	Q24.5	09.42.00	Coronary artery: anomalous aortic origin or course,
Single coronary supplying all of heart,	to 468	09.43.13	746.8	Q24.5	09.42.00	Coronary artery: anomalous aortic origin or course,
Single coronary supplying all of heart: right coronary artery distribution from distal left coronary artery,	to 468	09.43.23	746.8	Q24.5	09.42.00	Coronary artery: anomalous aortic origin or course,
Single coronary supplying all of heart: left coronary artery distribution from distal right coronary artery,	to 468	09.43.24	746.8	Q24.5	09.42.00	Coronary artery: anomalous aortic origin or course,
Single coronary dividing to right and left coronary arteries,	to 468	09.43.14	746.8	Q24.5	09.42.00	Coronary artery: anomalous aortic origin or course,
Single coronary: left coronary giving right branch running anterior to great vessels,	to 468	09.43.26	746.8	Q24.5	09.42.00	Coronary artery: anomalous aortic origin or course,
Single coronary: left coronary giving right branch running posterior to great vessels,	to 468	09.43.27	746.8	Q24.5	09.42.00	Coronary artery: anomalous aortic origin or course,
Single coronary: right coronary giving left branch running anterior to great vessels,	to 468	09.43.28	746.8	Q24.5	09.42.00	Coronary artery: anomalous aortic origin or course,
Single coronary: right coronary giving left branch running posterior to great vessels,	to 468	09.43.29	746.8	Q24.5	09.42.00	Coronary artery: anomalous aortic origin or course,
Single coronary: right coronary giving left branch running anterior to great vessels,	to 468	09.43.37	746.8	Q24.5	09.42.00	Coronary artery: anomalous aortic origin or course,
Single coronary: right coronary giving left branch running between great vessels,	to 468	09.43.38	746.8	Q24.5	09.42.00	Coronary artery: anomalous aortic origin or course,

462 Coronary fistula(s) & sinusoids

Coronary fistula(s) or sinusoids,	to 464	09.45.00	746.8	Q24.5	09.45.01	Coronary fistula,
Coronary fistula(s) or sinusoids not apparent,	to 1	09.45.15				not relevant
Coronary fistula,	to 463	09.45.01	746.8	Q24.5	09.45.01	Coronary fistula,
Coronary fistula: congenital,	to 463	09.45.16	746.8	Q24.5	09.45.01	Coronary fistula,
Coronary fistula: congenital: single,	to 463	09.45.17	746.8	Q24.5	09.45.01	Coronary fistula,
Coronary fistula: congenital: multiple,	to 463	09.45.18	746.8	Q24.5	09.45.01	Coronary fistula,
Coronary fistula with proximal coronary segment dilation to fistula with normal distal end (type A),	to 463	09.45.19	746.8	Q24.5	09.45.01	Coronary fistula,
Coronary fistula with entire coronary dilated (type B),	to 463	09.45.20	746.8	Q24.5	09.45.01	Coronary fistula,
Coronary fistulas within right ventricle ('sinusoidal'),	to 464	09.45.11	746.8	Q24.5	09.45.11	Coronary fistulas within right ventricle ('sinusoidal'),
Coronary fistulas within left ventricle ('sinusoidal'),	to 464	09.45.12	746.8	Q24.5	09.45.01	Coronary fistula,
Coronary fistula(s) or sinusoid related abnormality,	to 464	09.45.08	746.8	Q24.8	01.01.39	Cardiac abnormality,

463 Coronary fistula(s) drainage sites

Coronary fistula to right atrium,	to 464	09.45.02	746.8	Q24.5	09.45.01	Coronary fistula,
Coronary fistula to right ventricle,	to 464	09.45.03	746.8	Q24.5	09.45.01	Coronary fistula,
Coronary fistula to left atrium,	to 464	09.45.04	746.8	Q24.5	09.45.01	Coronary fistula,
Coronary fistula to left ventricle,	to 464	09.45.05	746.8	Q24.5	09.45.01	Coronary fistula,
Coronary fistula to pulmonary artery,	to 464	09.45.06	746.8	Q24.5	09.45.01	Coronary fistula,
Coronary arteriovenous fistula,	to 464	09.45.07	746.8	Q24.5	09.45.01	Coronary fistula,
Coronary arteriovenous fistula to coronary sinus,	to 464	09.45.13	746.8	Q24.5	09.45.01	Coronary fistula,
Coronary arteriovenous fistula to superior caval vein (SVC),	to 464	09.45.14	746.8	Q24.5	09.45.01	Coronary fistula,
no entry	to 464	not relevant				

464 Coronary arterial characteristics in presence of fistula(s) or aneurysm

- unobstructed coronary artery,	to 467	Q1.46.01				not relevant
- coronary arterial stenosis,	to 467	Q1.46.02				not relevant
- coronary arterial multiple stenoses,	to 467	Q1.46.03				not relevant
- coronary artery complete obstruction,	to 467	Q1.46.04				not relevant
- coronary artery without connection to aorta,	to 467	Q1.46.05				not relevant
- with coronary flow away from aorta,	to 467	Q1.46.20				not relevant
- with coronary flow towards aorta,	to 467	Q1.46.21				not relevant
- fusiform aneurysm,	to 467	Q1.46.06				not relevant
- sacular aneurysm,	to 467	Q1.46.07				not relevant
- less than 4mm dilation,	to 467	Q1.46.16				not relevant
- less than 4-8mm,	to 467	Q1.46.08				not relevant

- giant (over 8mm),	to 467	Q1.46.09	not relevant
- with thrombosis,	to 467	Q1.46.58	not relevant
- without thrombosis,	to 467	Q1.46.19	not relevant
- calcified,	to 467	Q1.40.57	not relevant
- with aneurysm only,	to 467	Q1.46.14	not relevant
- with aneurysm and stenosis	to 467	Q1.46.15	not relevant
- with stenosis only,	to 467	Q1.46.18	not relevant
- ruptured,	to 978	Q1.40.46	not relevant
- intact (non-ruptured),	to 978	Q1.40.45	not relevant
- diffuse ectasia of one vessel,	to 467	Q1.46.10	not relevant
- diffuse ectasia of two to three vessels,	to 467	Q1.46.11	not relevant
- localised aneurysm in one vessel,	to 467	Q1.46.12	not relevant
- localised aneurysm in two or three vessels,	to 467	Q1.46.13	not relevant
- with atherosclerosis,	to 467	Q1.46.17	not relevant
no entry	to 467	not relevant	

467 @ Coronary artery involved in abnormality - qualifiers

Post procedural bypass grafts	to 1635	not relevant	
- left coronary artery,	to 471	Q1.45.51	not relevant
- left main stem coronary artery,	to 471	Q5.23.62	not relevant
- left anterior descending,	to 471	Q1.45.52	not relevant
- left anterior descending: proximal,	to 471	Q1.46.71	not relevant
- left anterior descending: mid,	to 471	Q1.46.72	not relevant
- left anterior descending: distal,	to 471	Q1.46.73	not relevant
- circumflex,	to 471	Q1.45.53	not relevant
- circumflex: proximal,	to 471	Q1.46.74	not relevant
- circumflex: atrioventricular groove,	to 471	Q1.46.75	not relevant
- circumflex: distal,	to 471	Q1.46.76	not relevant
- right coronary artery,	to 471	Q1.45.54	not relevant
- right coronary artery: proximal,	to 471	Q1.46.77	not relevant
- right coronary artery: mid,	to 471	Q1.46.78	not relevant
- right coronary artery: distal,	to 471	Q1.46.79	not relevant
- native coronary artery,	to 471	Q1.46.80	not relevant
Single coronary and multiple coronary combinations: qualifiers	to 469	not relevant	
- both coronary arteries,	to 471	Q1.45.55	not relevant
- accessory coronary,	to 471	Q1.45.56	not relevant
- marginal branch,	to 471	Q1.45.43	not relevant
- obtuse marginal branch,	to 471	Q1.45.57	not relevant
- first obtuse marginal branch,	to 471	Q5.23.69	not relevant
- second obtuse marginal branch,	to 471	Q5.23.70	not relevant
- third obtuse marginal branch,	to 471	Q5.23.71	not relevant
- acute marginal branch,	to 471	Q1.45.58	not relevant
- diagonal branch,	to 471	Q1.45.60	not relevant
- first diagonal branch,	to 471	Q5.23.64	not relevant
- second diagonal branch,	to 471	Q5.23.65	not relevant
- third diagonal branch,	to 471	Q5.23.77	not relevant
- posterior descending branch,	to 471	Q1.45.61	not relevant
- right posterior descending branch,	to 471	Q5.23.75	not relevant
- left posterior descending branch,	to 471	Q5.23.72	not relevant
- ramus intermedius branch	to 471	Q5.23.67	not relevant
- left anterior descending septal perforator branch,	to 471	Q5.23.66	not relevant
- extended left ventricular branch,	to 471	Q5.23.76	not relevant
- sinus node artery,	to 471	Q1.45.41	not relevant
- atrioventricular nodal artery,	to 471	Q1.46.56	not relevant
- conus artery,	to 471	Q1.45.42	not relevant
- multiple coronary arteries,	to 471	Q1.45.92	not relevant
- aberrant coronary artery,	to 471	Q1.46.57	not relevant
- coronary artery (DESCRIBE),	to 471	Q1.45.59	not relevant
- unspecified coronary artery,	to 471	Q1.46.81	not relevant
no entry	to 471	not relevant	

468 @ Coronary arterial origin from sinus or commissure - qualifiers

- coronary arterial origin from left coronary sinus,	to 1	Q1.45.71	not relevant
- coronary arterial origin from right coronary sinus,	to 1	Q1.45.72	not relevant
- coronary arterial origin from non-coronary sinus,	to 1	Q1.45.73	not relevant
- coronary arterial origin from sinus 1 (right hand) pulmonary sinus,	to 1	Q1.45.74	not relevant
- coronary arterial origin from sinus 2 (left hand) pulmonary sinus,	to 1	Q1.45.75	not relevant
- coronary arterial origin from non-facing pulmonary sinus,	to 1	Q1.45.76	not relevant
- coronary arterial origin from commissure between sinus 1 & non-facing sinus,	to 1	Q1.45.77	not relevant
- coronary arterial origin from commissure between sinus 2 & non-facing sinus,	to 1	Q1.45.78	not relevant
- coronary arterial origin from commissure between sinus 1 & sinus 2,	to 1	Q1.45.79	not relevant
- with high take off from pulmonary trunk,	to 1	Q1.45.80	not relevant
- with central take off from sinus,	to 1	Q1.45.81	not relevant
- with right pericommisural take off from sinus,	to 1	Q1.45.82	not relevant
- with left pericommisural take off from sinus,	to 1	Q1.45.83	not relevant
- coronary arterial origin from right pulmonary artery,	to 1	Q1.45.84	not relevant
- coronary arterial origin from left pulmonary artery,	to 1	Q1.45.85	not relevant
- coronary arterial origin from anterior sinus,	to 1	Q1.45.86	not relevant
- coronary arterial origin from posterior sinus,	to 1	Q1.45.87	not relevant
- coronary arterial origin from ascending aorta,	to 1	Q1.45.88	not relevant
- coronary arterial origin (DESCRIBE),	to 1	Q1.45.89	not relevant
Course of coronary arteries	to 459	not relevant	
no entry	to 1	not relevant	

469 @ Single coronary and multiple coronary combinations: qualifiers

- single coronary,	to 468	Q1.45.44	not relevant
- left anterior descending + circumflex (single orifice),	to 468	Q1.45.62	not relevant
- right coronary artery + circumflex (single orifice),	to 468	Q1.45.63	not relevant
- left anterior descending + right coronary artery (single orifice),	to 468	Q1.45.64	not relevant
- right coronary artery from left coronary artery (single orifice),	to 468	Q1.45.90	not relevant
- left coronary artery from right coronary artery (single orifice),	to 468	Q1.45.91	not relevant
- left anterior descending + circumflex (dual orifices),	to 468	Q1.45.65	not relevant
- right coronary artery + circumflex (dual orifices),	to 468	Q1.45.66	not relevant
- left anterior descending + right coronary artery (dual orifices),	to 468	Q1.45.67	not relevant
- left anterior descending + right coronary artery+ circumflex (single orifice),	to 468	Q1.45.68	not relevant
- left anterior descending + right coronary artery+ circumflex (multiple orifices),	to 468	Q1.45.93	not relevant
- conus artery + left anterior descending (single orifice),	to 468	Q1.45.94	not relevant
- conus artery + right coronary artery (single orifice),	to 468	Q1.45.95	not relevant
- conus artery + circumflex (single orifice),	to 468	Q1.45.96	not relevant
- conus artery + left anterior descending (dual orifices),	to 468	Q1.45.97	not relevant
- conus artery + right coronary artery (dual orifices),	to 468	Q1.45.98	not relevant
- conus artery + circumflex (dual orifices),	to 468	Q1.45.99	not relevant
- sinus node artery + left anterior descending (single orifice),	to 468	Q1.46.50	not relevant
- sinus node artery + right coronary artery (single orifice),	to 468	Q1.46.51	not relevant
- sinus node artery + circumflex (single orifice),	to 468	Q1.46.52	not relevant
- sinus node artery + left anterior descending (dual orifices),	to 468	Q1.46.53	not relevant
- sinus node artery + right coronary artery (dual orifices),	to 468	Q1.46.54	not relevant
- sinus node artery + circumflex (dual orifices),	to 468	Q1.46.55	not relevant
no entry	to 468	not relevant	

470 @ Coronary arterial stenosis or obstruction qualifiers

- less than 50% narrowing,	to 467	Q1.40.90	not relevant
- 51-70% narrowing,	to 467	Q1.40.91	not relevant
- 50-75% narrowing,	to 467	Q1.40.98	not relevant
- 71-90% narrowing,	to 467	Q1.40.92	not relevant
- over 75% narrowing,	to 467	Q1.40.99	not relevant
- 91-99% narrowing,	to 467	Q1.40.93	not relevant
- 100% (occluded),	to 467	Q1.40.94	not relevant
- diffuse,	to 467	Q1.90.13	not relevant
- localised,	to 467	Q5.40.34	not relevant
- single site,	to 467	Q1.90.14	not relevant
- multiple sites,	to 467	Q1.90.15	not relevant
- severity unknown,	to 467	Q1.90.12	not relevant
no entry		not relevant	

471 @ Part of target coronary artery involved in abnormality or procedure - qualifiers

- proximal third,	to 1	Q5.24.51	not relevant
- middle third,	to 1	Q5.24.52	not relevant
- distal third,	to 1	Q5.24.53	not relevant
- ostium,	to 1	Q5.24.54	not relevant
- right coronary ostium,	to 1	Q5.24.55	not relevant
- left coronary ostium,	to 1	Q5.24.56	not relevant
- specific part of coronary artery (DESCRIBE),	to 1	Q5.24.59	not relevant
no entry	to 1	not relevant	

Coronary arterial supply to conduction system

Coronary arterial supply to conduction system abnormal,	to 1	09.43.30	746.8	Q24.5	09.42.00	Coronary artery: anomalous aortic origin or course,
Sinus node artery from right coronary artery,	to 1	09.43.31	746.8	Q24.5	09.42.00	Coronary artery: anomalous aortic origin or course,
Sinus node artery from left circumflex artery,	to 1	09.43.32	746.8	Q24.5	09.42.00	Coronary artery: anomalous aortic origin or course,
Sinus node artery course: posterior relative to superior caval vein,	to 1	09.43.16	746.8	Q24.5	09.42.00	Coronary artery: anomalous aortic origin or course,
Sinus node artery course: anterior relative to superior caval vein,	to 1	09.43.17	746.8	Q24.5	09.42.00	Coronary artery: anomalous aortic origin or course,
Sinus node artery course: arterial ring around superior caval vein,	to 1	09.43.25	746.8	Q24.5	09.42.00	Coronary artery: anomalous aortic origin or course,
Sinus node artery from separate aortic sinus orifice,	to 468	09.42.19	746.8	Q24.5	09.42.00	Coronary artery: anomalous aortic origin or course,
Atrioventricular nodal artery from right coronary artery,	to 1	09.43.33	746.8	Q24.5	09.42.00	Coronary artery: anomalous aortic origin or course,
Atrioventricular nodal artery from left circumflex artery extending to the crux,	to 1	09.43.34	746.8	Q24.5	09.42.00	Coronary artery: anomalous aortic origin or course,

End of branch

Arterial duct (ductus arteriosus - PDA) abnormalities

Arterial duct (ductus arteriosus) abnormality,	to 1	09.27.00	747.8	Q25.8	09.27.00	Arterial duct (ductus arteriosus) abnormality,
Arterial duct abnormality: congenital,	to 1	09.27.05	747.8	Q25.8	09.27.00	Arterial duct (ductus arteriosus) abnormality,
Right arterial ligament,	to 482	09.27.09	747	Q25.0	09.27.00	Arterial duct (ductus arteriosus) abnormality,
Right arterial duct-ligament,	to 1	09.27.01	747	Q25.0	09.27.00	Arterial duct (ductus arteriosus) abnormality,
Left arterial duct-ligament,	to 1	09.27.02	747	Q25.0	not relevant	
Left arterial ligament,	to 482	09.27.10	747	Q25.0	09.27.00	Arterial duct (ductus arteriosus) abnormality,
Patent arterial duct (PDA)	to 477	not relevant				
Closed arterial duct,	to 1	09.27.06			not relevant	
Fetal arterial duct narrowing-closure,	to 990	14.10.51	655.5	Q35.5	Q86.8	Fetal abnormality,
Patent right arterial duct (PDA),	to 990	14.10.47	655.5	Q35.5	Q86.8	Fetal abnormality,
Bilateral arterial ducts (PDAs)	to 478	not relevant				
Absent arterial duct,	to 1	09.27.03	747.8	Q25.8	09.27.00	Arterial duct (ductus arteriosus) abnormality,
Aneurysm of arterial duct,	to 976	09.27.04	747.8	Q25.8	09.27.00	Arterial duct (ductus arteriosus) abnormality,
Arterial duct dependent pulmonary circulation,	to 1	09.27.07			09.27.21	Patent arterial duct (PDA),
Arterial duct dependent systemic circulation,	to 1	09.27.08			09.27.21	Patent arterial duct (PDA),
Origin and insertion site of arterial duct (PDA)	to 480	not relevant				

Patent arterial duct - PDA

Patent arterial duct (PDA),	to 968	09.27.21	747	Q25.0	09.27.21	Patent arterial duct (PDA),
Patent left arterial duct (PDA),	to 968	09.27.26	747	Q25.0	09.27.21	Patent arterial duct (PDA),
Patent right arterial duct (PDA),	to 968	09.27.27	747	Q25.0	09.27.21	Patent arterial duct (PDA),
Patent arterial duct (PDA) with normal origin & insertion,	to 968	09.27.25	747	Q25.0	09.27.21	Patent arterial duct (PDA),
Patent arterial duct (PDA) - delayed closure (under 3 months),	to 968	09.27.22	747	Q25.0	09.27.21	Patent arterial duct (PDA),
Patent arterial duct (PDA) - persisting type (over 3 months),	to 968	09.27.23	747	Q25.0	09.27.21	Patent arterial duct (PDA),
Patent arterial duct (PDA) related abnormality,	to 1	09.27.24				
Characteristics of pulmonary-systemic blood flow (including Qp:Qs) - qualifiers	to 975	not relevant				

Bilateral arterial ducts - PDAs

Bilateral arterial ducts (PDAs),	to 968	09.27.11	747.0	Q25.0	09.27.00	Arterial duct (ductus arteriosus) abnormality,
Bilateral arterial ducts (PDAs) - left patent right closed,	to 968	09.27.12	747	Q25.0	09.27.21	Patent arterial duct (PDA),
Bilateral arterial ducts (PDAs) - right patent left closed,	to 968	09.27.13	747	Q25.0	09.27.21	Patent arterial duct (PDA),
Bilateral arterial ducts (PDAs) - both patent,	to 968	09.27.14	747	Q25.0	09.27.21	Patent arterial duct (PDA),
Bilateral arterial ducts (PDAs) - both closed,	to 1	09.27.15	747.8	Q25.8	09.27.00	Arterial duct (ductus arteriosus) abnormality,
Bilateral arterial ducts (PDAs) related abnormality,	to 1	09.27.16	746.8	Q24.8	01.01.39	Cardiac abnormality,

Origin of arterial duct - PDA

Left arterial duct in left arch,	to 481	09.27.17			not relevant	
Arterial duct from proximal descending aorta (usual),	to 481	09.27.40			not relevant	
Anomalous origin of arterial duct,	to 481	09.27.41	747.8	Q25.8	09.27.00	Arterial duct (ductus arteriosus) abnormality,
Left arterial duct in right arch,	to 481	09.27.18	747.8	Q25.8	09.27.00	Arterial duct (ductus arteriosus) abnormality,
Right arterial duct in right arch,	to 481	09.27.19	747.8	Q25.8	09.27.00	Arterial duct (ductus arteriosus) abnormality,
Arterial duct from ascending aorta,	to 481	09.27.52	747.8	Q25.8	09.27.00	Arterial duct (ductus arteriosus) abnormality,
Arterial duct from aortic arch,	to 481	09.27.53	747.8	Q25.8	09.27.00	Arterial duct (ductus arteriosus) abnormality,
Arterial duct from innominate artery,	to 481	09.27.54	747.8	Q25.8	09.27.00	Arterial duct (ductus arteriosus) abnormality,
Arterial duct from right innominate artery,	to 481	09.27.42	747.8	Q25.8	09.27.00	Arterial duct (ductus arteriosus) abnormality,
Arterial duct from left innominate artery,	to 481	09.27.47	747.8	Q25.8	09.27.00	Arterial duct (ductus arteriosus) abnormality,
Arterial duct from right subclavian artery,	to 481	09.27.43	747.8	Q25.8	09.27.00	Arterial duct (ductus arteriosus) abnormality,
Arterial duct from left subclavian artery,	to 481	09.27.44	747.8	Q25.8	09.27.00	Arterial duct (ductus arteriosus) abnormality,
Arterial duct from aortic diverticulum,	to 481	09.27.45	747.8	Q25.8	09.27.00	Arterial duct (ductus arteriosus) abnormality,
Arterial duct from retroesophageal aortic diverticulum,	to 481	09.27.46	747.8	Q25.8	09.27.00	Arterial duct (ductus arteriosus) abnormality,
Arterial duct from right carotid artery,	to 481	09.27.48	747.8	Q25.8	09.27.00	Arterial duct (ductus arteriosus) abnormality,
Arterial duct from left carotid artery,	to 481	09.27.50	747.8	Q25.8	09.27.00	Arterial duct (ductus arteriosus) abnormality,
Arterial duct from distal descending aorta,	to 481	09.27.51	747.8	Q25.8	09.27.00	Arterial duct (ductus arteriosus) abnormality,
Anomalous origin of arterial duct related abnormality,	to 1	09.27.49	746.8	Q24.8	01.01.39	Cardiac abnormality,

Insertion site of arterial duct

Arterial duct insertion anomalous,	to 1	09.27.69	747.8	Q25.8	09.27.00	Arterial duct (ductus arteriosus) abnormality,
Arterial duct insertion to proximal left pulmonary artery (usual),	to 1	09.27.61			not relevant	
Arterial duct insertion to distal left pulmonary artery,	to 1	09.27.62	747.8	Q25.8	09.27.00	Arterial duct (ductus arteriosus) abnormality,
Arterial duct insertion to pulmonary trunk,	to 1	09.27.63	747.8	Q25.8	09.27.00	Arterial duct (ductus arteriosus) abnormality,
Arterial duct insertion to right pulmonary artery,	to 1	09.27.64	747.8	Q25.8	09.27.00	Arterial duct (ductus arteriosus) abnormality,
Arterial duct insertion anomalous: site unknown,	to 1	09.27.65	747.8	Q25.8	09.27.00	Arterial duct (ductus arteriosus) abnormality,
no entry	to 1	not relevant				

Origin of arterial ligament (ligamentum arteriosum)

Left arterial ligament in left arch,	to 483	09.27.80			not relevant	
Arterial ligament from proximal descending aorta (usual),	to 483	09.27.81			not relevant	
Anomalous origin of arterial ligament,	to 483	09.27.82	747.8	Q25.8	09.27.00	Arterial duct (ductus arteriosus) abnormality,
Left arterial ligament in right arch,	to 483	09.27.83	747.8	Q25.8	09.27.00	Arterial duct (ductus arteriosus) abnormality,
Right arterial ligament in right arch,	to 483	09.27.84	747.8	Q25.8	09.27.00	Arterial duct (ductus arteriosus) abnormality,
Right arterial ligament in left arch,	to 483	09.27.85	747.8	Q25.8	09.27.00	Arterial duct (ductus arteriosus) abnormality,
Arterial ligament from ascending aorta,	to 483	09.27.86	747.8	Q25.8	09.27.00	Arterial duct (ductus arteriosus) abnormality,
Arterial ligament from aortic arch,	to 483	09.27.87	747.8	Q25.8	09.27.00	Arterial duct (ductus arteriosus) abnormality,
Arterial ligament from distal descending aorta,	to 483	09.27.88	747.8	Q25.8	09.27.00	Arterial duct (ductus arteriosus) abnormality,
Arterial ligament from right innominate artery,	to 483	09.27.89	747.8	Q25.8	09.27.00	Arterial duct (ductus arteriosus) abnormality,
Arterial ligament from left innominate artery,	to 483	09.27.90	747.8	Q25.8	09.27.00	Arterial duct (ductus arteriosus) abnormality,
Arterial ligament from right subclavian artery,	to 483	09.27.91	747.8	Q25.8	09.27.00	Arterial duct (ductus arteriosus) abnormality,
Arterial ligament from left subclavian artery,	to 483	09.27.92	747.8	Q25.8	09.27.00	Arterial duct (ductus arteriosus) abnormality,
Arterial ligament from aortic diverticulum,	to 483	09.27.93	747.8	Q25.8	09.27.00	Arterial duct (ductus arteriosus) abnormality,
Arterial ligament from retroesophageal aortic diverticulum,	to 483	09.27.94	747.8	Q25.8	09.27.00	Arterial duct (ductus arteriosus) abnormality,
Arterial ligament from right carotid artery,	to 483	09.27.95	747.8	Q25.8	09.27.00	Arterial duct (ductus arteriosus) abnormality,
Arterial ligament from left carotid artery,	to 483	09.27.96	747.8	Q25.8	09.27.00	Arterial duct (ductus arteriosus) abnormality,
Anomalous origin of arterial ligament: site unknown,	to 483	09.27.97	747.8	Q25.8	09.27.00	Arterial duct (ductus arteriosus) abnormality,
no entry	to 483	not relevant				

Insertion site of arterial ligament

Arterial ligament insertion anomalous,	to 1	09.27.71	747.8	Q25.8	09.27.00	Arterial duct (ductus arteriosus) abnormality,
Arterial ligament insertion to proximal left pulmonary artery (usual),	to 1	09.27.72			not relevant	
Arterial ligament insertion to distal left pulmonary artery,	to 1	09.27.73	747.8	Q25.8	09.27.00	Arterial duct (ductus arteriosus) abnormality,
Arterial ligament insertion to pulmonary trunk,	to 1	09.27.74	747.8	Q25.8	09.27.00	Arterial duct (ductus arteriosus) abnormality,
Arterial ligament insertion to right pulmonary artery,	to 1	09.27.75	747.8	Q25.8	09.27.00	Arterial duct (ductus arteriosus) abnormality,
no entry	to 1	not relevant				

End of branch

Generic systemic and distal systemic arterial abnormalities (including MAPCAs)

Arteriovenous fistula(s)	to 487	not relevant				
Systemic-to-pulmonary collateral arteries (MAPCA(s))	to 489	not relevant				
Distal systemic arterial abnormality,	to 493	09.20.20	747.9	Q27.8	09.20.20	Distal systemic arterial abnormality,
Congenital abnormality of peripheral vascular system,	to 1	09.20.40	747.9	Q27.8	09.20.20	Distal systemic arterial abnormality,
Bronchopulmonary collateral arteries,	to 493	09.20.26	747.9	Q27.8	09.20.20	Distal systemic arterial abnormality,
Aneurysm(s) of distal systemic artery(ies),	to 1	09.20.23	747.6	Q27.8	09.20.20	Distal systemic arterial abnormality,
Aneurysm(s) of distal systemic artery(ies): congenital,	to 1	09.20.33	747.6	Q27.8	09.20.20	Distal systemic arterial abnormality,
Umbilical arterial abnormalities	to 495	not relevant				
Tortuosity of systemic arteries,	to 960	09.20.27	747.6	Q27.8	09.20.20	Distal systemic arterial abnormality,
Systemic to coronary collateral artery(ies),	to 467	09.20.30	747.6	Q27.8	09.20.20	Distal systemic arterial abnormality,
Systemic arterial abnormality,	to 493	09.20.24	747.6	Q27.8	09.20.20	Distal systemic arterial abnormality,
Systemic arterial abnormality: congenital,	to 493	09.20.28	747.6	Q27.8	09.20.20	Distal systemic arterial abnormality,

Arteriovenous fistula(s)

Arteriovenous fistula (malformation),	to 1	09.19.01	747.6	Q27.3	09.19.01	Arteriovenous fistula (malformation),
Pulmonary arteriovenous fistula (malformation),	to 3300	09.19.05	747.3	Q25.7	09.19.05	Pulmonary arteriovenous fistula (malformation),
Cerebral arteriovenous fistula (malformation) to great vein of Galen,	to 1	09.19.07	747.8	Q28.2	09.19.01	Arteriovenous fistula (malformation),
Cerebral arteriovenous fistula (malformation),	to 1	09.19.02	747.8	Q28.2	09.19.01	Arteriovenous fistula (malformation),
Intrahepatic arteriovenous fistula (malformation),	to 1	09.19.03	747.8	Q26.6	09.19.01	Arteriovenous fistula (malformation),
Peripheral arteriovenous fistula (malformation),	to 1	09.19.04	747.8	Q27.3	09.19.01	Arteriovenous fistula (malformation),
Arteriovenous fistula related abnormality,	to 1	09.19.06	747.6	Q27.8	09.20.20	Distal systemic arterial abnormality,

Systemic-to-pulmonary collateral arteries - MAPCAs

Number of systemic-to-pulmonary collateral arteries (MAPCAs)	to 490	not relevant				
Origin and connections of systemic-to-pulmonary collateral arteries (MAPCAs)	to 491	not relevant				
Major systemic-to-pulmonary collateral artery(ies) (MAPCA(s)),	to 1	09.08.01	747.9	Q27.8	09.08.01	Major systemic-to-pulmonary collateral artery(ies) (MAPCA(s)),
Systemic-to-pulmonary collateral artery(ies),	to 1	09.08.18	747.9		09.20.20	Distal systemic arterial abnormality,
Minor systemic-to-pulmonary collateral artery(ies),	to 490	09.08.19	747.9	Q27.8	09.20.20	Distal systemic arterial abnormality,
Major systemic-to-pulmonary collateral artery(ies) (MAPCA(s)) not apparent,	to 1	09.08.00				not relevant
Major systemic-to-pulmonary collateral artery(ies) (MAPCA(s)) with absent native pulmonary arteries proximal to hilar bifurcation,	to 1	09.08.08	747.9	Q27.8	09.08.01	Major systemic-to-pulmonary collateral artery(ies) (MAPCA(s)),
Major systemic-to-pulmonary collateral artery(ies) (MAPCA(s)) with native pulmonary artery(ies) proximal to hilar bifurcation present,	to 1	09.08.09	747.9	Q27.8	09.08.01	Major systemic-to-pulmonary collateral artery(ies) (MAPCA(s)),
Major systemic-to-pulmonary collateral artery(ies) (MAPCA(s)) to both lungs,	to 3300	09.08.02	747.9	Q27.8	09.08.01	Major systemic-to-pulmonary collateral artery(ies) (MAPCA(s)),
Major systemic-to-pulmonary collateral artery(ies) (MAPCA(s)) to entire right lung,	to 3300	09.08.03	747.9	Q27.8	09.08.01	Major systemic-to-pulmonary collateral artery(ies) (MAPCA(s)),
Major systemic-to-pulmonary collateral artery(ies) (MAPCA(s)) to part of right lung,	to 3300	09.08.06	747.9	Q27.8	09.08.01	Major systemic-to-pulmonary collateral artery(ies) (MAPCA(s)),
Major systemic-to-pulmonary collateral artery(ies) (MAPCA(s)) to entire left lung,	to 3300	09.08.04	747.9	Q27.8	09.08.01	Major systemic-to-pulmonary collateral artery(ies) (MAPCA(s)),
Major systemic-to-pulmonary collateral artery(ies) (MAPCA(s)) to part of left lung,	to 3300	09.08.07	747.9	Q27.8	09.08.01	Major systemic-to-pulmonary collateral artery(ies) (MAPCA(s)),
Major systemic-to-pulmonary collateral artery(ies) (MAPCA(s)) with unknown zone of distribution,	to 1	09.08.10	747.9	Q27.8	09.08.01	Major systemic-to-pulmonary collateral artery(ies) (MAPCA(s)),
Major systemic-to-pulmonary collateral artery(ies) (MAPCA(s)) related abnormally,	to 1	09.08.05	747.6	Q27.8	09.20.20	Distal systemic arterial abnormality,
Systemic-to-pulmonary collateral artery(ies) (MAPCA(s)) stenosis(es),	to 3300	09.20.25	747.9	Q27.8	09.20.25	Systemic-to-pulmonary collateral artery(ies) (MAPCA(s)) stenosis(es),

Number of systemic-to-pulmonary collateral arteries - MAPCAs

One major systemic-to-pulmonary collateral artery (MAPCA),	to 491	09.08.11	747.9	Q27.8	09.08.01	Major systemic-to-pulmonary collateral artery(ies) (MAPCA(s)),
Two major systemic-to-pulmonary collateral arteries (MAPCAs),	to 491	09.08.12	747.9	Q27.8	09.08.01	Major systemic-to-pulmonary collateral artery(ies) (MAPCA(s)),
Three major systemic-to-pulmonary collateral arteries (MAPCAs),	to 491	09.08.13	747.9	Q27.8	09.08.01	Major systemic-to-pulmonary collateral artery(ies) (MAPCA(s)),
Four major systemic-to-pulmonary collateral arteries (MAPCAs),	to 491	09.08.14	747.9	Q27.8	09.08.01	Major systemic-to-pulmonary collateral artery(ies) (MAPCA(s)),
Five major systemic-to-pulmonary collateral arteries (MAPCAs),	to 491	09.08.15	747.9	Q27.8	09.08.01	Major systemic-to-pulmonary collateral artery(ies) (MAPCA(s)),
Six or more major systemic-to-pulmonary collateral arteries (MAPCAs),	to 491	09.08.16	747.9	Q27.8	09.08.01	Major systemic-to-pulmonary collateral artery(ies) (MAPCA(s)),
Multiple minor systemic-to-pulmonary collateral arteries,	to 491	09.08.17	747.9	Q27.8	09.08.01	Major systemic-to-pulmonary collateral artery(ies) (MAPCA(s)),

Origin and connections of systemic-to-pulmonary collateral arteries - MAPCAs

Systemic-to-pulmonary collateral(s) (MAPCA(s)) from descending thoracic aorta,	to 493	09.08.21	747.9	Q27.8	09.08.01	Major systemic-to-pulmonary collateral artery(ies) (MAPCA(s)),
Systemic-to-pulmonary collateral (MAPCA) from left innominate artery or branches,	to 493	09.08.22	747.9	Q27.8	09.08.01	Major systemic-to-pulmonary collateral artery(ies) (MAPCA(s)),
Systemic-to-pulmonary collateral (MAPCA) from right innominate artery or branches,	to 493	09.08.23	747.9	Q27.8	09.08.01	Major systemic-to-pulmonary collateral artery(ies) (MAPCA(s)),
Systemic-to-pulmonary collateral (MAPCA) from coronary artery,	to 467	09.08.24	747.9	Q27.8	09.08.01	Major systemic-to-pulmonary collateral artery(ies) (MAPCA(s)),
Systemic-to-pulmonary collateral (MAPCA) from abdominal aorta,	to 467	09.08.26	747.9	Q27.8	09.08.01	Major systemic-to-pulmonary collateral artery(ies) (MAPCA(s)),
Systemic-to-pulmonary collateral (MAPCA) from right carotid artery,	to 467	09.08.27	747.9	Q27.8	09.08.01	Major systemic-to-pulmonary collateral artery(ies) (MAPCA(s)),
Systemic-to-pulmonary collateral (MAPCA) from left carotid artery,	to 467	09.08.28	747.9	Q27.8	09.08.01	Major systemic-to-pulmonary collateral artery(ies) (MAPCA(s)),
Systemic-to-pulmonary collateral (MAPCA) from left renal artery,	to 467	09.08.29	747.9	Q27.8	09.08.01	Major systemic-to-pulmonary collateral artery(ies) (MAPCA(s)),
Systemic-to-pulmonary collateral (MAPCA) from left renal artery,	to 467	09.08.30	747.9	Q27.8	09.08.01	Major systemic-to-pulmonary collateral artery(ies) (MAPCA(s)),
Systemic-to-pulmonary collateral(s) (MAPCA(s)) from artery,	to 3230	09.08.25	747.9	Q27.8	09.08.01	Major systemic-to-pulmonary collateral artery(ies) (MAPCA(s)),
Systemic-to-pulmonary collateral (MAPCA) connecting with central pulmonary arteries,	to 493	09.08.31	747.9	Q27.8	09.08.01	Major systemic-to-pulmonary collateral artery(ies) (MAPCA(s)),
Systemic-to-pulmonary collateral (MAPCA) connecting with isolated intraparenchymal pulmonary arteries,	to 493	09.08.32	747.9	Q27.8	09.08.01	Major systemic-to-pulmonary collateral artery(ies) (MAPCA(s)),
Systemic-to-pulmonary collateral (MAPCA) connecting with bronchial-tracheal arteries,	to 493	09.08.34	747.9	Q27.8	09.08.01	Major systemic-to-pulmonary collateral artery(ies) (MAPCA(s)),
Systemic-to-pulmonary collateral (MAPCA) connecting with artery,	to 3230	09.08.33	747.9	Q27.8	09.08.01	Major systemic-to-pulmonary collateral artery(ies) (MAPCA(s)),
Systemic-to-pulmonary collateral (MAPCA) contributing to dual lung supply,	to 3300	09.08.35	747.9	Q27.8	09.08.01	Major systemic-to-pulmonary collateral artery(ies) (MAPCA(s)),

Systemic artery characteristics - qualifiers

- small artery,	to 3230	Q1.08.51				not relevant
- medium artery,	to 3230	Q1.08.52				not relevant
- large artery,	to 3230	Q1.08.53				not relevant
- tortuous artery,	to 3230	Q1.08.54				not relevant
- stenotic artery,	to 3230	Q1.08.58				not relevant
- aneurysmal artery,	to 3230	Q1.08.59				not relevant
- stenotic artery: short segment,	to 3230	Q1.08.55				not relevant
- stenotic artery: long segment,	to 3230	Q1.08.56				not relevant
- unobstructed artery,	to 3230	Q1.08.57				not relevant
- obstructed artery,	to 3230	Q1.08.60				not relevant
- dilated artery,	to 3230	Q1.08.61				not relevant
- hypertensive artery,	to 3230	Q1.08.62				not relevant
- normotensive artery,	to 3230	Q1.08.63				not relevant
- hypotensive artery,	to 3230	Q1.08.64				not relevant
- nature of artery (DESCRIBE),	to 1	Q1.08.69				not relevant
no entry	to 1	not relevant				

Umbilical arterial abnormalities

Umbilical arterial abnormality,	to 1	09.50.00	747.5	Q27.0	09.20.20	Distal systemic arterial abnormality,
Umbilical arterial abnormality: congenital,	to 1	09.50.03	747.5	Q27.0	09.20.20	Distal systemic arterial abnormality,
Single umbilical artery,	to 1	09.50.01	747.5	Q27.0	09.20.20	Distal systemic arterial abnormality,
Umbilical arterial hypoplasia,	to 1	09.50.02	747.5	Q27.0	09.20.20	Distal systemic arterial abnormality,

End of branch

Congenital anomalies of pericardium

Pericardial abnormality,	to 1	10.01.00	746.8	Q24.8	10.01.00	Pericardial abnormality,
Pericardial congenital abnormality,	to 1	10.01.05	746.8	Q24.8	10.01.00	Pericardial abnormality,
Absence of pericardium,	to 1	10.01.17	746.8	Q24.8	10.01.00	Pericardial abnormality,
Partial agenesis of pericardium,	to 498	10.01.01	746.8	Q24.8	10.01.00	Pericardial abnormality,
Partial agenesis of pericardium - right-sided,	to 498	10.01.08	746.8	Q24.8	10.01.00	Pericardial abnormality,
Partial agenesis of pericardium - left-sided,	to 498	10.01.09	746.8	Q24.8	10.01.00	Pericardial abnormality,
Total absence of pericardium,	to 1	10.01.02	746.8	Q24.8	10.01.00	Pericardial abnormality,
Pericardial defect or deficiency: congenital,	to 1	10.01.16	746.8	Q24.8	10.01.00	Pericardial abnormality,
Pericardial cyst,	to 1	10.01.12	746.8	Q24.8	10.01.00	Pericardial abnormality,
Pericardial cyst: right periphrenic,	to 1	10.01.13	746.8	Q24.8	10.01.00	Pericardial abnormality,
Pericardial cyst: left periphrenic,	to 1	10.01.14	746.8	Q24.8	10.01.00	Pericardial abnormality,
Pleuropericardial cyst,	to 1	10.01.03	746.8	Q24.8	10.01.00	Pericardial abnormality,
Pleuropericardial cyst: right periphrenic,	to 1	10.01.06	746.8	Q24.8	10.01.00	Pericardial abnormality,
Pleuropericardial cyst: left periphrenic,	to 1	10.01.07	746.8	Q24.8	10.01.00	Pericardial abnormality,
Mediastinal intrapericardial cyst: congenital,	to 1	10.01.10	746.8	Q24.8	10.01.00	Pericardial abnormality,
Mediastinal extrapericardial cyst: congenital,	to 1	10.01.11	746.8	Q24.8	10.01.00	Pericardial abnormality,
Pericardial diverticulum,	to 1	10.01.04	746.8	Q24.8	10.01.00	Pericardial abnormality,
Pericardial effusion: congenital,	to 708	10.01.15	423.9	31.3	10.08.31	Pericardial effusion,

Partial agenesis of pericardium qualifiers

- with cardiac herniation,	to 1	Q1.08.81				not relevant
- without cardiac herniation,	to 1	Q1.08.82				not relevant
- with cardiac strangulation,	to 1	Q1.08.83				not relevant
- without cardiac strangulation,	to 1	Q1.08.84				not relevant
no entry	to 1	not relevant				

END OF SECTION

500 Hereditary, fetal, neonatal & noncardiac abnormalities associated with heart disease

Maternal related codes	to 503	not relevant				
Fetal related codes	to 506	not relevant				
Neonatal status, abnormalities and diseases	to 530	not relevant				
Major chromosomal anomalies with cardiac involvement	to 535	not relevant				
Hereditary metabolic disorders with cardiac involvement	to 542	not relevant				
Hereditary neuromuscular disorders with cardiac involvement	to 545	not relevant				
Hereditary disorders of connective tissue with cardiac involvement	to 550	not relevant				
Other autosomal syndromes-associations with primary cardiac involvement	to 555	not relevant				
Hereditary general vascular abnormalities	to 577	not relevant				
Dyslipidaemias	to 579	not relevant				
Other noncardiac abnormalities or diseases associated with heart disease	to 581	not relevant				
Hereditary-noncardiac abnormality not apparent,	to 1	10.23.00			10.23.00	Hereditary-noncardiac abnormality not apparent,
Multiple congenital malformations,	to 1	14.06.01	759.7	Q89.7	14.06.01	Multiple congenital malformations,
Family history of congenital heart lesion,	to 501	10.23.01	V19.5	282.7	10.23.01	Family history of congenital heart lesion,
Family history of disorder with cardiac involvement,	to 501	10.23.03	V19.5	282.7	10.23.03	Family history of disorder with cardiac involvement,
Hereditary disorder associated with heart disease,	to 501	10.23.04	759.7	Q87.8	10.23.04	Hereditary disorder associated with heart disease,
Family history of cardiomyopathy,	to 501	10.23.05	V17.4	282.4	10.23.03	Family history of disorder with cardiac involvement,
Family history of ischemic heart disease,	to 501	10.23.06	V17.3	282.4	10.23.03	Family history of disorder with cardiac involvement,
Family history of sudden cardiac related death,	to 501	10.23.10	V17.4	282.4	10.23.11	Family history of sudden death,
Family history of sudden death,	to 501	10.23.11	V19.8	284.8	10.23.11	Family history of sudden death,
Cousanguineous parents,	to 1	10.23.07	V19.7	284.3	not relevant	
Organ donor,	to 1	10.23.12	V59.9	252.9	not relevant	

Family history of disease - qualifiers

- maternal side,	to 1	Q1.50.01				not relevant
- paternal side,	to 1	Q1.50.02				not relevant
- in mother,	to 1	Q1.50.04				not relevant

- in father,	to 1	Q1.50.05			not relevant
- in sibling,	to 1	Q1.50.03			not relevant
- in co-sibling,	to 1	Q1.50.06			not relevant
- in more than 1 sibling,	to 1	Q1.50.07			not relevant
- in first cousin,	to 1	Q1.50.08			not relevant
- distant family history,	to 1	Q1.50.09			not relevant
no entry	to 1	not relevant			

End of branch

503 Maternal related codes

Maternal teratogen or disease potentially associated with congenital heart disease	to 504	not relevant			
Advanced maternal age,	to 1	10.23.08			not relevant
Advanced maternal age: over 35 years,	to 1	10.23.09			not relevant
Polyhydramnios,	to 1	14.10.05	761.3	O40	not relevant
Oligohydramnios,	to 1	14.10.10	658	O41.0	not relevant

504 Maternal teratogen or disease potentially associated with congenital heart disease

Maternal teratogen or disease potentially associated with congenital heart disease,	to 1	14.05.00	760.7	Q86.8	14.05.00	Maternal teratogen or disease potentially associated with congenital heart disease,	
Maternal teratogen potentially associated with congenital heart disease,	to 1	14.05.01	760.7	Q86.8	14.05.01	Maternal teratogen potentially associated with congenital heart disease,	
Maternal infection potentially associated with congenital heart disease,	to 627	14.05.10	655.3	P37.9	14.05.01	Maternal teratogen potentially associated with congenital heart disease,	
Maternal hereditary disorder associated with congenital heart disease,	to 1	14.15.20	760.8	O99.8	14.05.00	Maternal teratogen or disease potentially associated with congenital heart disease,	
Maternal drug ingestion with potentially associated congenital heart abnormality,	to 985	14.05.11	655.5	O35.5	14.05.01	Maternal teratogen potentially associated with congenital heart disease,	
Maternal lithium ingestion,	to 1	14.05.07	655.5	O35.5	14.05.01	Maternal teratogen potentially associated with congenital heart disease,	
Maternal disease potentially associated with congenital heart disease,	to 1	14.05.20	760.7	Q86.8	14.05.00	Maternal teratogen or disease potentially associated with congenital heart disease,	
Maternal diabetes mellitus,	to 1	14.05.08	648.0	O24.9	14.05.00	Maternal teratogen or disease potentially associated with congenital heart disease,	
Maternal diabetes mellitus: insulin dependent,	to 1	14.05.16	648.0	O24.0	14.05.00	Maternal teratogen or disease potentially associated with congenital heart disease,	
Maternal diabetes mellitus: non-insulin dependent (Type II),	to 1	14.05.17	648.0	O24.1	14.05.00	Maternal teratogen or disease potentially associated with congenital heart disease,	
Maternal diabetes mellitus: gestational,	to 1	14.05.18	648.0	O24.4	14.05.00	Maternal teratogen or disease potentially associated with congenital heart disease,	
Maternal phenylketonuria,	to 1	14.05.09	655.4	O99.2	14.05.00	Maternal teratogen or disease potentially associated with congenital heart disease,	
Maternal systemic lupus erythematosus (SLE),	to 1	10.23.02	655.4	710.0 O99.8	M32.9	10.23.02	Maternal SLE,
Maternal anti Ro or La antibodies,	to 1	14.05.14	655.4	O99.8	O99.8	10.23.02	Maternal SLE,
Maternal connective tissue (collagen vascular) disease,	to 1	14.05.15	655.4	710.9 O99.8	M35.9	10.23.02	Maternal SLE,
Maternal exposure to radiation,	to 1	14.05.19	655.6	Q86.8	W91	14.05.00	Maternal teratogen or disease potentially associated with congenital heart disease,
Maternally derived fetal disease or syndrome associated with heart disease	to 509	not relevant					

End of branch

506 Fetal related codes

Pregnancy status	to 507	not relevant			
General fetal status, abnormalities and findings	to 508	not relevant			
Maternally derived fetal disease or syndrome associated with heart disease	to 509	not relevant			
Fetal screening and cardiac imaging	to 510	not relevant			
Normal fetal cardiovascular findings	to 511	not relevant			
Fetal cardiovascular abnormalities	to 512	not relevant			
Umbilical arterial abnormalities	to 495	not relevant			
Fetal outcome	to 520	not relevant			
Fetal interventions	to 1530	not relevant			
Gestational age qualifiers	to 990	not relevant			
Fetal diagnosis,	to 1	14.11.50			not relevant

507 Pregnancy status

Singleton pregnancy,	to 1	14.10.77			not relevant
Twin pregnancy,	to 1	14.10.31	651.0	O30.0	not relevant
Dichorionic diamniotic twin pregnancy,	to 1	14.10.71	651.0	O30.0	not relevant
Monochorionic twin pregnancy,	to 1	14.10.39	651.0	O30.0	not relevant
Monochorionic twin pregnancy: diamniotic,	to 1	14.10.63	651.0	O30.0	not relevant
Monochorionic twin pregnancy: diamniotic with similar fluid volumes,	to 1	14.10.75	651.0	O30.0	not relevant
Monochorionic twin pregnancy: diamniotic with dissimilar fluid volumes,	to 1	14.10.76	651.0	O30.0	not relevant
Monochorionic twin pregnancy: monoamniotic,	to 1	14.10.64	651.0	O30.0	not relevant
Conjoined twin pregnancy,	to 1	14.10.40	759.4	O89.4	14.06.01
Triplet pregnancy,	to 1	14.10.32	651.1	O30.1	not relevant
Multiple pregnancy,	to 1	14.10.33	651.9	O30.9	not relevant
Multiple pregnancy: more than three fetuses,	to 1	14.10.78	651.9	O30.9	not relevant
Pregnancy through in vitro fertilisation (IVF),	to 1	14.10.30			not relevant

508 General fetal status, abnormalities and findings

Normal fetal status,	to 1	14.10.70			not relevant	
Fetal abnormality,	to 990	14.10.01	655.9	O35.9	14.10.01	Fetal abnormality,
Intrauterine growth restriction (retardation),	to 527	14.10.34	764.9	P05.9	14.10.34	Intrauterine growth restriction (retardation),
Fetal chromosomal abnormality,	to 535	14.10.68	655.1	O35.1	14.10.01	Fetal abnormality,
Fetal fluid retention,	to 990	14.12.20	778.5	P83.3	14.12.20	Fetal fluid retention,
Fetal fluid retention: 1 compartment,	to 990	14.12.21	778.5	P83.3	14.12.20	Fetal fluid retention,
Fetal fluid retention: 2 compartments,	to 990	14.12.22	778.5	P83.3	14.12.20	Fetal fluid retention,
Fetal skin oedema,	to 990	14.12.23	778.5	P83.3	14.12.20	Fetal fluid retention,
Fetal pleural effusion,	to 990	14.12.24	778.5	P83.3	14.12.20	Fetal fluid retention,
Fetal ascites,	to 990	14.12.25	778.5	P83.3	14.12.20	Fetal fluid retention,
Fetal hydrops,	to 990	14.10.02	778.0	P83.2	14.10.02	Fetal hydrops,
Non-immune fetal hydrops,	to 990	14.10.03	778.0	P83.2	14.10.02	Fetal hydrops,
Immune fetal hydrops,	to 990	14.10.04	773.3	P56.0	14.10.02	Fetal hydrops,
Fetal hydrops not present,	to 990	14.12.26			not relevant	
Twin-to-twin transfusion syndrome,	to 990	14.10.11	762.3	P02.3	14.10.11	Twin-to-twin transfusion syndrome,
Twin reversed arterial perfusion (TRAP) sequence,	to 990	14.10.67	762.3	P02.3	14.10.01	Fetal abnormality,
Increased nuchal thickness,	to 990	14.10.12	655.9	O28.3	14.10.12	Increased nuchal thickness,
Nuchal thickness under 3.0mm,	to 990	14.10.61	655.9	O28.3	not relevant	
Increased nuchal thickness: 3-6mm,	to 990	14.10.13	655.9	O28.3	14.10.12	Increased nuchal thickness,
Increased nuchal thickness: over 6mm,	to 990	14.10.14	655.9	O28.3	14.10.12	Increased nuchal thickness,
Fetal hyperechogenic bowel,	to 990	14.10.15	655.9	O28.3	14.10.01	Fetal abnormality,
Fetal choroid plexus cysts,	to 990	14.10.16	655.9	O28.3	14.10.01	Fetal abnormality,
Fetal anaemia,	to 990	14.10.17	776.5	P61.4	14.10.01	Fetal abnormality,
Fetal mediastinal shift to right,	to 990	14.10.49	655.9	O28.3	14.10.01	Fetal abnormality,
Fetal mediastinal shift to left,	to 990	14.10.50	655.9	O28.3	14.10.01	Fetal abnormality,
Fetal heart rate monitoring (CTG) abnormally,	to 990	14.10.62			not relevant	

509 Maternally derived fetal disease or syndrome associated with heart disease

Maternally derived fetal disease or syndrome associated with heart disease,	to 1	14.05.40	655.4	P96.9	14.05.40	Maternally derived fetal disease or syndrome associated with heart disease,
Fetal infection,	to 627	14.05.41	771.8	P39.9	14.05.41	Fetal infection,
Fetal rubella syndrome,	to 1	14.02.32	771.0	P35.0	14.02.32	Fetal rubella syndrome,
Fetal cytomegalovirus syndrome,	to 1	14.05.02	771.2	P35.1	14.05.40	Maternally derived fetal disease or syndrome associated with heart disease,
Fetal toxoplasmosis syndrome,	to 1	14.05.03	771.2	P37.1	14.05.40	Maternally derived fetal disease or syndrome associated with heart disease,
Fetal parvovirus infection,	to 1	14.05.12	771.2	P37.8	14.05.40	Maternally derived fetal disease or syndrome associated with heart disease,
Fetal varicella infection,	to 1	14.05.13	771.2	P37.8	14.05.40	Maternally derived fetal disease or syndrome associated with heart disease,
Fetal alcohol syndrome,	to 1	14.02.09	655.4	Q86.0	14.05.40	Maternally derived fetal disease or syndrome associated with heart disease,
Fetal hydantoin syndrome,	to 1	14.05.04	655.5	Q86.1	14.05.40	Maternally derived fetal disease or syndrome associated with heart disease,
Fetal trimethadione syndrome,	to 1	14.05.05	655.5	Q86.8	14.05.40	Maternally derived fetal disease or syndrome associated with heart disease,
Fetal warfarin syndrome,	to 1	14.05.06	655.5	Q86.2	14.05.40	Maternally derived fetal disease or syndrome associated with heart disease,

510 Fetal screening and cardiac imaging

Fetal echocardiographic examination,	to 990	13.01.01			13.01.01	Fetal echocardiographic examination,
Transabdominal fetal echocardiographic examination,	to 990	13.01.25			13.01.25	Transabdominal fetal echocardiographic examination,
Transvaginal fetal echocardiographic examination,	to 990	13.01.26			13.01.26	Transvaginal fetal echocardiographic examination,
Antenatal screening,	to 990	14.10.20	V28.9	Z36.9	not relevant	
Fetal echocardiographic screening,	to 990	13.01.54	V28.3	Z36.3	13.01.01	Fetal echocardiographic examination,
Fetal echocardiographic screening: family history of congenital heart disease,	to 501	13.01.70	V28.3	Z36.3	13.01.01	Fetal echocardiographic examination,
Fetal echocardiographic screening: maternal disease,	to 503	13.01.72	V28.3	Z36.3	13.01.01	Fetal echocardiographic examination,
Fetal echocardiographic screening: maternal drug ingestion,	to 985	13.01.73	V28.3	Z36.3	13.01.01	Fetal echocardiographic examination,
Fetal echocardiographic screening: maternal infection,	to 503	13.01.74	V28.3	Z36.3	13.01.01	Fetal echocardiographic examination,
Fetal echocardiographic screening: increased nuchal thickness,	to 508	13.01.75	V28.3	Z36.3	13.01.01	Fetal echocardiographic examination,
Fetal echocardiographic screening: multiple pregnancy,	to 507	13.01.76	V28.3	Z36.3	13.01.01	Fetal echocardiographic examination,
Fetal echocardiographic screening: fetal chromosomal abnormality,	to 535	13.01.77	V28.3	Z36.3	13.01.01	Fetal echocardiographic examination,
Fetal echocardiographic screening: fetal extracardiac congenital anomaly,	to 581	13.01.78	V28.3	Z36.3	13.01.01	Fetal echocardiographic examination,
Fetal echocardiographic screening: suspected fetal heart abnormality,	to 512	13.01.79	V28.3	Z36.3	13.01.01	Fetal echocardiographic examination,
Fetal echocardiographic screening: suspected fetal arrhythmia,	to 800	13.01.80	V28.3	Z36.3	13.01.01	Fetal echocardiographic examination,
Fetal echocardiographic screening: inadequate fetal cardiac images,	to 990	13.01.81	V28.3	Z36.3	13.01.01	Fetal echocardiographic examination,
Fetal echocardiographic screening: fetal echogenic foci(es),	to 523	13.01.82	V28.3	Z36.3	13.01.01	Fetal echocardiographic examination,
Satisfactory fetal cardiac images,	to 990	13.01.89			13.01.89	Satisfactory fetal cardiac images,
Inadequate fetal cardiac images,	to 990	13.01.90			13.01.90	Inadequate fetal cardiac images,
Inadequate fetal cardiac images due to adverse fetal lie,	to 990	13.01.91			13.01.90	Inadequate fetal cardiac images,
Inadequate fetal cardiac images due to high maternal body mass index,	to 990	13.01.92			13.01.90	Inadequate fetal cardiac images,
Inadequate fetal cardiac images due to oligohydramnios,	to 990	13.01.93			13.01.90	Inadequate fetal cardiac images,
Antenatal screening for chromosome anomaly,	to 990	14.10.21	V28.8	Z36.0	not relevant	
Antenatal nuchal screening,	to 990	14.10.22	V28.3	Z36.3	not relevant	
Fetal karyocardiogram,	to 990	14.10.24	V28.3	Z36.3	not relevant	
Fetal magnetic resonance imaging,	to 990	13.00.29			13.00.24	Cardiovascular Magnetic Resonance Imaging (CMRI),

	Fetal cardiovascular magnetic resonance imaging, Gestational age qualifiers	to 990 to 990	13.00.26 not relevant			13.00.24	Cardiovascular Magnetic Resonance Imaging (CMRI),		
511	Normal fetal cardiovascular findings								
	Fetal echocardiographic study: no abnormality detected,	to 990	14.12.00			14.10.00	Fetal cardiac abnormality not detected,		
	Fetal cardiac abnormality not detected,	to 990	14.10.00			14.10.00	Fetal cardiac abnormality not detected,		
	Fetal normal four chamber view,	to 990	14.12.01			14.10.00	Fetal cardiac abnormality not detected,		
	Fetal normal great arterial views,	to 990	14.12.02			not relevant	not relevant		
	Fetal normal three vessel view,	to 990	14.12.03			not relevant	not relevant		
	Fetal right to left oval foramen flow (normal),	to 990	14.12.04			not relevant	not relevant		
	Fetal long axis of heart normal (apex at 45°),	to 990	14.12.05			not relevant	not relevant		
	Fetal cardiac size normal: cardiothoracic ratio 0.20-0.35,	to 990	14.12.06			not relevant	not relevant		
	Fetal normal biventricular function,	to 990	14.12.07			not relevant	not relevant		
	Fetal arterial blood flows	to 517	not relevant						
	Fetal venous blood flows	to 518	not relevant						
512	Fetal cardiovascular abnormalities								
	Fetal oval foramen and arterial duct abnormalities	to 513	not relevant						
	Fetal heart muscle abnormalities and cardiomyopathy	to 514	not relevant						
	Fetal cardiac valvar abnormalities	to 515	not relevant						
	Fetal cardiomegaly and heart failure	to 516	not relevant						
	Fetal arterial blood flows	to 517	not relevant						
	Fetal venous blood flows	to 518	not relevant						
	Fetal Cardiovascular Profile Scores (Huhta)	to 519	not relevant						
	Fetal echocardiographic abnormality,	to 990	14.10.25	655.9		Q28.3	14.10.25	Fetal echocardiographic abnormality,	
	Fetal structural heart abnormality,	to 5	14.10.60	655.9		Q28.3	14.10.60	Fetal structural heart abnormality,	
	Fetal abnormal 4 chamber view,	to 990	14.10.52	655.9		Q28.3	14.10.52	Fetal abnormal 4 chamber view,	
	Fetal abnormal great arterial view,	to 990	14.10.53	655.9		Q28.3	14.10.53	Fetal abnormal great arterial view,	
	Fetal abnormal three vessel view,	to 990	14.10.92	655.9		Q28.3	14.10.25	Fetal echocardiographic abnormality,	
	Fetal long axis of heart deviated to right,	to 990	14.10.93	655.9		Q28.3	14.10.25	Fetal echocardiographic abnormality,	
	Fetal long axis of heart deviated to left,	to 990	14.10.94	655.9		Q28.3	14.10.25	Fetal echocardiographic abnormality,	
	Fetal cardiac ventricular function abnormal,	to 990	14.11.03	655.9		Q28.3	14.10.25	Fetal echocardiographic abnormality,	
	Fetal arrhythmia,	to 800	14.10.06	768.2		Q35.8	14.10.06	Fetal arrhythmia,	
	Fetal supraventricular tachycardia (SVT) with short ventriculoatrial (RP) interval,	to 886	11.01.05	427.0		H7.1	11.01.00	Supraventricular tachycardia (SVT),	
	Fetal supraventricular tachycardia (SVT) with long ventriculoatrial (RP) interval,	to 886	11.01.06	427.0		H7.1	11.01.00	Supraventricular tachycardia (SVT),	
	Fetal unexplained right heart dominance,	to 990	14.10.07	655.9		Q28.3	14.10.07	Fetal unexplained right heart dominance,	
	Fetal unexplained left heart dominance,	to 990	14.10.45	655.9		Q28.3	14.10.45	Fetal unexplained left heart dominance,	
	Fetal unexplained right atrial dilation,	to 990	14.10.48	655.9		Q28.3	14.10.25	Fetal echocardiographic abnormality,	
	Fetal echogenic focus,	to 523	14.10.08	655.9		Q28.3	14.10.08	Fetal echogenic focus (golf ball),	
	Fetal failure of right ventricular growth,	to 990	14.10.90	655.9		Q28.3	14.10.90	Fetal failure of right ventricular growth,	
	Fetal progression of right ventricular outflow tract obstruction,	to 990	14.10.27	655.9		Q28.3	14.10.27	Fetal progression of right ventricular outflow tract obstruction,	
	Fetal failure of left ventricular growth,	to 990	14.10.91	655.9		Q28.3	14.10.91	Fetal failure of left ventricular growth,	
	Fetal progression of left ventricular outflow tract obstruction,	to 990	14.10.28	655.9		Q28.3	14.10.28	Fetal progression of left ventricular outflow tract obstruction,	
	Fetal pulmonary outflow obstruction due to twin-to-twin transfusion,	to 990	14.10.43	655.9		Q28.3	14.10.25	Fetal echocardiographic abnormality,	
	Fetal acardia,	to 990	14.10.23	759.8		Q89.8	01.01.39	Cardiac abnormality,	
	Fetal pseudo-acardia (non-functional recipient heart in TRAP),	to 990	14.10.46	759.8		Q89.8	01.01.39	Cardiac abnormality,	
	Fetal heart tumour: single,	to 720	10.03.40	239.8		D48.7	10.03.01	Heart tumour,	
	Fetal heart tumour: multiple,	to 720	10.03.41	239.8		D48.7	10.03.01	Heart tumour,	
	Fetal pericardial effusion,	to 707	14.10.55	655.9		Q28.3	10.08.31	Pericardial effusion,	
	Gestational age qualifiers	to 990	not relevant						
513	Fetal oval foramen and arterial duct abnormalities								
	Fetal bidirectional oval foramen flow,	to 990	14.10.65	655.9		Q28.3	14.10.25	Fetal echocardiographic abnormality,	
	Fetal left to right oval foramen flow,	to 990	14.10.66	655.9		Q28.3	14.10.25	Fetal echocardiographic abnormality,	
	Fetal restriction of oval foramen,	to 990	14.10.41	655.9		Q28.3	14.10.25	Fetal echocardiographic abnormality,	
	Fetal closure of oval foramen,	to 990	14.10.42	655.9		Q28.3	14.10.25	Fetal echocardiographic abnormality,	
	Fetal arterial duct narrowing-closure,	to 990	14.10.51	655.5		Q35.5	Q86.8	14.10.01	Fetal abnormality,
	Fetal arterial duct narrowing,	to 990	14.10.56	655.5		Q35.5	Q86.8	14.10.01	Fetal abnormality,
	Fetal arterial duct closure,	to 990	14.10.57	655.5		Q35.5	Q86.8	14.10.01	Fetal abnormality,
	Fetal arterial duct narrowing-closure due to maternal NSAID ingestion,	to 990	14.10.47	655.5		Q35.5	Q86.8	14.10.01	Fetal abnormality,
	Fetal arterial duct narrowing due to maternal NSAID ingestion,	to 990	14.10.58	655.5		Q35.5	Q86.8	14.10.01	Fetal abnormality,
	Fetal arterial duct closure due to maternal NSAID ingestion,	to 990	14.10.59	655.5		Q35.5	Q86.8	14.10.01	Fetal abnormality,
514	Fetal heart muscle abnormalities and cardiomyopathy								
	Fetal heart muscle abnormality,	to 655	14.11.80	425.4		H2.9	14.11.80	Fetal heart muscle abnormality,	
	Fetal cardiomyopathy,	to 655	14.11.81	425.4		H2.9	14.11.81	Fetal cardiomyopathy,	
	Fetal hypertrophic cardiomyopathy,	to 655	14.11.82	425.4		H2.2	14.11.81	Fetal cardiomyopathy,	
	Fetal hypertrophic cardiomyopathy due to twin-to-twin transfusion syndrome,	to 668	14.11.83	425.4		H2.2	14.11.81	Fetal cardiomyopathy,	
	Fetal hypertrophic cardiomyopathy associated with renal disease,	to 668	14.10.09	779.8†	425.8*	P29.8†	H3.8*	14.11.81	Fetal cardiomyopathy,
	Fetal hypertrophic cardiomyopathy due to maternal diabetes mellitus,	to 1	14.11.84	425.4	648.0	H2.2	Q24.9	14.11.81	Fetal cardiomyopathy,
	Fetal dilated cardiomyopathy,	to 658	14.11.85	425.4		H2.2	14.11.81	Fetal cardiomyopathy,	
	Fetal myocarditis,	to 620	14.11.86	429.9		H0.0	14.11.81	Fetal cardiomyopathy,	
	Fetal ventricular dysfunction,	to 650	14.11.87	429.8		E1.8	14.11.87	Fetal ventricular dysfunction,	
	Fetal right ventricular dysfunction,	to 650	14.11.88	429.8		E1.8	14.11.87	Fetal ventricular dysfunction,	
	Fetal left ventricular dysfunction,	to 650	14.11.89	429.8		E1.8	14.11.87	Fetal ventricular dysfunction,	
	Fetal biventricular dysfunction,	to 650	14.11.90	429.8		E1.8	14.11.87	Fetal ventricular dysfunction,	
	Fetal cardiac dysfunction due to noncardiac disease,	to 1	14.10.44	655.9		Q28.3	14.11.87	Fetal ventricular dysfunction,	
	Gestational age qualifiers	to 990	not relevant						
515	Fetal cardiac valvar abnormalities								
	Fetal tricuspid regurgitation,	to 991	14.13.01	746.8		Q22.8	06.01.25	Tricuspid regurgitation: congenital,	
	Fetal tricuspid valvar stenosis,	to 991	14.13.02	746.1		Q22.4	06.01.92	Tricuspid stenosis,	
	Fetal mitral regurgitation,	to 991	14.13.03	746.6		Q23.3	06.02.25	Mitral regurgitation: congenital,	
	Fetal mitral valvar stenosis,	to 991	14.13.04	746.5		Q23.2	06.02.07	Mitral valvar stenosis: congenital,	
	Fetal right atrioventricular valvar regurgitation,	to 991	14.13.05	746.8		Q22.8	06.01.25	Tricuspid regurgitation: congenital,	
	Fetal right atrioventricular valvar stenosis,	to 991	14.13.06	746.8		Q22.8	06.01.92	Tricuspid stenosis,	
	Fetal left atrioventricular valvar regurgitation,	to 991	14.13.07	746.8		Q23.8	06.02.25	Mitral regurgitation: congenital,	
	Fetal left atrioventricular valvar stenosis,	to 991	14.13.08	746.8		Q23.8	06.02.07	Mitral valvar stenosis: congenital,	
	Fetal common atrioventricular valvar regurgitation,	to 991	14.13.09	746.8		Q24.8	06.05.06	Atrioventricular septal defect (AVSD) atrioventricular valvar regurgitation,	
	Fetal common atrioventricular valvar stenosis,	to 991	14.13.10	746.9		Q24.8	06.05.01	Atrioventricular septal defect (AVSD) atrioventricular valvar abnormality,	
	Fetal truncal valvar regurgitation,	to 991	14.13.11	746.9		Q24.8	09.02.03	Truncal valvar regurgitation,	
	Fetal truncal valvar stenosis,	to 991	14.13.12	746.9		Q24.8	09.02.00	Truncal valvar abnormality,	
	Fetal pulmonary regurgitation,	to 991	14.13.13	746		Q22.2	09.05.22	Pulmonary regurgitation: congenital,	
	Fetal pulmonary valvar stenosis,	to 991	14.13.14	746		Q22.1	09.05.04	Pulmonary valvar stenosis: congenital,	
	Fetal aortic regurgitation,	to 991	14.13.15	746.4		Q23.1	09.15.07	Aortic regurgitation: congenital,	
	Fetal aortic valvar stenosis,	to 991	14.13.16	746.3		Q23.0	09.15.01	Aortic valvar stenosis: congenital,	
516	Fetal cardiomegaly and heart failure								
	Fetal cardiomegaly,	to 990	14.10.95	655.9		Q28.3	14.10.95	Fetal cardiomegaly,	
	Fetal cardiomegaly: cardiothoracic ratio 0.33-0.50,	to 990	14.10.96	655.9		Q28.3	14.10.95	Fetal cardiomegaly,	
	Fetal cardiomegaly: cardiothoracic ratio over 0.5,	to 990	14.10.97	655.9		Q28.3	14.10.95	Fetal cardiomegaly,	
	Fetal cardiomegaly: cardiothoracic ratio over 0.5 or less than 0.2,	to 990	14.11.02	655.9		Q28.3	14.10.95	Fetal cardiomegaly,	
	Fetal heart failure,	to 990	14.10.98	655.9		Q28.3	14.10.98	Fetal heart failure,	
	Fetal heart failure due to extracardiac disease,	to 524	14.10.99	655.9		Q28.3	14.10.99	Fetal heart failure due to extracardiac disease,	
	Fetal heart failure with myocardial hypertrophy,	to 990	14.11.00	655.9		Q28.3	14.10.98	Fetal heart failure,	
	Fetal heart failure with redistribution of cardiac output,	to 990	14.11.01	655.9		Q28.3	14.10.98	Fetal heart failure,	
	Fetal fluid retention and hydrops	to 518	not relevant						
	Fetal Cardiovascular Profile Scores (Huhta)	to 519	not relevant						
517	Fetal arterial blood flows								
	Fetal arterial Doppler flows normal,	to 525	14.11.30				not relevant		
	Fetal aortic arch blood flow normal,	to 525	14.11.31				not relevant		
	Fetal middle cerebral arterial flow normal,	to 525	14.11.32				not relevant		
	Fetal coronary arterial flow normal,	to 525	14.11.33				not relevant		
	Fetal umbilical arterial Doppler flow normal,	to 525	14.11.34				not relevant		
	Fetal arterial Doppler flow(s) abnormal for gestational age,	to 525	14.11.40	655.9		Q28.3	14.11.40	Fetal arterial Doppler flow(s) abnormal for gestational age,	
	Fetal aortic arch flow abnormal for gestational age,	to 525	14.11.41	655.9		Q28.3	14.11.41	Fetal aortic arch flow abnormal for gestational age,	
	Fetal reversal of aortic arch blood flow for gestational age,	to 525	14.11.42	655.9		Q28.3	14.11.42	Fetal reversal of aortic arch blood flow for gestational age,	
	Fetal ductal arch flow abnormal for gestational age,	to 525	14.11.43	655.9		Q28.3	14.11.43	Fetal ductal arch flow abnormal for gestational age,	
	Fetal reversal of ductal arch blood flow for gestational age,	to 525	14.11.44	655.9		Q28.3	14.11.44	Fetal reversal of ductal arch blood flow for gestational age,	
	Fetal increased middle cerebral arterial velocity for gestational age,	to 525	14.11.45	655.9		Q28.3	14.11.40	Fetal arterial Doppler flow(s) abnormal for gestational age,	
	Fetal increased middle cerebral systolic arterial velocity for gestational age due to anaemia,	to 525	14.11.46	655.9		Q28.3	14.11.40	Fetal arterial Doppler flow(s) abnormal for gestational age,	
	Fetal increased middle cerebral diastolic arterial velocity for gestational age (brain sparing),	to 525	14.11.47	655.9		Q28.3	14.11.40	Fetal arterial Doppler flow(s) abnormal for gestational age,	
	Fetal increased coronary arterial velocity (heart sparing),	to 525	14.11.48	655.9		Q28.3	14.11.40	Fetal arterial Doppler flow(s) abnormal for gestational age,	
	Fetal umbilical arterial flow abnormal,	to 525	14.11.49	655.9		Q28.3	14.11.40	Fetal arterial Doppler flow(s) abnormal for gestational age,	
518	Fetal venous blood flows								
	Fetal venous Doppler flows normal,	to 526	14.11.60				not relevant		
	Fetal venous Doppler flow(s) normal: inferior caval vein (IVC),	to 526	14.11.61				not relevant		
	Fetal venous Doppler flow(s) normal: superior caval vein (SVC),	to 526	14.11.62				not relevant		
	Fetal venous Doppler flow(s) normal: hepatic vein(s),	to 526	14.11.63				not relevant		
	Fetal venous Doppler flow(s) normal: pulmonary vein(s),	to 526	14.11.64				not relevant		
	Fetal venous Doppler flow(s) normal: umbilical vein,	to 526	14.11.65				not relevant		
	Fetal venous Doppler flow(s) normal: venous duct,	to 526	14.11.66				not relevant		

Fetal venous Doppler flow(s) abnormal for gestational age,	to 526	14.10.26	655.9	O28.3	14.10.26	Fetal venous Doppler flow(s) abnormal for gestational age,
Fetal venous Doppler flow(s) abnormal in Intrauterine Growth Restriction (IUGR),	to 526	14.11.70	655.9	O28.3	14.10.26	Fetal venous Doppler flow(s) abnormal for gestational age,
Fetal venous Doppler flow(s) abnormal for gestational age: inferior caval vein (VC),	to 526	14.11.71	655.9	O28.3	14.10.26	Fetal venous Doppler flow(s) abnormal for gestational age,
Fetal venous Doppler flow(s) abnormal for gestational age: superior caval vein (SVC),	to 526	14.11.72	655.9	O28.3	14.10.26	Fetal venous Doppler flow(s) abnormal for gestational age,
Fetal venous Doppler flow(s) abnormal for gestational age: hepatic vein(s),	to 526	14.11.73	655.9	O28.3	14.10.26	Fetal venous Doppler flow(s) abnormal for gestational age,
Fetal venous Doppler flow(s) abnormal for gestational age: pulmonary vein(s),	to 526	14.11.74	655.9	O28.3	14.10.26	Fetal venous Doppler flow(s) abnormal for gestational age,
Fetal venous Doppler flow(s) abnormal for gestational age: pulmonary vein(s) in left heart obstruction,	to 526	14.11.75	655.9	O28.3	14.10.26	Fetal venous Doppler flow(s) abnormal for gestational age,
Fetal venous Doppler flow(s) abnormal for gestational age: umbilical vein,	to 526	14.11.76	655.9	O28.3	14.10.26	Fetal venous Doppler flow(s) abnormal for gestational age,
Fetal venous Doppler flow(s) abnormal for gestational age: venous duct,	to 526	14.11.77	655.9	O28.3	14.10.26	Fetal venous Doppler flow(s) abnormal for gestational age,
Fetal venous Doppler flow(s) abnormal for gestational age: portal vein,	to 526	14.11.78	655.9	O28.3	14.10.26	Fetal venous Doppler flow(s) abnormal for gestational age,

519 Fetal Cardiovascular Profile Scores (Huhta)

Normal fetal Cardiovascular Profile Score (Huhta),	to 1	14.13.50				not relevant
Abnormal fetal Cardiovascular Profile Score (Huhta),	to 1	14.13.51	655.9	O28.3	14.13.52	Abnormal fetal Cardiovascular Profile Score (Huhta),
Fetal Cardiovascular Profile Score (Huhta) = 10,	to 1	14.13.52	655.9	O28.3	14.13.52	Abnormal fetal Cardiovascular Profile Score (Huhta),
Fetal Cardiovascular Profile Score (Huhta) = 9,	to 1	14.13.53	655.9	O28.3	14.13.52	Abnormal fetal Cardiovascular Profile Score (Huhta),
Fetal Cardiovascular Profile Score (Huhta) = 8,	to 1	14.13.54	655.9	O28.3	14.13.52	Abnormal fetal Cardiovascular Profile Score (Huhta),
Fetal Cardiovascular Profile Score (Huhta) = 7,	to 1	14.13.55	655.9	O28.3	14.13.52	Abnormal fetal Cardiovascular Profile Score (Huhta),
Fetal Cardiovascular Profile Score (Huhta) = 6,	to 1	14.13.56	655.9	O28.3	14.13.52	Abnormal fetal Cardiovascular Profile Score (Huhta),
Fetal Cardiovascular Profile Score (Huhta) = 5,	to 1	14.13.57	655.9	O28.3	14.13.52	Abnormal fetal Cardiovascular Profile Score (Huhta),
Fetal Cardiovascular Profile Score (Huhta) = 4,	to 1	14.13.58	655.9	O28.3	14.13.52	Abnormal fetal Cardiovascular Profile Score (Huhta),
Fetal Cardiovascular Profile Score (Huhta) = 3,	to 1	14.13.59	655.9	O28.3	14.13.52	Abnormal fetal Cardiovascular Profile Score (Huhta),
Fetal Cardiovascular Profile Score (Huhta) = 2,	to 1	14.13.60	655.9	O28.3	14.13.52	Abnormal fetal Cardiovascular Profile Score (Huhta),
Fetal Cardiovascular Profile Score (Huhta) = 1,	to 1	14.13.61	655.9	O28.3	14.13.52	Abnormal fetal Cardiovascular Profile Score (Huhta),
Fetal Cardiovascular Profile Score (Huhta) = 0,	to 1	14.13.62	655.9	O28.3	14.13.52	Abnormal fetal Cardiovascular Profile Score (Huhta),

520 Fetal outcome

Spontaneous abortion-miscarriage (under 24 wks),	to 990	14.10.35	761.8	P01.8	14.10.35	Spontaneous abortion-miscarriage (under 24 wks),
Stillbirth (over 24 wks),	to 990	14.10.36	779.9	P95	14.10.36	Stillbirth (over 24 wks),
Termination of pregnancy procedure,	to 528	14.10.37	635	O04	14.10.37	Termination of pregnancy procedure,
Terminated pregnancy (with respect to fetus),	to 990	14.10.38	779.9	P96.4	14.10.38	Terminated pregnancy (with respect to fetus),
In utero death,	to 990	14.10.18	779.9	O36.4	14.10.18	In utero death,
Liveborn,	to 990	14.10.72			14.10.72	Liveborn,
Selective fetocide in multiple pregnancy,	to 990	14.10.73	779.6	P96.4	14.10.73	Selective fetocide in multiple pregnancy,

523 @ Fetal echogenic focus qualifiers

- echogenic focus in left ventricle,	to 990	Q1.51.01				not relevant
- single echogenic focus in left ventricle,	to 990	Q1.51.02				not relevant
- multiple echogenic foci in left ventricle,	to 990	Q1.51.03				not relevant
- echogenic focus in right ventricle,	to 990	Q1.51.04				not relevant
- single focus in right ventricle: single,	to 990	Q1.51.05				not relevant
- multiple echogenic foci in right ventricle,	to 990	Q1.51.06				not relevant
- echogenic foci in left & right ventricles,	to 990	Q1.51.07				not relevant
- characteristics unknown or unspecified,	to 990	Q1.90.83				not relevant
no entry	to 990	not relevant				not relevant

524 @ Extracardiac causes of fetal heart failure - qualifiers

- arteriovenous malformation,	to 990	Q1.53.31	747.6	O27.3		not relevant
- congenital diaphragmatic hernia,	to 990	Q1.53.32	756.6	O79.0		not relevant
- cystic congenital adenomatous malformation (CAM) of the lung,	to 990	Q1.53.33	748.4	O33.0		not relevant
- cystic hygroma,	to 990	Q1.53.34	228.1	D18.1		not relevant
- sacrococcygeal teratoma,	to 990	Q1.53.35	M9080/1	M9080/1		not relevant
- teratoma,	to 990	Q1.53.37	M9080/1	M9080/1		not relevant
- twin-to-twin transfusion,	to 990	Q1.53.36	762.3	P02.3		not relevant
- haemangioma,	to 990	Q1.53.38	M9120/0	M9120/0		not relevant
- fetal anaemia,	to 990	Q1.53.39	776.5	P61.4		not relevant
- characteristics unknown or unspecified,	to 990	Q1.90.83				not relevant
no entry	to 990	not relevant				not relevant

525 @ Fetal arterial Doppler flow findings - qualifiers

- in systole,	to 990	Q1.51.21				not relevant
- in diastole,	to 990	Q1.51.22				not relevant
- in systole & diastole,	to 990	Q1.51.23				not relevant
- aortic isthmus only,	to 990	Q1.51.24				not relevant
- to transverse arch,	to 990	Q1.51.25				not relevant
- to ascending aorta,	to 990	Q1.51.26				not relevant
- to pulmonary trunk,	to 990	Q1.51.27				not relevant
- reduced end-diastolic velocity,	to 990	Q1.51.28				not relevant
- absent end-diastolic velocity,	to 990	Q1.51.29				not relevant
- reversed end-diastolic velocity,	to 990	Q1.51.30				not relevant
- characteristics unknown or unspecified,	to 990	Q1.90.83				not relevant
no entry	to 990	not relevant				not relevant

526 @ Fetal venous Doppler findings - qualifiers

- nonpulsatile flow,	to 990	Q1.51.41				not relevant
- increased Pulsatility Index (PI),	to 990	Q1.51.42				not relevant
- reduced a-wave (atrial) velocity,	to 990	Q1.51.43				not relevant
- zero a-wave (atrial) velocity,	to 990	Q1.51.44				not relevant
- reversed a-wave (atrial) velocity,	to 990	Q1.51.45				not relevant
- diastolic (atrial) pulsations,	to 990	Q1.51.46				not relevant
- late diastolic pulsations,	to 990	Q1.51.47				not relevant
- systolic pulsations,	to 990	Q1.51.48				not relevant
- double pulsations,	to 990	Q1.51.49				not relevant
- absence of early diastolic flow,	to 990	Q1.51.50				not relevant
- reduced flow,	to 990	Q1.51.51				not relevant
- reversed flow,	to 990	Q1.51.52				not relevant
- characteristics unknown or unspecified,	to 990	Q1.90.83				not relevant
no entry	to 1	not relevant				not relevant

527 @ Intrauterine growth restriction (retardation) (IUGR) qualifiers

- symmetrical,	to 990	Q1.53.01				not relevant
- asymmetrical,	to 990	Q1.53.02				not relevant
- due to uteroplacental insufficiency,	to 1	Q1.53.03				not relevant
- due to fetal chromosomal abnormality,	to 535	Q1.53.04				not relevant
- due to fetal syndrome,	to 1	Q1.53.05				not relevant
- due to redistribution of arterial flows,	to 1	Q1.53.06				not relevant
- due to maternal drug abuse,	to 985	Q1.53.07				not relevant
- due to maternal alcohol abuse,	to 1	Q1.53.08				not relevant
- due to cigarette smoking,	to 1	Q1.53.09				not relevant
- due to intrauterine infection,	to 627	Q1.53.10				not relevant
- due to maternal disease,	to 1	Q1.53.11				not relevant
- due to maternal congenital heart disease,	to 5	Q1.53.12				not relevant
- due to maternal anaemia,	to 1	Q1.53.13				not relevant
- due to maternal systemic hypertension (pre-eclampsia),	to 1	Q1.53.14				not relevant
- due to maternal renal disease,	to 1	Q1.53.15				not relevant
- due to maternal malnutrition,	to 1	Q1.53.16				not relevant
- due to multiple pregnancy,	to 1	Q1.53.17				not relevant
- due to high altitude,	to 1	Q1.53.18				not relevant
- characteristics unknown or unspecified,	to 5	Q1.90.83				not relevant
no entry	not relevant					not relevant

528 @ Termination of pregnancy qualifiers

- therapeutic,	to 990	Q1.51.90				not relevant
- for congenital heart lesion,	to 990	Q1.51.91				not relevant
- for abnormal karyotype,	to 990	Q1.51.92				not relevant
- for multiple congenital anomalies,	to 990	Q1.51.93				not relevant
- social,	to 990	Q1.51.94				not relevant
- for unknown or unspecified reason,	to 990	Q1.51.95				not relevant
no entry	not relevant					not relevant

End of branch

530 Neonatal status and abnormalities

Neonatal status	to 531	not relevant				
Neonatal disorder,	to 1	10.15.00	779.9	P96.9	10.15.00	Neonatal disorder,
Persistent pulmonary hypertension of the newborn (PPH),	to 1	10.15.01	747.9	P29.3	10.15.01	Persistent pulmonary hypertension of the newborn (PPH),
Transient myocardial ischaemia,	to 1	10.15.10	779.8	P29.4	10.15.10	Transient myocardial ischaemia,
Heart muscle disease in infant of diabetic mother,	to 668	10.07.71	775.01	425.8*	10.07.71	Heart muscle disease in infant of diabetic mother,
Neonatal respiratory failure,	to 1	10.15.14	770.8	P28.5	16.30.01	Respiratory failure,
Neonatal cardiac failure,	to 1	10.15.16	779.8	P29.0	10.15.00	Neonatal disorder,
Transient tachypnoea of the newborn,	to 1	10.15.15	770.6	P22.1	10.15.00	Neonatal disorder,
Bronchopulmonary dysplasia,	to 1	10.15.02	770.7	P27.1	10.15.00	Neonatal disorder,
Infant Respiratory Distress Syndrome (RDS),	to 1	10.15.03	769	P22.0	10.15.00	Neonatal disorder,

Neonatal polycythaemia,	to 1	10.15.04	776.4	P61.1	10.15.00	Neonatal disorder,
Neonrotising enterocolitis,	to 1	10.15.05	777.5	P77	10.15.05	Necrotising enterocolitis,
Mecorium aspiration,	to 1	10.15.12	770.1	P24.0	10.15.12	Mecorium aspiration,
Perinatal asphyxia,	to 1	10.15.13	768.9	P21.9	10.15.00	Neonatal disorder,
Vagal sinus bradycardia: bradycardia(s) of prematurity,	to 1	11.02.15	427.8	P29.1	11.02.15	Vagal sinus bradycardia: bradycardia(s) of prematurity,
Neonatal periventricular haemorrhage,	to 1	10.15.06	772.1	P52.3	10.15.00	Neonatal disorder,
Infantile post-haemorrhagic hydrocephalus,	to 1	10.15.07	331.4	G91	10.15.00	Neonatal disorder,
Neonatal metabolic derangement,	to 1935	10.15.08	775.9	P74.9	10.15.00	Neonatal disorder,
Neonatal physiological jaundice,	to 1	10.15.09	774.6	P59.9	10.15.00	Neonatal disorder,
Neonatal feeding problems,	to 1	10.15.11	779.3	P92.9	10.15.00	Neonatal disorder,

531 Neonatal status

Singleton,	to 1	10.22.00				
Twin,	to 1	10.21.00	V33	Z37.2	No equivalent	
Triplet,	to 1	10.21.08	V37	Z37.9	No equivalent	
Multiple birth over 2,	to 1	10.21.01	V37	Z37.9	No equivalent	
Conjoined twins,	to 532	not relevant				
Small for gestational age,	to 1	10.22.01	764	P05.1	10.15.00	Neonatal disorder,
Premature birth,	to 1	10.22.02	765.1	P07.3	10.22.02	Premature birth,
Premature birth 32-35 weeks,	to 1	10.22.05	765.1	P07.3	10.22.05	Premature birth 32-35 weeks,
Premature birth less than 32 weeks,	to 1	10.22.06	765.1	P07.3	10.22.06	Premature birth less than 32 weeks,
Infant of diabetic mother,	to 1	10.22.03	775	P70.1	10.22.03	Infant of diabetic mother,
Birth asphyxia,	to 1	10.22.04	768.9	P21.9	10.15.00	Neonatal disorder,
Weight less than 2.5 kg,	to 1	10.22.07	765.1	P07.1	10.22.07	Weight less than 2.5 kg,

532 Conjoined twins

Conjoined twins,	to 1	10.21.02	759.4	Q89.4	14.06.01	Multiple congenital malformations,
Conjoined twins: cephalopagus (anterior union of the upper half of the body with two faces on opposite sides of a conjoined head),	to 1	10.21.10	759.4	Q89.4	14.06.01	Multiple congenital malformations,
Conjoined twins: cranial union only (craniopagus),	to 1	10.21.11	759.4	Q89.4	14.06.01	Multiple congenital malformations,
Conjoined twins: anterior union of head and chest (craniothoracopagus),	to 1	10.21.12	759.4	Q89.4	14.06.01	Multiple congenital malformations,
Conjoined twins: anterior thoracic union (thoracopagus) with separate hearts & pericardial sacs,	to 1	10.21.13	759.4	Q89.4	14.06.01	Multiple congenital malformations,
Conjoined twins: anterior thoracic union (thoracopagus) with separate hearts & common pericardial sac,	to 1	10.21.14	759.4	Q89.4	14.06.01	Multiple congenital malformations,
Conjoined twins: anterior thoracic union (thoracopagus) with conjoined atria,	to 1	10.21.15	759.4	Q89.4	14.06.01	Multiple congenital malformations,
Conjoined twins: anterior thoracic union (thoracopagus) with conjoined atria & ventricles,	to 1	10.21.16	759.4	Q89.4	14.06.01	Multiple congenital malformations,
Conjoined twins: anterior abdominal union only (omphalopagus),	to 1	10.21.17	759.4	Q89.4	14.06.01	Multiple congenital malformations,
Conjoined twins: anterior pelvic union with separate spinal columns (ischiopagus),	to 1	10.21.18	759.4	Q89.4	14.06.01	Multiple congenital malformations,
Conjoined twins: lateral union (parapagus),	to 1	10.21.19	759.4	Q89.4	14.06.01	Multiple congenital malformations,
Conjoined twins: lateral union of lower body only (dithoracic parapagus),	to 1	10.21.20	759.4	Q89.4	14.06.01	Multiple congenital malformations,
Conjoined twins: lateral union with single body and two heads (dicephalic parapagus or dicephalus),	to 1	10.21.21	759.4	Q89.4	14.06.01	Multiple congenital malformations,
Conjoined twins: lateral union with single trunk & head and two faces (diprosopic parapagus),	to 1	10.21.22	759.4	Q89.4	14.06.01	Multiple congenital malformations,
Conjoined twins: posterior sacral union (pyopagus),	to 1	10.21.23	759.4	Q89.4	14.06.01	Multiple congenital malformations,
Conjoined twins: dorsal spinal union (rachipagus),	to 1	10.21.24	759.4	Q89.4	14.06.01	Multiple congenital malformations,

End of branch

535 Major chromosomal anomalies with cardiac involvement

Chromosomal anomaly,	to 1	14.01.01	758.9	Q99.9	14.01.01	Chromosomal anomaly,
Chromosome point mutations or microdeletions	to 538	not relevant				
Trisomy 21: Down's syndrome,	to 1	14.01.02	758.0	Q90.9	14.01.02	Trisomy 21: Down's syndrome,
Trisomy 21: mosaic,	to 1	14.01.12	758.0	Q90.1	14.01.02	Trisomy 21: Down's syndrome,
Trisomy 18: Edwards' syndrome,	to 1	14.01.03	758.2	Q91.3	14.01.03	Trisomy 18: Edwards' syndrome,
Trisomy 18: mosaic,	to 1	14.01.13	758.2	Q91.1	14.01.03	Trisomy 18: Edwards' syndrome,
Trisomy 13: Patau's syndrome,	to 1	14.01.04	758.1	Q91.7	14.01.04	Trisomy 13: Patau's syndrome,
45X0: Turner's syndrome,	to 1	14.01.05	758.6	Q96.9	14.01.05	45X0: Turner's syndrome,
XXY: Klinefelter's syndrome,	to 1	14.01.06	758.7	Q98.4	14.01.01	Chromosomal anomaly,
Deletion 4p,	to 1	14.01.09	758.3	Q93.3	14.01.01	Chromosomal anomaly,
Cri-du-chat syndrome: deletion 5p,	to 1	14.01.10	758.3	Q93.4	14.01.01	Chromosomal anomaly,
Cat-Eye syndrome: Trisomy 22pter-q11,	to 1	14.01.11	758.3	Q99.8	14.01.01	Chromosomal anomaly,
Fragile X syndrome: marker Xq27.3,	to 1	14.01.07	758.8	Q99.2	14.01.01	Chromosomal anomaly,

538 Chromosome point mutations or microdeletions

Chromosome point mutation or microdeletion,	to 1	14.01.20	758.9	Q93.8	14.01.01	Chromosomal anomaly,
22q11 microdeletion,	to 1	14.01.21	758.3	Q93.8	14.01.21	22q11 microdeletion,
22q11 microdeletion with full DiGeorge sequence (including immune dysfunction),	to 1	14.02.06	279.1	D82.1	14.02.06	22q11 microdeletion with full DiGeorge sequence (includes immune dysfunction),
22q11 microdeletion with velocardiofacial (Shprintzen) phenotype,	to 1	14.02.29	758.3	Q93.8	14.01.21	22q11 microdeletion,
Williams syndrome (infantile hypercalcaemia),	to 1	14.02.30	275.4	747.2	Q93.8	Williams syndrome (infantile hypercalcaemia),
Hypertrophic cardiomyopathy with genetic marker,	to 688	14.01.22	425.4	M2.2	10.10.20	Hypertrophic cardiomyopathy,
Dilated cardiomyopathy with genetic marker,	to 688	14.01.24	425.4	M2.0	10.10.25	Dilated cardiomyopathy,
Long QT syndrome with genetic marker,	to 861	14.01.23	426.9	M5.9	11.12.29	Long QT syndrome,
Sotos Syndrome (NSD1 aberration),	to 1	14.01.25	759.8	Q87.3	14.02.00	Syndrome-association with cardiac involvement,

End of branch

542 Hereditary metabolic disorders with cardiac involvement

Hereditary metabolic disorder associated with heart disease,	to 1	14.02.35	277.9	E88.9	10.23.04	Hereditary disorder associated with heart disease,
Hurler syndrome: mucopolysaccharidosis type IH,	to 1	14.02.13	277.5	E76.0	10.23.04	Hereditary disorder associated with heart disease,
Scheie syndrome: mucopolysaccharidosis type IS,	to 1	14.02.24	277.5	E76.0	10.23.04	Hereditary disorder associated with heart disease,
Hurler-Scheie syndrome: mucopolysaccharidosis type IHS,	to 1	14.02.36	277.5	E76.0	10.23.04	Hereditary disorder associated with heart disease,
Hunter syndrome: mucopolysaccharidosis type II,	to 1	14.02.37	277.5	E76.1	10.23.04	Hereditary disorder associated with heart disease,
Morquio syndrome: mucopolysaccharidosis type IV,	to 1	14.02.18	277.5	E76.2	10.23.04	Hereditary disorder associated with heart disease,
Maroteaux-Lamy syndrome: mucopolysaccharidosis type VI,	to 1	14.02.38	277.5	E76.2	10.23.04	Hereditary disorder associated with heart disease,
Inclusion (I) cell disease: mucopolisidosis II,	to 1	14.02.39	272.7	E77.0	10.23.04	Hereditary disorder associated with heart disease,
Pompe's disease: glycogen storage disease type Ia,	to 1	14.02.21	271	E74.0	14.02.21	Pompe's disease: glycogen storage disease type Ia,
Glycogen storage disease type II: debrancher enzyme deficiency (Cori's disease),	to 1	14.02.46	271	E74.0	10.23.04	Hereditary disorder associated with heart disease,
Glycogen storage disease type V: branching enzyme deficiency,	to 1	14.02.40	271	E74.0	10.23.04	Hereditary disorder associated with heart disease,
Glycogen storage disease type V: phosphorylase b deficiency,	to 1	14.02.47	271	E74.0	10.23.04	Hereditary disorder associated with heart disease,
Gaucher's disease: glucosylceramidosis,	to 1	14.02.41	272.7	E75.2	10.23.04	Hereditary disorder associated with heart disease,
Fabry's disease: alpha-galactosidase A deficiency,	to 1	14.02.42	272.7	E75.2	10.23.04	Hereditary disorder associated with heart disease,
Refsum's disease: phytanic acid storage disease,	to 1	14.02.43	356.3	G60.1	10.23.04	Hereditary disorder associated with heart disease,
Primary haemochromatosis,	to 1	14.02.44	275	E83.1	10.23.04	Hereditary disorder associated with heart disease,
Homocystinuria,	to 1	14.02.45	270.4	E72.1	10.23.04	Hereditary disorder associated with heart disease,
Fucosidosis,	to 1	14.02.57	271.8	E77.1	10.23.04	Hereditary disorder associated with heart disease,
Mannosidosis,	to 1	14.02.48	271.8	E77.1	10.23.04	Hereditary disorder associated with heart disease,
Congenital disorder of glycosylation Type Ia,	to 1	14.02.90	271.8	E77.8	10.23.04	Hereditary disorder associated with heart disease,
Fatal congenital nonlysosomal heart glycosenosis,	to 1	14.02.70	277.9	E88.9	10.23.04	Hereditary disorder associated with heart disease,

End of branch

545 Hereditary neuromuscular disorders with cardiac involvement

Neuromuscular disorder associated with cardiac disease,	to 1	14.02.50	359.9	G71.2	10.23.04	Hereditary disorder associated with heart disease,
Heart muscle disease associated with hystocytoid & mitochondrial disease	to 546	not relevant				
Friedreich's ataxia,	to 1	14.02.10	334	G11.1	14.02.10	Friedreich's ataxia,
Muscular dystrophy,	to 1	14.02.58	359.1	G71.0	14.02.58	Muscular dystrophy,
Duchenne's muscular dystrophy,	to 1	14.02.34	359.1	G71.0	14.02.34	Duchenne's muscular dystrophy,
Duchenne's muscular dystrophy gene carrier,	to 1	14.02.98	V19.5	Z82.7	10.23.03	Family history of disorder with cardiac involvement,
Becker's muscular dystrophy,	to 1	14.02.51	359.1	G71.0	10.23.04	Hereditary disorder associated with heart disease,
Myotonic muscular dystrophy (Steinert's disease),	to 1	14.02.52	359.2	G71.1	10.23.04	Hereditary disorder associated with heart disease,
Emery-Dreifuss (scapulohumeral) muscular dystrophy,	to 1	14.02.53	359.1	G71.1	10.23.04	Hereditary disorder associated with heart disease,
Barth syndrome (X-linked cardioskeletal myopathy),	to 1	14.02.55	359.8	G71.2	10.23.04	Hereditary disorder associated with heart disease,
Juvenile spinal muscular atrophy (Kugelberg-Welander),	to 1	14.02.56	335.1	G12.1	10.23.04	Hereditary disorder associated with heart disease,
Limb-girdle muscular dystrophy (Erb),	to 1	14.02.63	359.1	G71.2	10.23.04	Hereditary disorder associated with heart disease,
Infantile X-linked muscular dystrophy,	to 1	14.02.64	359.0	G71.2	10.23.04	Hereditary disorder associated with heart disease,
Nemaline myopathy,	to 1	14.02.96	359.0	G71.2	10.23.04	Hereditary disorder associated with heart disease,
Central core myopathy,	to 1	14.02.97	359.0	G71.2	10.23.04	Hereditary disorder associated with heart disease,

546 Heart muscle disease associated with hystiocytoid & mitochondrial disease

Heart muscle disease associated with mitochondrial disease,	to 1	14.07.01	425.4	359.8	M2.8	G71.3	10.10.01	Cardiomyopathy,
Hypertrophic cardiomyopathy associated with mitochondrial disease,	to 1	10.10.34	425.4	359.8	M2.2	G71.3	10.10.20	Hypertrophic cardiomyopathy,
Kearns-Sayre syndrome (mitochondrial cardiomyopathy),	to 1	14.02.54	378.7	H49.8			10.23.04	Hereditary disorder associated with heart disease,
Mitochondrial myopathy: hystiocytoid cardiomyopathy,	to 1	10.10.51	425.4	M2.8			10.10.01	Cardiomyopathy,
Mitochondrial myopathy: cytochrome b deficiency (hystiocytoid),	to 1	14.07.02	359.8	G71.3			10.23.04	Hereditary disorder associated with heart disease,
Mitochondrial myopathy: cytochrome aa3 deficiency (hystiocytoid),	to 1	14.07.03	359.8	G71.3			10.23.04	Hereditary disorder associated with heart disease,
Mitochondrial myopathy: cytochrome c-reductase deficiency (hystiocytoid),	to 1	14.07.04	359.8	G71.3			10.23.04	Hereditary disorder associated with heart disease,
Mitochondrial myopathy: Leigh syndrome,	to 1	14.07.05	359.8	G71.3			10.23.04	Hereditary disorder associated with heart disease,
Mitochondrial myopathy: MELAS,	to 1	14.07.06	359.8	G71.3			10.23.04	Hereditary disorder associated with heart disease,
Mitochondrial myopathy: MERRF,	to 1	14.07.07	359.8	G71.3			10.23.04	Hereditary disorder associated with heart disease,
Mitochondrial myopathy: NADH coenzyme Q reductase deficiency,	to 1	14.07.08	359.8	G71.3			10.23.04	Hereditary disorder associated with heart disease,
Mitochondrial hypertrophic cardiomyopathy associated with cataracts & lactic acidosis,	to 1	14.07.09	359.8	G71.3			10.23.04	Hereditary disorder associated with heart disease,
Mitochondrial myopathy: fatal infantile cardiomyopathy,	to 1	14.07.10	359.8	G71.3			10.23.04	Hereditary disorder associated with heart disease,
Mitochondrial myopathy with maternally inherited cardiomyopathy,	to 1	14.07.11	359.8	G71.3			10.23.04	Hereditary disorder associated with heart disease,

End of branch

550 Hereditary disorders of connective tissue with cardiac involvement

Hereditary disorder of connective tissue associated with heart disease,	to 1	14.02.60	757.9	Q87.8	10.23.04	Hereditary disorder associated with heart disease,
Ehlers-Danlos syndrome,	to 1	14.02.62	756.8	Q79.6	10.23.04	Hereditary disorder associated with heart disease,
Ehlers-Danlos syndrome: classic (type I-II),	to 1	14.02.93	756.8	Q79.6	10.23.04	Hereditary disorder associated with heart disease,
Ehlers-Danlos syndrome: classic (type I-II): type I	to 1	14.04.84	756.8	Q79.6	10.23.04	Hereditary disorder associated with heart disease,
Ehlers-Danlos syndrome: classic (type I-II): type II	to 1	14.04.85	756.8	Q79.6	10.23.04	Hereditary disorder associated with heart disease,
Ehlers-Danlos syndrome: hypermobility (type III),	to 1	14.02.94	756.8	Q79.6	10.23.04	Hereditary disorder associated with heart disease,
Ehlers-Danlos syndrome: vascular (type IV),	to 1	14.02.07	756.8	Q79.6	10.23.04	Hereditary disorder associated with heart disease,
Ehlers-Danlos syndrome: type V,	to 1	14.04.81	756.8	Q79.6	10.23.04	Hereditary disorder associated with heart disease,
Ehlers-Danlos syndrome: kyphoscoliosis (type VI),	to 1	14.04.82	756.8	Q79.6	10.23.04	Hereditary disorder associated with heart disease,
Ehlers-Danlos syndrome: type VII,	to 1	14.04.83	756.8	Q79.6	10.23.04	Hereditary disorder associated with heart disease,
Marfan syndrome,	to 1	14.02.17	759.8	Q87.4	14.02.17	Marfan syndrome,
Loeys-Dietz Syndrome (transforming growth factor beta receptor (TGFB3) gene mutation),	to 1	14.04.85	756.8	Q79.6	10.23.04	Hereditary disorder associated with heart disease,
Pseudoxanthoma elasticum syndrome,	to 1	14.02.22	757.3	Q82.8	10.23.04	Hereditary disorder associated with heart disease,
Osteogenesis imperfecta,	to 1	14.04.07	756.5	Q78.0	10.23.04	Hereditary disorder associated with heart disease,
Cutis laxa syndrome,	to 1	14.02.61	757.3	Q82.8	10.23.04	Hereditary disorder associated with heart disease,

End of branch

555 Other autosomal syndromes-associations with primary cardiac involvement

Major autosomal dominant syndromes with cardiac involvement	to 560	not relevant				
Major autosomal recessive syndromes with cardiac involvement	to 565	not relevant				
Sporadic or heterogenetic associations & syndromes with cardiac involvement	to 570	not relevant				
Syndrome-association with cardiac involvement,	to 1	14.02.00	759.9	Q87.8	14.02.00	Syndrome-association with cardiac involvement,
Syndrome present,	to 1	14.02.01	759.9	Q87.8	14.02.00	Syndrome-association with cardiac involvement,

560 Major autosomal dominant syndromes with cardiac involvement

Apert syndrome: acrocephalosyndactyly type I	to 1	14.02.02	755.5	Q87.0	14.02.00	Syndrome-association with cardiac involvement,
Alagille syndrome: arteriohepatic dysplasia,	to 1	14.02.66	751.6	Q44.7	14.02.66	Alagille syndrome: arteriohepatic dysplasia,
Beckwith-Wiedemann syndrome,	to 1	14.02.67	759.8	Q87.3	14.02.00	Syndrome-association with cardiac involvement,
Costello syndrome,	to 1	14.02.88	756	Q87.0	14.02.00	Syndrome-association with cardiac involvement,
Holt-Oram (heart-hand I) syndrome,	to 1	14.02.12	759.8	Q87.2	14.02.00	Syndrome-association with cardiac involvement,
LEOPARD syndrome (multiple lentiginosis),	to 1	14.02.16	709	L81.4	14.02.00	Syndrome-association with cardiac involvement,
Neurofibromatosis,	to 1	14.02.68	237.7	Q85.0	14.02.00	Syndrome-association with cardiac involvement,
Noonan syndrome,	to 1	14.02.19	759.8	Q87.1	14.02.19	Noonan syndrome,
Treacher Collins syndrome,	to 1	14.02.69	756.0	Q87.0	14.02.00	Syndrome-association with cardiac involvement,
Tuberous sclerosis,	to 1	14.02.28	759.5	Q85.1	14.02.28	Tuberous sclerosis,

565 Major autosomal recessive syndromes with cardiac involvement

Aase syndrome,	to 1	14.02.71	759.8	Q87.8	14.02.00	Syndrome-association with cardiac involvement,
Absent cilia (Kartagener) syndrome,	to 1	14.02.15	279.8	Q33.8	14.02.00	Syndrome-association with cardiac involvement,
Carpenter syndrome: acrocephalosyndactyly type II,	to 1	14.02.04	759.8	Q87.0	14.02.00	Syndrome-association with cardiac involvement,
Ellis-van Creveld syndrome: chondroectodermal dysplasia,	to 1	14.02.08	756.5	Q77.6	14.02.00	Syndrome-association with cardiac involvement,
Fanconi syndrome,	to 1	14.02.72	270.0	E72.0	14.02.00	Syndrome-association with cardiac involvement,
Heart-hand IV syndrome,	to 1	14.02.73	759.9	Q87.2	14.02.00	Syndrome-association with cardiac involvement,
Lawrence-Moon-Biedl syndrome,	to 1	14.02.74	759.8	Q87.8	14.02.00	Syndrome-association with cardiac involvement,
Meckel syndrome,	to 1	14.02.75	759.9	Q87.8	14.02.00	Syndrome-association with cardiac involvement,
Miller Dieker (lissencephaly) syndrome,	to 1	14.02.76	742.2	Q04.3	14.02.00	Syndrome-association with cardiac involvement,
MULBREY (rasism) syndrome,	to 1	14.02.77	259.4	E34.3	14.02.00	Syndrome-association with cardiac involvement,
Smith-Lemli-Opitz syndrome,	to 1	14.02.25	759.8	Q87.1	14.02.00	Syndrome-association with cardiac involvement,
Short limbed polydactyly syndrome,	to 1	14.02.78	759.8	Q87.2	14.02.00	Syndrome-association with cardiac involvement,
Thrombocytopenia - absent radii (TAR) syndrome,	to 1	14.02.27	287.3	Q87.2	14.02.00	Syndrome-association with cardiac involvement,
Cardio-facial-cutaneous syndrome,	to 1	14.02.89	759.8	Q87.8	14.02.00	Syndrome-association with cardiac involvement,

570 Sporadic or heterogenetic associations & syndromes with cardiac involvement

CHARGE association,	to 1	14.03.02	759.7	Q87.8	14.02.00	Syndrome-association with cardiac involvement,	
Cornelia de Lange syndrome,	to 1	14.02.05	759.8	Q87.1	14.02.00	Syndrome-association with cardiac involvement,	
Isomerism sequence (including asplenia-polysplenia & lemark syndromes),	to 1	14.02.03	746.8	Q20.6	14.02.00	Syndrome-association with cardiac involvement,	
lemark syndrome (asplenia with right isomerism & complex congenital heart disease),	to 1	14.02.95	746.8	759.0	Q20.6	14.02.00	Syndrome-association with cardiac involvement,
Goldenhar syndrome: facioauriculovertebral spectrum,	to 1	14.02.11	756.0	Q87.0	14.02.00	Syndrome-association with cardiac involvement,	
Klippel-Feil sequence,	to 1	14.02.81	756.1	Q76.1	14.02.00	Syndrome-association with cardiac involvement,	
Pentalogy of Cantrell,	to 1	14.02.86	759.8	Q87.5	14.02.00	Syndrome-association with cardiac involvement,	
Pierre Robin syndrome,	to 1	14.02.83	756.0	Q87.0	14.02.00	Syndrome-association with cardiac involvement,	
Progeria (Hutchinson-Gilford) syndrome,	to 1	14.02.84	259.8	E34.8	14.02.00	Syndrome-association with cardiac involvement,	
Rubinstein-Taybi syndrome,	to 1	14.02.85	759.8	Q87.2	14.02.00	Syndrome-association with cardiac involvement,	
VATER syndrome,	to 1	14.02.87	759.8	Q87.2	14.02.00	Syndrome-association with cardiac involvement,	
VACTERL association,	to 1	14.03.01	759.8	Q87.2	14.02.00	Syndrome-association with cardiac involvement,	
Poland syndrome (unilateral chest wall hypoplasia-limb anomalies),	to 574	14.02.92	759.8	Q79.8	14.02.00	Syndrome-association with cardiac involvement,	
Dystrophic epidermolysis bullosa,	to 1	14.02.91	757.3	Q81.2	14.02.00	Syndrome-association with cardiac involvement,	

574 @ Syndrome genetic and anomaly qualifiers

- sporadic,	to 1	Q1.52.60			not relevant
- autosomal dominant,	to 1	Q1.52.50			not relevant
- autosomal recessive,	to 1	Q1.52.51			not relevant
- X-linked recessive,	to 1	Q1.52.52			not relevant
- familial,	to 1	Q1.52.53			not relevant
- subclinical gene carrier,	to 1	Q1.52.54			not relevant
- inducible gene carrier,	to 1	Q1.52.55			not relevant
- symptomatic gene carrier,	to 1	Q1.52.56			not relevant
- right-sided,	to 1	Q1.90.65			not relevant
- left-sided,	to 1	Q1.90.66			not relevant
- with limb anomalies,	to 1	Q1.52.00			not relevant
- without limb anomalies,	to 1	Q1.52.05			not relevant
- with absent breast,	to 1	Q1.52.01			not relevant
- with hypoplasia of breast,	to 1	Q1.52.02			not relevant
- with absence of pectoralis major,	to 1	Q1.52.03			not relevant
- with absence of pectoralis minor,	to 1	Q1.52.06			not relevant
- with neurological impairment,	to 1	Q1.52.04			not relevant
- ruled out by genetic analysis,	to 1	Q1.52.75			not relevant
no entry	to 1	not relevant			not relevant

End of branch

577 General hereditary vascular abnormalities

Hereditary vascular dysplasia,	to 1	10.11.01	747.6	Q28.9	10.23.04	Hereditary disorder associated with heart disease,
Hereditary haemorrhagic telangiectasia (Osler-Weber-Rendu syndrome),	to 1	10.11.03	448	Q78.0	10.23.04	Hereditary disorder associated with heart disease,
Klippel-Trenaunay-Weber syndrome,	to 1	10.11.04	599.8	Q87.2	14.02.00	Syndrome-association with cardiac involvement,
Hereditary lymphoedema (Milroy's disease),	to 1	10.11.05	289.9	Q82.0	10.23.04	Hereditary disorder associated with heart disease,
Idiopathic arterial calcification of infancy,	to 1	10.11.07	447.9	Q28.8	10.23.04	Hereditary disorder associated with heart disease,
Arterial tortuosity syndrome,	to 1	10.11.08	747.6	Q28.8	14.02.00	Syndrome-association with cardiac involvement,

End of branch

579 Dyslipidaemias

Dyslipidaemia,	to 1	10.19.01	272.4	E78.9	10.19.01	Dyslipidaemia,
Hyperlipidaemia,	to 1	10.19.10	272.4	E78.9	10.19.01	Dyslipidaemia,
Hypercholesterolaemia,	to 1	10.19.11	272.0	E78.0	10.19.01	Dyslipidaemia,
Familial hypercholesterolaemia,	to 1	10.19.02	272.0	E78.0	10.19.01	Dyslipidaemia,
Familial hypercholesterolaemia: heterozygous,	to 1	10.19.12	272.0	E78.0	10.19.01	Dyslipidaemia,
Familial hypercholesterolaemia: homozygous,	to 1	10.19.13	272.0	E78.0	10.19.01	Dyslipidaemia,
Type III (remnant) hyperlipoproteinaemia,	to 1	10.19.06	272.2	E78.0	10.19.01	Dyslipidaemia,
Familial defective apolipoprotein B,	to 1	10.19.07	272.5	E78.8	10.19.01	Dyslipidaemia,
Hypertriglyceridaemia,	to 1	10.19.03	272.1	E78.8	10.19.01	Dyslipidaemia,
Familial combined hyperlipidaemia,	to 1	10.19.04	272.4	E78.4	10.19.01	Dyslipidaemia,
Familial hyperchylomicronaemia,	to 1	10.19.08	272.3	E78.3	10.19.01	Dyslipidaemia,
Secondary dyslipidaemia,	to 1	10.19.09	272.4	E78.8	10.19.01	Dyslipidaemia,

End of branch

581 Noncardiac abnormalities or diseases associated or coexistent with heart disease

Thoraco-respiratory abnormalities associated or coexistent with heart disease	to 583	not relevant				
Gastrointestinal anomaly or disease associated or coexistent with heart disease	to 585	not relevant				
Renal anomaly or disease associated or coexistent with heart disease	to 587	not relevant				
Neurological anomaly or disease associated or coexistent with heart disease	to 589	not relevant				
Autoimmune, connective tissue and arteritic disease associated with vascular disease	to 591	not relevant				
Musculoskeletal abnormalities associated or coexistent with heart disease	to 593	not relevant				
Tumour associated with heart disease	to 727	not relevant				
Psychiatric and psychosocial disorders associated or coexistent with cardiovascular disease	to 595	not relevant				
Noncardiac abnormality associated with heart disease,	to 1	14.03.00	759.9	Q89.9	14.03.00	Noncardiac abnormality associated with heart disease,
Systemic disease associated or coexistent with heart disease,	to 1	14.03.56	429.9	E52.8	14.03.00	Noncardiac abnormality associated with heart disease,
Beta-thalassaemia syndrome,	to 1	14.03.20	282.4	D56.1	14.03.00	Noncardiac abnormality associated with heart disease,
Sickle cell anaemia,	to 1	14.03.21	282.6	D57	14.03.00	Noncardiac abnormality associated with heart disease,

Haemochromatosis,	to 1	14.03.57	275.0	E83.1	14.03.00	Noncardiac abnormality associated with heart disease,	
Congenital methaemoglobinemia,	to 1	14.03.22	289.7	D74.0	14.03.00	Noncardiac abnormality associated with heart disease,	
Hereditary hypercoagulopathic syndrome,	to 1	14.03.24	286.9	D68.8	14.03.00	Noncardiac abnormality associated with heart disease,	
Congenital coagulation disorder,	to 1	14.03.28	286.9	D68.8	14.03.28	Noncardiac coagulation disorder,	
Iron deficiency,	to 951	14.04.31	269.8	E61.1	14.03.00	Noncardiac abnormality associated with heart disease,	
Diabetes mellitus,	to 1	14.03.90	250.0	E14	14.03.90	Diabetes mellitus,	
Insulin dependent diabetes mellitus (Type I),	to 1	14.03.25	250.0	E10.9	14.03.90	Diabetes mellitus,	
Diabetes mellitus: non-insulin dependent (Type II),	to 1	14.03.51	250.0	E11.9	14.03.90	Diabetes mellitus,	
Cystic hygroma,	to 1	14.03.27	228.1	M9193	M9173	14.03.00	Noncardiac abnormality associated with heart disease,
Hypothyroidism,	to 951	14.03.52	244.9	E03.9	14.03.52	Hypothyroidism,	
Hyperthyroidism,	to 951	14.03.75	242.9	E05.9	14.03.75	Hyperthyroidism,	
Non-cardiothoracic-vascular abnormality,	to 1	14.03.04	759.8	O89.8	14.03.04	Non-cardiothoracic-vascular abnormality,	
Obesity (Body Mass Index over 30),	to 951	14.03.59	278.0	E66.9	14.03.59	Obesity (Body Mass Index over 30),	
Metabolic syndrome,	to 1	14.03.74	278.0	E66.8	14.03.00	Noncardiac abnormality associated with heart disease,	
Near drowning,	to 1	14.03.70	994.1	T75.1	14.03.00	Noncardiac abnormality associated with heart disease,	
Mass associated with limb,	to 1	14.03.71			14.03.04	Non-cardiothoracic-vascular abnormality,	
Sarcoidosis,	to 1	14.03.73	135	D86.9	14.03.00	Noncardiac abnormality associated with heart disease,	
HIV seropositivity,	to 1	14.03.76	079.4	Z21	14.03.00	Noncardiac abnormality associated with heart disease,	
Acquired Immune Deficiency Syndrome (AIDS),	to 1	14.03.77	279.1	B24	14.03.00	Noncardiac abnormality associated with heart disease,	
583 Thoracorespiratory abnormalities associated or coexistent with heart disease							
Lung arrangement and sequestration anomalies	to 21	not relevant					
Tracheobronchial congenital anomalies	to 22	not relevant					
Cystic fibrosis,	to 1	14.03.06	277	E84.9	14.03.06	Cystic fibrosis,	
Congenital diaphragmatic hernia,	to 951	14.03.07	756.6	Q79.0	14.03.07	Congenital diaphragmatic hernia,	
Tracheo-oesophageal fistula,	to 4042	not relevant					
Cystic congenital adenomatous malformation (CCAM) of the lung,	to 1	14.03.41	748.4	Q33.0	14.03.29	Thoracic-mediastinal abnormality,	
Alpha 1 antitrypsin deficiency,	to 1	14.03.69	277.6	E88.0	14.03.29	Thoracic-mediastinal abnormality,	
Tracheobronchial malacia,	to 3300	14.03.49	519.1	J98.0	14.03.49	Tracheobronchial malacia,	
Tracheomalacia,	to 1	14.03.67	519.1	J39.8	14.03.29	Thoracic-mediastinal abnormality,	
Bronchomalacia,	to 3300	14.03.66	748.6	Q32.2	14.03.29	Thoracic-mediastinal abnormality,	
Bronchomalacia: congenital,	to 3300	14.03.45	748.6	Q32.2	03.03.05	Tracheobronchial anomaly,	
Congenital lobar emphysema,	to 1	14.03.46	748.8	Q23.8	14.03.29	Thoracic-mediastinal abnormality,	
Choanal atresia,	to 1	14.03.47	748	Q30.0	14.03.47	Choanal atresia,	
Laryngomalacia,	to 1	14.03.48	478.7	Q31.8	14.03.29	Thoracic-mediastinal abnormality,	
Pulmonary lymphangiectasia,	to 1	14.03.50	518.8	J84.8	14.03.29	Thoracic-mediastinal abnormality,	
Sleep apnoea,	to 951	14.04.39	780.5	G47.3	14.03.00	Noncardiac abnormality associated with heart disease,	
Thoracic-mediastinal abnormality,	to 1	14.03.29	759.8	Q89.8	14.03.29	Thoracic-mediastinal abnormality,	
585 Gastrointestinal anomaly or disease associated or coexistent with heart disease							
Gastro-oesophageal reflux disease (GORD),	to 951	14.03.09	530.1	K21.9	14.03.09	Gastro-oesophageal reflux disease (GORD),	
Omphalocele,	to 1	14.03.10	553.1	Q79.2	14.03.10	Omphalocele,	
Congenital duodenal stenosis/atresia,	to 1	14.03.11	751.1	Q41.0	14.03.11	Duodenal stenosis/atresia,	
Biliary atresia,	to 1	14.03.12	751.6	Q44.2	14.03.04	Non-cardiothoracic-vascular abnormality,	
Intestines malrotated,	to 1	03.06.03	751.4	Q43.3	03.06.03	Intestines malrotated,	
Intestines malrotated with midgut volvulus,	to 1	03.06.05	751.4	Q43.3	03.06.03	Intestines malrotated,	
Intestines malrotated with duodenal obstruction,	to 1	03.06.06	751.4	Q43.3	03.06.03	Intestines malrotated,	
Intestines malrotated with internal herniation,	to 1	03.06.07	751.4	Q43.3	03.06.03	Intestines malrotated,	
Hirschsprung's disease,	to 1	14.03.13	751.3	Q43.1	14.03.04	Non-cardiothoracic-vascular abnormality,	
Anorectal anomaly,	to 1	14.03.14	751.2	Q42.9	14.03.00	Noncardiac abnormality associated with heart disease,	
Anal atresia,	to 1	14.03.53	751.2	Q42.3	14.03.00	Noncardiac abnormality associated with heart disease,	
Gastroschisis,	to 1	14.03.26	756.7	Q79.3	14.03.00	Noncardiac abnormality associated with heart disease,	
Inflammatory bowel disease,	to 1	14.03.54	558	K52.9	14.03.00	Noncardiac abnormality associated with heart disease,	
587 Renal anomaly or disease associated or coexistent with heart disease							
Renal abnormality,	to 951	14.03.23	753.9	Q64.9	14.03.23	Renal abnormality,	
Horseshoe kidney,	to 1	14.03.15	753.3	Q63.1	14.03.23	Renal abnormality,	
Congenital hydronephrosis,	to 1	14.03.16	753.2	Q62.0	14.03.23	Renal abnormality,	
Renal hypoplasia/agenesis,	to 1	14.03.03	753.0	Q60	14.03.23	Renal abnormality,	
Renal arterial stenosis,	to 1	14.03.17	747.6	Q27.1	14.03.23	Renal abnormality,	
Renal cystic dysplasia,	to 1	14.03.18	753.1	Q61.4	14.03.23	Renal abnormality,	
Polycystic kidney disease,	to 1	14.03.19	753.1	Q61.3	14.03.23	Renal abnormality,	
Vesicoureteral reflux,	to 1	14.03.55	593.7	N13.7	14.03.23	Renal abnormality,	
Renal failure (insufficiency),	to 951	14.04.30	586	N19	14.03.23	Renal abnormality,	
589 Neurological anomaly or disease associated or coexistent with heart disease							
Cerebrovascular disease,	to 590	not relevant					
Psychomotor developmental delay,	to 951	14.03.05	315.5	F79	14.03.05	Psychomotor developmental delay,	
Anoxic-ischaemic encephalopathy,	to 1800	14.03.72	348.1	G93.1	14.03.72	Anoxic-ischaemic encephalopathy,	
Cerebral birth injury,	to 1	14.04.48	769.9	P11.2	14.03.91	Cerebral anomaly,	
Anencephaly,	to 1	14.03.31	740	Q00.0	14.03.00	Noncardiac abnormality associated with heart disease,	
Agenesis of corpus callosum,	to 1	14.03.32	742.2	Q04.0	14.03.00	Noncardiac abnormality associated with heart disease,	
Microcephaly,	to 1	14.03.33	742.1	Q02	14.03.33	Microcephaly,	
Seizure disorder,	to 951	14.03.34	345.9	G40.9	14.03.04	Non-cardiothoracic-vascular abnormality,	
Deafness,	to 951	14.03.35	389.9	H91.9	14.03.04	Non-cardiothoracic-vascular abnormality,	
Blindness,	to 951	14.03.36	369.9	H54.0	14.03.04	Non-cardiothoracic-vascular abnormality,	
Cerebral anomaly,	to 1	14.03.91	742.9	Q04.9	14.03.91	Cerebral anomaly,	
Hydrocephalus,	to 1	14.03.37	742.3	Q03.9	14.03.04	Non-cardiothoracic-vascular abnormality,	
Holoprosencephaly,	to 1	14.03.38	742.4	Q04.2	14.03.04	Non-cardiothoracic-vascular abnormality,	
Spina bifida,	to 1	14.03.39	741.9	Q05.9	14.03.04	Non-cardiothoracic-vascular abnormality,	
Brain abscess,	to 627	14.03.40	324.0	G06.0	14.03.40	Brain abscess,	
Mycobacteria gravis,	to 1	14.03.89	358.0	G70.0	14.03.00	Noncardiac abnormality associated with heart disease,	
Encephalopathy,	to 1	15.82.79	997.0	G92.4	15.82.50	Neurological complication after cardiac procedure,	
Migraine,	to 951	14.04.46	346.9	G43.9	14.04.46	Migraine,	
Diver's decompression sickness,	to 1	14.04.47	993.3	T70.3	14.04.47	Diver's decompression sickness,	
590 Cerebrovascular disease							
Cerebrovascular disease,	to 1	14.03.96	437.9	I67.9	14.03.00	Noncardiac abnormality associated with heart disease,	
Postprocedural cerebral vascular disease or events	to 1991	not relevant					
Transient ischaemic attack: less than 24 hours (TIA),	to 1	14.03.44	435	G45.9	14.03.44	Transient ischaemic attack: less than 24 hours (TIA),	
Reversible ischaemic neurologic deficit: 24-72 hours (RIND),	to 1	14.03.97	435	G45.8	14.03.97	Reversible ischaemic neurologic deficit: 24-72 hours (RIND),	
Cerebral ischaemia,	to 1	14.03.98	437.1	I67.8	14.03.00	Noncardiac abnormality associated with heart disease,	
Cerebral ischaemia: chronic,	to 1	14.03.99	437.1	I67.8	14.03.00	Noncardiac abnormality associated with heart disease,	
Cerebrovascular accident (stroke),	to 1	14.03.42	436	I64	14.03.42	Cerebrovascular accident (stroke),	
Cerebrovascular accident (stroke): thrombotic,	to 1	14.03.93	434.0	I63.9	14.03.42	Cerebrovascular accident (stroke),	
Cerebrovascular accident (stroke): embolic,	to 1	14.03.94	434.1	I66.9	14.03.42	Cerebrovascular accident (stroke),	
Cerebrovascular accident (stroke): haemorrhagic,	to 1	14.03.95	432.9	I61.9	14.03.42	Cerebrovascular accident (stroke),	
Cerebral event due to paradoxical embolus,	to 1	14.03.43	434.1	I66.9	14.03.42	Cerebrovascular accident (stroke),	
Cerebral atherosclerosis,	to 1	14.04.40	437.0	I67.2	14.03.00	Noncardiac abnormality associated with heart disease,	
Cerebral aneurysm,	to 1	14.04.41	437.3	I67.1	14.03.00	Noncardiac abnormality associated with heart disease,	
Cerebral aneurysm: congenital,	to 1	14.03.30	747.8	Q28.3	14.03.00	Noncardiac abnormality associated with heart disease,	
Cerebral aneurysm: nonruptured,	to 1	14.04.42	437.3	I67.1	14.03.00	Noncardiac abnormality associated with heart disease,	
Cerebral aneurysm: ruptured,	to 1	14.04.43	430	I60.9	14.03.00	Noncardiac abnormality associated with heart disease,	
Intracerebral haemorrhage,	to 1	14.04.44	430	I61.9	14.03.00	Noncardiac abnormality associated with heart disease,	
Subarachnoid haemorrhage,	to 1	14.04.45	431	I60.9	14.03.00	Noncardiac abnormality associated with heart disease,	
Subarachnoid haemorrhage from ruptured aneurysm,	to 1	15.82.62	430	I60.7	14.03.00	Noncardiac abnormality associated with heart disease,	
591 Autoimmune, connective tissue and arteritic disease associated with vascular disease							
Autoimmune disease associated with heart disease,	to 1	14.03.80	710.9	M35.9	14.03.92	Connective tissue disease,	
Connective tissue disease,	to 1	14.03.92	710.9	M35.9	14.03.92	Connective tissue disease,	
Systemic lupus erythematosus (SLE),	to 1	14.02.80	710.0	M32.9	14.03.92	Connective tissue disease,	
Scleroderma,	to 1	14.03.82	710.1	M34.9	14.03.92	Connective tissue disease,	
Polyarteritis nodosa,	to 1	14.03.83	710.4	M30.0	10.14.60	Systemic arteritis,	
Dermato(poly)myositis,	to 1	14.03.84	710.3	M33.9	14.03.92	Connective tissue disease,	
Polymyositis,	to 1	10.03.93	710.4	M33.2	10.14.60	Systemic arteritis,	
Mixed connective tissue disease (vasculitis),	to 1	10.03.94	710.8	M35.1	10.14.60	Systemic arteritis,	
Sjogren's (sicca) syndrome,	to 1	10.03.95	710.2	M35.0	10.14.60	Systemic arteritis,	
Behcet's disease,	to 1	14.03.85	136.1	M35.2	10.14.60	Systemic arteritis,	
Juvenile idiopathic arthritis (Juvenile Chronic Arthritis),	to 1	14.02.79	714.3	M08.9	14.03.92	Connective tissue disease,	
Ankylosing spondylitis,	to 1	14.03.87	720.0	M45	14.03.92	Connective tissue disease,	
Reiter's disease,	to 1	14.03.88	99.4	M02.3	14.03.00	Noncardiac abnormality associated with heart disease,	
Kawasaki disease,	to 671	10.09.01	446.1	M30.3	10.09.01	Kawasaki disease,	
Takayasu's arteritis,	to 600	10.14.61	446.7	M31.4	10.14.60	Systemic arteritis,	
Giant cell arteritis,	to 600	10.14.62	446.5	M31.6	10.14.60	Systemic arteritis,	
Autoimmune disease,	to 600	14.03.81	710.9	M35.9	14.03.00	Noncardiac abnormality associated with heart disease,	
593 Musculoskeletal abnormalities associated or coexistent with heart disease							
Skeletal abnormality,	to 1	14.04.01	756.9	Q79	14.03.00	Noncardiac abnormality associated with heart disease,	
Cleft lip or palate,	to 1	14.04.12	749.2	Q07	14.04.12	Cleft lip or palate,	
Absent radius,	to 1	14.04.02	755.2	Q71.4	14.03.00	Noncardiac abnormality associated with heart disease,	
Polydactyly,	to 1	14.04.06	755	Q69.9	14.03.00	Noncardiac abnormality associated with heart disease,	
Syndactyly,	to 1	14.04.10	755.1	Q70.9	14.03.00	Noncardiac abnormality associated with heart disease,	
Anterior chest wall (pectus) deformity,	to 594	14.04.14	754.8	Q67.8	14.04.14	Anterior chest wall (pectus) deformity,	
Pectus carinatum,	to 594	14.04.04	754.8	Q67.7	14.04.04	Pectus carinatum,	
Pectus excavatum,	to 594	14.04.05	754.8	Q67.6	14.04.05	Pectus excavatum,	

Pectus carinatum & excavatum deformity,	to 594	14.04.19	754.8	Q67.8	14.04.14	Anterior chest wall (pectus) deformity,
Rib anomalies,	to 1	14.04.08	756.3	Q76.6	14.03.29	Thoracic-mediastinal abnormality,
Kyphoscoliosis,	to 1	14.04.09	756.1	Q67.5	14.04.09	Kyphoscoliosis,
Scoliosis,	to 1	14.04.15	756.1	Q67.5	14.04.09	Kyphoscoliosis,
Kyphosis,	to 1	14.04.17	756.1	Q76.4	14.04.09	Kyphoscoliosis,
Kyphosis: pubertal growth related (Scheuermann),	to 1	14.04.18	756.1	Q76.4	14.04.09	Kyphoscoliosis,
Hemivertebra,	to 1	14.04.13	756.1	Q76.4	14.03.00	Noncardiac abnormality associated with heart disease,
Club foot (talipes),	to 1	14.04.03	754.7	Q66.8	14.03.00	Noncardiac abnormality associated with heart disease,
Sternal cleft (bifid sternum) (sternal fissure),	to 594	14.04.16	754.8	Q76.7	14.03.29	Thoracic-mediastinal abnormality,
Musculoskeletal abnormality,	to 1	14.04.11	756.9	Q79	14.03.00	Noncardiac abnormality associated with heart disease,
Carpal tunnel syndrome,	to 1	14.04.20	354.0	Q56.0	14.03.04	Non-cardiothoracic-vascular abnormality,

594 @ Anterior chest wall (pectus) deformity characteristics & symptoms - qualifiers

- mild,	to 1	Q1.40.01				not relevant
- moderate,	to 1	Q1.40.03				not relevant
- severe,	to 1	Q1.40.05				not relevant
- partial-incomplete chest wall deformity,	to 1	Q1.14.00				not relevant
- incomplete chest wall deformity: inferior,	to 1	Q1.14.01				not relevant
- incomplete chest wall deformity: mid sternal,	to 1	Q1.14.09				not relevant
- incomplete chest wall deformity: superior,	to 1	Q1.14.02				not relevant
- complete,	to 1	Q1.90.71				not relevant
- recurrent,	to 1	Q1.90.72				not relevant
- residual,	to 1	Q1.90.54				not relevant
- chest wall deformity with impaired pulmonary function,	to 1	Q1.14.03				not relevant
- asymmetric chest wall deformity,	to 1	Q1.14.04				not relevant
- asymmetric chest wall deformity: dominant left side,	to 1	Q1.14.05				not relevant
- asymmetric chest wall deformity: dominant right side,	to 1	Q1.14.06				not relevant
- status: postrepair,	to 1	Q1.90.74				not relevant
- status postrepair: bar malposition,	to 1	Q1.14.07				not relevant
- status postrepair: ready for bar removal,	to 1	Q1.14.08				not relevant
no entry	to 1	not relevant				not relevant

595 Psychiatric and psychosocial disorders associated or coexistent with cardiovascular disease

Psychiatric disorder,	to 951	14.04.60	300.9	F99	14.03.00	Noncardiac abnormality associated with heart disease,
Psychomotor developmental delay,	to 951	14.03.05	315.5	F79	14.03.05	Psychomotor developmental delay,
Anorexia nervosa,	to 1	14.03.59	307.1	F500	14.03.00	Noncardiac abnormality associated with heart disease,
Depression,	to 951	14.04.61	311	F32.9	14.03.00	Noncardiac abnormality associated with heart disease,
Schizophrenia,	to 951	14.04.62	295.9	F20.9	14.03.00	Noncardiac abnormality associated with heart disease,
Affective disorder,	to 951	14.04.63	296.9	F39	14.03.00	Noncardiac abnormality associated with heart disease,
Autistic spectrum disorder,	to 951	14.04.64	299.0	F84.0	14.03.00	Noncardiac abnormality associated with heart disease,
Attention deficit hyperactivity disorder (ADHD),	to 951	14.04.65	314.9	F90.0	14.03.00	Noncardiac abnormality associated with heart disease,
Substance abuse,	to 951	14.04.67	V15.8	Z91.8	14.03.00	Noncardiac abnormality associated with heart disease,
Smoking: tobacco use,	to 1	14.04.70	V15.8	Z72.0	14.04.70	Smoking: tobacco use,
Non-compliance with therapy,	to 951	14.04.68	V15.8	Z91.1	14.03.00	Noncardiac abnormality associated with heart disease,
Non-compliance with drug therapy,	to 951	14.04.69	V15.8	Z91.1	14.03.00	Noncardiac abnormality associated with heart disease,
Needle phobia,	to 951	14.04.66	300.2	F40.2	14.03.00	Noncardiac abnormality associated with heart disease,

END OF SECTION

600 Cardiothoracic acquired abnormalities and diseases

Cardiac infections and rheumatic disease	to 610	not relevant				
Acquired venous abnormalities	to 630	not relevant				
Acquired atrial abnormalities	to 635	not relevant				
Acquired valvar abnormalities	to 640	not relevant				
Acquired ventricular, subaortic & subpulmonary abnormalities	to 650	not relevant				
Heart muscle disease & cardiomyopathies	to 655	not relevant				
Acquired coronary arterial disease	to 670	not relevant				
Acquired common arterial trunk abnormalities	to 679	not relevant				
Acquired pulmonary arterial abnormalities & pulmonary hypertension	to 680	not relevant				
Acquired aorto-pulmonary window and abnormalities	to 689	not relevant				
Acquired aortic and systemic arterial abnormalities	to 690	not relevant				
Acquired pericardial abnormalities	to 705	not relevant				
Traumatic injuries of heart, great vessels and lungs	to 710	not relevant				
Heart tumours	to 720	not relevant				
Lung and thoracic disease	to 4000	not relevant				
Syncope and hypotensive disorders	to 750	not relevant				
Acquired cardiac conduit & shunt abnormalities	to 2200	not relevant				
Cardiac thrombus,	to 601	10.02.00	410	I21.9	01.01.39	Cardiac abnormality,
Carditis,	to 1	10.02.01	429.8	I51.8	01.01.39	Cardiac abnormality,
Heart used for organ donation,	to 1	10.02.10				no equivalent
Vasculitis,	to 600	10.77.00	447.6	I77.6		
Residual or recurrent cardiac lesion,	to 600	10.02.02	429.8	I51.8	01.01.39	Cardiac abnormality,

601 @ Cardiac thrombus & vegetation qualifiers

- single,	to 3205	Q1.07.01				not relevant
- multiple,	to 3205	Q1.07.02				not relevant
- infected,	to 3205	Q1.40.69				not relevant
- infected: positive thrombus cultures,	to 3205	Q1.07.03				not relevant
- infected: positive vegetation cultures,	to 3205	Q1.07.04				not relevant
- infected: positive blood cultures,	to 3205	Q1.07.05				not relevant
- sterile,	to 3205	Q1.07.06				not relevant
- sterile: previously positive cultures (now negative),	to 3205	Q1.07.07				not relevant
- sterile: no history of positive cultures,	to 3205	Q1.07.08				not relevant
no entry	to 3205	not relevant				not relevant

610 Cardiac infections and rheumatic disease

Rheumatic heart disease	to 611	not relevant				
Rheumatic valvar disease	to 612	not relevant				
Infective endocarditis and associated organisms	to 615	not relevant				
Site of infective endocarditis	to 616	not relevant				
Heart abscess	to 617	not relevant				
Infectious myocarditis and associated organisms	to 620	not relevant				
Infectious pericarditis and associated organisms	to 625	not relevant				
Cardiac vegetation,	to 601	10.05.00	421.0	I33.0	01.01.39	Cardiac abnormality,

611 Rheumatic heart disease

Rheumatic disease,	to 1	10.05.24	397	I09.9	10.05.01	Acute rheumatic fever,
Rheumatic heart disease,	to 1	10.05.25	397	I09.9	10.05.21	Rheumatic fever with cardiac involvement,
Rheumatic fever,	to 1	10.05.26	390	I00.X	10.05.01	Acute rheumatic fever,
Acute rheumatic fever,	to 1	10.05.01	390	I00	10.05.01	Acute rheumatic fever,
Rheumatic fever without cardiac involvement,	to 1	10.05.20	390	I00	10.05.01	Acute rheumatic fever,
Rheumatic fever with cardiac involvement,	to 1	10.05.21	391	I01	10.05.21	Rheumatic fever with cardiac involvement,
Rheumatic endocarditis,	to 1	10.05.27	391.1	I01.1	10.05.21	Rheumatic fever with cardiac involvement,
Acute rheumatic endocarditis,	to 1	10.05.02	391.1	I01.1	10.05.21	Rheumatic fever with cardiac involvement,
Rheumatic myocarditis,	to 1	10.05.28	397	I09.0	10.05.21	Rheumatic fever with cardiac involvement,
Acute rheumatic myocarditis,	to 1	10.05.03	391.2	I01.2	10.05.21	Rheumatic fever with cardiac involvement,
Rheumatic pericarditis,	to 1	10.05.04	391	I01.0	10.05.21	Rheumatic fever with cardiac involvement,
Rheumatic pericarditis: acute,	to 1	10.05.29	391	I01.0	10.05.21	Rheumatic fever with cardiac involvement,
Rheumatic pericarditis: chronic,	to 1	10.05.35	391	I01.2	10.05.21	Rheumatic fever with cardiac involvement,
Rheumatic pancarditis,	to 1	10.05.06	398.9	I01.6	10.05.21	Rheumatic fever with cardiac involvement,
Rheumatic heart failure,	to 1	10.05.36	397	I09.9	10.05.21	Rheumatic fever with cardiac involvement,
Rheumatic heart failure: congestive,	to 1	10.05.37	397	I09.9	10.05.21	Rheumatic fever with cardiac involvement,
Rheumatic chorea,	to 1	10.05.22	392	I02	10.05.01	Acute rheumatic fever,
Rheumatic joint disease,	to 1	10.05.23	716.9	I00	10.05.01	Acute rheumatic fever,

612 Rheumatic valvar disease

Rheumatic valvar disease,	to 1	10.05.30	397.9	I09.1	10.05.30	Rheumatic valvar disease,
Rheumatic mitral valvar disease,	to 1	10.05.31	394.9	I05.9	10.05.31	Rheumatic mitral valvar disease,
Rheumatic mitral regurgitation,	to 963	10.05.07	394.1	I05.1	10.33.04	Mitral regurgitation: acquired,
Rheumatic mitral stenosis,	to 960	10.05.08	394	I05.0	10.33.02	Mitral valvar stenosis: acquired,
Rheumatic tricuspid valvar disease,	to 1	10.05.32	397.0	I07.9	10.05.30	Rheumatic valvar disease,
Rheumatic tricuspid regurgitation,	to 963	10.05.09	397	I07.1	06.01.91	Tricuspid regurgitation,
Rheumatic tricuspid stenosis,	to 960	10.05.10	397	I07.0	06.01.92	Tricuspid stenosis,
Rheumatic aortic valvar disease,	to 1	10.05.33	395.9	I06.9	10.05.33	Rheumatic aortic valvar disease,
Rheumatic aortic regurgitation,	to 963	10.05.11	395.1	I06.1	10.36.04	Aortic regurgitation: acquired,
Rheumatic aortic stenosis,	to 960	10.05.12	395	I06.0	10.36.02	Aortic valvar stenosis: acquired,
Rheumatic pulmonary valvar disease,	to 1	10.05.34	397.1	I09.8	10.05.30	Rheumatic valvar disease,
Rheumatic pulmonary regurgitation,	to 963	10.05.13	397.1	I09.8	10.35.04	Pulmonary regurgitation: acquired,
Rheumatic pulmonary stenosis,	to 960	10.05.14	397.1	I09.8	10.35.02	Pulmonary valvar stenosis: acquired,

615 Infective endocarditis and associated organisms

Endocarditis,	to 616	10.06.00	421.0	83.0	10.06.00	Endocarditis,
Noninfective endocarditis,	to 3205	10.06.59	421.9	83.0	10.06.00	Endocarditis,
Acute endocarditis,	to 616	10.06.53	421.0	83.0	10.06.01	Infective endocarditis,
Infective endocarditis,	to 616	10.06.01	421.0	83.0	10.06.01	Infective endocarditis,
Acute infective endocarditis,	to 616	10.06.02	421	83.9	10.06.01	Infective endocarditis,
Subacute infective endocarditis,	to 616	10.06.03	421	83.0	10.06.01	Infective endocarditis,
Postprocedural endocarditis,	to 616	10.06.64	421	83.0	10.06.64	Postprocedural endocarditis,
Preprocedural endocarditis,	to 616	10.06.65	421	83.0	10.06.65	Preprocedural endocarditis,
Bacterial endocarditis,	to 616	10.06.41	421	83.0	10.06.41	Bacterial endocarditis,
Streptococcal endocarditis,	to 616	10.06.61	421.0 41.0	83.0 B95.5	10.06.41	Bacterial endocarditis,
Staphylococcal endocarditis,	to 616	10.06.62	421.0 41.1	83.0 B95.8	10.06.41	Bacterial endocarditis,
Fungal endocarditis,	to 616	10.06.42	421.1 117.9	83.0 B49	10.06.01	Infective endocarditis,
Cardial endocarditis,	to 616	10.06.63	112.8† 421.1*	876.6† 89.8*	10.06.01	Infective endocarditis,
Rickettsial endocarditis,	to 616	10.06.43	421.1 83.0	83.0 A78	10.06.01	Infective endocarditis,
Chlamydial endocarditis,	to 616	10.06.44	421.1 78.8	83.0 A74.9	10.06.01	Infective endocarditis,
Culture negative endocarditis,	to 616	10.06.45	424.9	88	10.06.01	Infective endocarditis,
Viral endocarditis,	to 616	10.06.52	421 79.9	83.0 B33.2	10.06.01	Infective endocarditis,
Non bacterial thrombotic (marantic) endocarditis,	to 616	10.06.51	424.9	88	10.06.01	Infective endocarditis,
Ventricular septal defect (VSD): acquired due to endocarditis,	to 288	10.16.64	429.8 421	81.0 83.0	10.10.00	Ventricular septal defect (VSD),
Fistula due to endocarditis,	to 616	10.06.54	421	83.9	10.06.01	Infective endocarditis,
Atrioventricular block due to endocarditis,	to 850	11.06.36	426.9 421	45.9 83.0	11.06.00	Conduction disturbance,
Arrhythmia due to endocarditic vegetations,	to 616	11.00.10	427.9 421	49.9 83.0	11.00.00	Arrhythmia,
Infective endocarditis related abnormality,	to 1	10.05.17	746.8	824.8	01.01.39	Cardiac abnormality,
Infection type & inflammation qualifiers	to 627	not relevant				

616 Site of infective endocarditis-vegetations

Infective endocarditis of cardiac valve	to 618	not relevant			10.06.01	Infective endocarditis,
Infective endocarditis of right ventricular wall,	to 627	10.06.15	421.9	83.0	10.06.01	Infective endocarditis,
Infective endocarditis of left ventricular wall,	to 627	10.06.16	421.9	83.0	10.06.01	Infective endocarditis,
Infective endarteritis of arterial duct,	to 627	10.06.18	447.6	77.6	10.06.01	Infective endocarditis,
Infective endocarditis at site of ventricular septal defect (VSD),	to 627	10.06.46	421.9	83.0	10.06.01	Infective endocarditis,
Infective endocarditis of ventricular septal defect (VSD) patch,	to 627	10.02.89	421.9	83.0	10.06.01	Infective endocarditis,
Infective endarteritis at site of aortic coarctation,	to 627	10.06.47	447.6	77.6	10.06.01	Infective endocarditis,
Infective endarteritis at site of aorto-pulmonary window,	to 627	10.02.85	421.9	83.0	10.06.01	Infective endocarditis,
Infective endarteritis of aorta (aortitis),	to 627	10.06.55	421.9	83.0	10.06.01	Infective endocarditis,
Infective endocarditis at site of interatrial communication (ASD),	to 627	10.06.56	421.9	83.0	10.06.01	Infective endocarditis,
Infective endocarditis of interatrial communication (ASD) patch,	to 627	10.06.57	421.9	83.0	10.06.01	Infective endocarditis,
Infective endocarditis of homograft,	to 627	10.06.05	996.6	782.7	10.06.01	Infective endocarditis,
Infective endocarditis of heterograft,	to 627	10.06.06	996.6	782.7	10.06.01	Infective endocarditis,
Early prosthetic valve infective endocarditis (under 60 days),	to 627	10.06.07	996.6	782.6	10.06.01	Infective endocarditis,
Late prosthetic valve infective endocarditis (over 60 days),	to 627	10.06.48	996.6	782.6	10.06.01	Infective endocarditis,
Infective endocarditis of applied vascular shunt,	to 2240	10.06.49	996.6	782.7	10.06.01	Infective endocarditis,
Infective endocarditis of vascular conduit,	to 2240	10.06.50	996.6	782.7	10.06.01	Infective endocarditis,

617 Heart abscess

Abscess,	to 627	10.06.70	682.9	102.9		
Postprocedural cardiac abscess formation,	to 627	10.06.71	429.8	81.8	10.06.20	Heart abscess,
Postprocedural cardiac abscess formation: perivalvar,	to 627	10.06.72	429.8	81.8	10.06.20	Heart abscess,
Heart abscess,	to 627	10.06.20	429.8	81.8	10.06.20	Heart abscess,
Tricuspid valvar abscess,	to 627	10.06.21	429.8	81.8	10.06.20	Heart abscess,
Mitral valvar abscess,	to 627	10.06.22	429.8	81.8	10.06.20	Heart abscess,
Right atrioventricular valvar abscess,	to 627	10.06.23	429.8	81.8	10.06.20	Heart abscess,
Left atrioventricular valvar abscess,	to 627	10.06.24	429.8	81.8	10.06.20	Heart abscess,
Common atrioventricular valvar abscess,	to 627	10.06.25	429.8	81.8	10.06.20	Heart abscess,
Pulmonary valvar abscess,	to 627	10.06.26	429.8	81.8	10.06.20	Heart abscess,
Aortic valvar abscess,	to 627	10.06.27	429.8	81.8	10.06.20	Heart abscess,
Truncal valvar abscess,	to 627	10.06.34	429.8	81.8	10.06.20	Heart abscess,
Abscess at site of interatrial communication (ASD),	to 627	10.06.37	422.9	81.8	10.06.20	Heart abscess,
Abscess in right ventricular wall,	to 627	10.06.29	422.9	81.8	10.06.20	Heart abscess,
Abscess in left ventricular wall,	to 627	10.06.30	422.9	81.8	10.06.20	Heart abscess,
Abscess at site of arterial duct,	to 627	10.06.28	447.2	77.2	10.06.20	Heart abscess,
Abscess at site of ventricular septal defect (VSD),	to 627	10.06.35	422.9	81.8	10.06.20	Heart abscess,
Abscess at site of aortic coarctation,	to 627	10.06.36	447.2	77.2	10.06.20	Heart abscess,
Abscess in common trunk wall,	to 627	10.06.40	422.9	81.8	10.06.20	Heart abscess,
Abscess at site of systemic-to-pulmonary arterial shunt,	to 2240	10.06.37	996.6	782.7	10.06.20	Heart abscess,
Abscess of homograft,	to 627	10.06.31	996.6	782.7	10.06.20	Heart abscess,
Abscess of heterograft,	to 627	10.06.32	996.6	782.7	10.06.20	Heart abscess,
Prosthetic cardiac valvar abscess,	to 627	10.06.33	996.6	782.6	10.06.20	Heart abscess,
Abscess of vascular conduit,	to 627	10.06.38	996.6	782.7	10.06.20	Heart abscess,
Heart abscess related abnormality,	to 1	10.06.39	746.8	824.8	01.01.39	Cardiac abnormality,

618 Infective endocarditis of cardiac valve

Infective endocarditis of cardiac valve,	to 627	10.06.58	421.9	83.0	10.06.01	Infective endocarditis,
Infective endocarditis of tricuspid valve,	to 627	10.06.08	421.9	83.0	10.06.01	Infective endocarditis,
Infective endocarditis of pulmonary valve,	to 627	10.06.09	421.9	83.0	10.06.01	Infective endocarditis,
Infective endocarditis of mitral valve,	to 627	10.06.10	421.9	83.0	10.06.01	Infective endocarditis,
Infective endocarditis of aortic valve,	to 627	10.06.11	421.9	83.0	10.06.01	Infective endocarditis,
Infective endocarditis of right atrioventricular valve,	to 627	10.06.12	421.9	83.0	10.06.01	Infective endocarditis,
Infective endocarditis of left atrioventricular valve,	to 627	10.06.13	421.9	83.0	10.06.01	Infective endocarditis,
Infective endocarditis of common atrioventricular valve,	to 627	10.06.14	421.9	83.0	10.06.01	Infective endocarditis,
Infective endocarditis of truncal valve,	to 627	10.06.19	421.9	83.0	10.06.01	Infective endocarditis,

620 Infectious myocarditis and associated organisms

Septic myocarditis,	to 972	10.07.00	422.9	40.0	10.07.01	Infectious myocarditis,
Infectious myocarditis,	to 972	10.07.01	422.9	40.0	10.07.01	Infectious myocarditis,
Infectious myocarditis with no organism identified,	to 972	10.07.02	422.9	40.0	10.07.01	Infectious myocarditis,
Viral myocarditis,	to 972	10.07.03	422.9 79.9	40.0 B33.2	10.07.03	Viral myocarditis,
Bacterial myocarditis,	to 972	10.07.04	422.9 41.9	40.0 B96.8	10.07.01	Infectious myocarditis,
Diphtheria myocarditis,	to 972	10.07.18	032.8† 422.0*	A36.8† 41.0*	10.07.01	Infectious myocarditis,
Pneumococcal myocarditis,	to 972	10.07.19	422.9 41.2	41.0 B95.3	10.07.01	Infectious myocarditis,
Fungal myocarditis,	to 972	10.07.07	422.9 117.9	41.2 B49	10.07.01	Infectious myocarditis,
Cardial myocarditis,	to 972	10.07.20	422.9 112.8	41.2 B37.8	10.07.01	Infectious myocarditis,
Aspergillus myocarditis,	to 972	10.07.21	422.9 117.3	41.2 B44.8	10.07.01	Infectious myocarditis,
Typanosomal myocarditis (Chagas' disease),	to 972	10.07.08	86.0† 425.5*	B57.2† 41.2*	10.07.08	Typanosomal myocarditis (Chagas' disease),
Protozoal myocarditis (not Chagas'),	to 972	10.07.09	422.9 136.9	40.0 B89	10.07.01	Infectious myocarditis,
Rickettsial myocarditis,	to 972	10.07.10	422.9 83.9	40.0 A79.9	10.07.01	Infectious myocarditis,
HIV induced myocarditis,	to 972	10.07.13	422.9 79.4	40.0 B23.8	10.07.03	Viral myocarditis,
Toxoplasma myocarditis,	to 972	10.07.14	130† 422.0*	B58.8† 41.2*	10.07.03	Viral myocarditis,
Coxsackie virus myocarditis,	to 972	10.07.15	74.2† 422.0*	B33.2† 41.1*	10.07.03	Viral myocarditis,
Influenza myocarditis,	to 972	10.07.16	487.8† 422.0*	J10.8† 41.1*	10.07.03	Viral myocarditis,
Echovirus myocarditis,	to 972	10.07.22	422.9 79.1	41.1 B97.1	10.07.03	Viral myocarditis,
Adenovirus myocarditis,	to 972	10.07.23	422.9 79	41.1 B97.0	10.07.03	Viral myocarditis,
Rubella myocarditis,	to 972	10.07.24	422.9 56.8	41.1 B06.8	10.07.03	Viral myocarditis,
Meningococcal myocarditis,	to 972	10.07.17	36.4† 422.0*	A39.5† 41.0*	10.07.01	Infectious myocarditis,
Spirochetal myocarditis,	to 972	10.07.25	422.9 104.9	41.0 A69.9	10.07.01	Infectious myocarditis,
Syphilitic myocarditis,	to 972	10.07.26	093.8† 422.0*	A52.0† 41.0*	10.07.01	Infectious myocarditis,
Borrelia myocarditis (including Lyme disease),	to 972	10.07.27	422.9 104.8	41.0 A69.2	10.07.01	Infectious myocarditis,
Infectious myocarditis related abnormality,	to 1	10.07.06	746.8	824.8	01.01.39	Cardiac abnormality,

625 Infectious pericarditis and associated organisms

Infectious pericarditis,	to 627	10.08.01	420.9	80.1	10.08.01	Infectious pericarditis,
Constrictive pericarditis: infectious,	to 627	10.08.72	423.2	81.1	10.08.09	Constrictive pericarditis,
Infectious pericarditis with no organism identified,	to 1	10.08.17	420.9	80.1	10.08.01	Infectious pericarditis,
Viral pericarditis,	to 628	10.08.03	420.9 79.9	80.1 B33.2	10.08.03	Viral pericarditis,
Viral pericarditis with effusion,	to 628	10.08.46	420.9 79.9	80.1 B33.2	10.08.03	Viral pericarditis,
Viral pericarditis: constrictive,	to 628	10.08.47	420.9 79.9	80.1 B33.2	10.08.03	Viral pericarditis,
Viral pericarditis: Coxsackie,	to 1	10.08.49	420.9 74.2	80.1 B33.2	10.08.03	Viral pericarditis,
Bacterial pericarditis,	to 1	10.08.04	420.9 41.9	80.1 B96.8	10.08.04	Bacterial pericarditis,
Bacterial pericarditis: constrictive,	to 1	10.08.67	423.2 41.9	81.1 B96.8	10.08.04	Bacterial pericarditis,
Staphylococcal pericarditis,	to 1	10.08.41	420.9 41.1	80.1 B95.8	10.08.04	Bacterial pericarditis,
Streptococcal pericarditis,	to 1	10.08.42	420.9 41.0	80.1 B95.5	10.08.04	Bacterial pericarditis,
Pneumococcal pericarditis,	to 1	10.08.43	420.9 41.2	80.1 B95.3	10.08.04	Bacterial pericarditis,
Haemophilus pericarditis,	to 1	10.08.44	420.9 41.5	80.1 B96.3	10.08.04	Bacterial pericarditis,
Meningococcal pericarditis,	to 1	10.08.45	36.4† 420.0*	A39.5† 82.0*	10.08.04	Bacterial pericarditis,
Tuberculous pericarditis,	to 1	10.08.05	17.8† 420.0*	A18.8† 82.0*	10.08.04	Bacterial pericarditis,
Tuberculous pericarditis with effusion,	to 1	10.08.48	17.8† 420.0*	A18.8† 82.0*	10.08.04	Bacterial pericarditis,
Tuberculous pericarditis: constrictive,	to 1	10.08.68	17.8† 423.2	A18.8† 81.1	10.08.09	Constrictive pericarditis,
Fungal pericarditis,	to 1	10.08.18	420.9 117.9	82.1 B49	10.08.01	Infectious pericarditis,
Parasitic pericarditis,	to 1	10.08.19	420.9 136.9	80.1 B89	10.08.01	Infectious pericarditis,
Infectious pericarditis related abnormality,	to 1	10.08.20	746.8	824.8	01.01.39	Cardiac abnormality,

627 @ Infection & inflammation qualifiers

- bacterial,	to 1	Q1.61.00	041.9	B96.8	not relevant
Non-bacterial infection qualifiers	to 628	not relevant			
- staphylococcal,	to 1	Q1.61.01	041.1	B95.8	not relevant
- staphylococcus aureus,	to 1	Q1.61.20	041.1	B95.8	not relevant
- staphylococcus: methicillin resistant (MRSA) positive,	to 1	Q1.61.12	041.1	B95.8	not relevant
- staphylococcal: methicillin resistant (MRSA) negative,	to 1	Q1.61.13	041.1	B95.8	not relevant
- staphylococcus epidermidis,	to 1	Q1.61.21	041.1	B95.8	not relevant
- streptococcal,	to 1	Q1.61.02	41.0	B95.5	not relevant
- streptococcal: viridans,	to 1	Q1.61.24	41.0	B95.5	not relevant
- pneumococcal,	to 1	Q1.61.03	041.2	B95.3	not relevant
- haemophilus,	to 1	Q1.61.04	041.5	B96.3	not relevant
- escherichia coli (e coli),	to 1	Q1.61.25	041.4	A49.8	not relevant
- enterobacter,	to 1	Q1.61.14	041.8	B96.8	not relevant
- enterococcus,	to 1	Q1.61.17			not relevant
- enterococcus: vancomycin resistant,	to 1	Q1.61.18			not relevant
- pseudomonas,	to 1	Q1.61.15	041.7	B96.5	not relevant
- pseudomonas aeruginosa,	to 1	Q1.61.19	041.7	B96.5	not relevant
- meningococcal,	to 1	Q1.61.05	036.4	A39.5	not relevant
- tuberculosis,	to 1	Q1.61.06	017.8	A18.8	not relevant
- spirochetal,	to 1	Q1.61.07	104.9	A69.9	not relevant
- syphilitic,	to 1	Q1.61.08	093.9	A52.0	not relevant
- rheumatic,	to 1	Q1.34.71	398.9	I09.9	not relevant
- autoimmune,	to 1	Q1.61.09	279.4	M35.9	not relevant
- typhoid,	to 1	Q1.61.10	002.0	A01.0	not relevant
- gonococcal,	to 1	Q1.61.11	098.8	A54.8	not relevant
- klebsiella,	to 1	Q1.61.16	041.3	A49.8	not relevant
- bacterial of unknown aetiology,	to 1	Q1.61.22			not relevant
- bacterial with aetiology unspecified,	to 1	Q1.61.23			not relevant
- culture negative,	to 1	Q1.61.25			not relevant
- with vegetation(s),	to 1	Q1.61.27			not relevant
- without apparent vegetation(s),	to 1	Q1.61.28			not relevant
- aetiology unknown,	to 1	Q1.90.95			not relevant
- aetiology unspecified,	to 1	Q1.90.97			not relevant
no entry	to 1	not relevant			

628 @ Non-bacterial infection qualifiers

- non-bacterial,	to 1	Q1.61.52			not relevant
- viral,	to 1	Q1.61.31	079.9	B33.2	not relevant
- HIV,	to 1	Q1.61.32	079.4	B23.8	not relevant
- coxsackie virus,	to 1	Q1.61.33	074.2	B34.1	not relevant
- influenza virus,	to 1	Q1.61.34	487.1	J11.8	not relevant
- echovirus,	to 1	Q1.61.35	79.1	B97.1	not relevant
- adenovirus,	to 1	Q1.61.36	79.0	B97.0	not relevant
- rubella,	to 1	Q1.61.37	56.8	B06.8	not relevant
- Cytomegalovirus (CMV),	to 1	Q1.61.38	078.5	B25.9	not relevant
- Epstein Barr Virus (EBV),	to 1	Q1.61.39	079.8	B27.8	not relevant
- mumps virus,	to 1	Q1.61.50	072.7	B26.8	not relevant
- fungal,	to 1	Q1.61.40	117.9	B49	not relevant
- candida,	to 1	Q1.61.41	112.8	B37.8	not relevant
- aspergillosis,	to 1	Q1.61.42	117.3	B44.8	not relevant
- yeast,	to 1	Q1.61.51	117.9	B49	not relevant
- trypanosomal (Chagas' disease),	to 1	Q1.61.43	086.2	B57.2	not relevant
- protozoal (not Chagas'),	to 1	Q1.61.44	136.9	B89	not relevant
- parasitic,	to 1	Q1.61.45	136.9	B89	not relevant
- rickettsial,	to 1	Q1.61.46	083.9	A79.9	not relevant
- chlamydial,	to 1	Q1.61.47	078.8	A74.9	not relevant
- toxoplasmosis,	to 1	Q1.61.48	130	B58.8	not relevant
- pneumocystis,	to 1	Q1.61.49	136.3	B59	not relevant
- culture negative,	to 1	Q1.61.25			not relevant
- aetiology unknown,	to 1	Q1.90.95			not relevant
- aetiology unspecified,	to 1	Q1.90.97			not relevant
no entry	to 1	not relevant			

End of branch

630 Acquired venous abnormalities

Acquired superior caval vein (SVC) abnormalities	to 631	not relevant			
Acquired inferior caval vein (IVC) abnormalities	to 632	not relevant			
Acquired pulmonary venous abnormalities	to 633	not relevant			
Postprocedural great vein bleeding complications	to 1912	not relevant			
Postprocedural great-major vein & coronary sinus complications	to 2028	not relevant			
Infection-thrombosis-laceration-perforation-rupture of SVC-IVC/pulmonary vein	to 3220	10.30.00	459.9	I87.9	10.30.00
Systemic vein abnormality: acquired,	to 958	10.30.09	459.2	I87.1	10.30.09
Systemic vein obstruction,	to 3220	10.30.14			
Spontaneous recanalisation of systemic vein,	to 960	10.30.05	459.2	I87.1	04.04.00
Coronary sinus obstruction,	to 1	15.05.42	459.8	E878.8	I87.8
Postprocedural drainage of coronary sinus to pulmonary venous atrium,	to 1	15.05.44	459.8	E878.8	I87.8
Postprocedural drainage of coronary sinus to systemic venous atrium,	to 1	15.05.43	459.8	E878.8	I87.8
Postprocedural coronary sinus hypertension,	to 960	10.30.02	459.2	I87.1	10.30.09
Iliac vein obstruction,	to 960	10.30.03	459.2	I87.1	10.30.09
Femoral vein obstruction,	to 2910	10.30.06	459.2	I87.1	10.30.09
Right femoral vein abnormality: acquired,	to 2910	10.30.07	459.2	I87.1	10.30.09
Left femoral vein abnormality: acquired,	to 1	10.30.08	453	I82.0	10.30.00
Hepatic vein thrombosis (Budd-Chiari),	to 2910	10.30.04	459.8	I89	10.30.00
Iliofemoral vein dissection,	to 2910	10.30.10	459.8	I89	10.30.00
Right iliac vein abnormality: acquired,	to 2910	10.30.11	459.8	I89	10.30.00
Left iliac vein abnormality: acquired,	to 2910	10.30.12	459.2	I87.1	10.30.00
Innominate vein abnormality: acquired,	to 2910	10.30.13	459.2	I87.1	10.30.00
Jugular vein abnormality: acquired,	to 958	10.30.15	451.1	I80.2	10.30.00
Deep vein thrombosis,					

631 Acquired superior caval vein (SVC) abnormalities

Superior caval vein (SVC) abnormality: acquired,	to 1	10.31.01	459.9	I87.9	10.31.01
Superior caval vein (SVC) stenosis: acquired,	to 960	10.31.02	459.2	I87.1	10.31.01
Superior caval vein (SVC) occlusion: acquired,	to 1	10.31.06	459.2	I87.1	10.31.01
Superior caval vein (SVC) thrombosis,	to 1	04.01.08	453.2	I82.2	10.31.01
Postprocedural superior caval vein (SVC) stenosis,	to 960	15.04.02	459.2	E878.8	I87.1
Superior caval vein (SVC) obstruction,	to 960	10.31.05	459.2	I87.1	10.31.01
Postprocedural superior caval vein (SVC) obstruction,	to 960	15.04.03	459.2	E878.8	I87.1
Superior caval vein (SVC) obstruction due to tumour infiltration,	to 960	10.31.03	459.2	239.8	I87.1
Superior caval vein (SVC) syndrome,	to 2813	10.31.04	459.2	I87.1	15.04.01

632 Acquired IVC (inferior caval vein) abnormalities

Inferior caval vein (IVC) abnormality: acquired,	to 1	10.31.21	459.9	I87.9	10.31.21
Inferior caval vein (IVC) stenosis: acquired,	to 960	10.31.22	459.2	I87.1	10.31.21
Inferior caval vein (IVC) occlusion: acquired,	to 1	10.31.26	459.2	I87.1	10.31.21
Inferior caval vein (IVC) thrombosis,	to 1	04.03.07	453.2	I82.2	10.31.21
Postprocedural inferior caval vein (IVC) stenosis,	to 960	15.04.06	459.2	E878.8	I87.1
Inferior caval vein (IVC) obstruction,	to 960	10.31.25	459.2	I87.1	10.31.21
Postprocedural inferior caval vein (IVC) obstruction,	to 960	15.04.07	459.2	E878.8	I87.1
Inferior caval vein (IVC) obstruction due to tumour infiltration,	to 960	10.31.23	459.2	239.8	I87.1
Inferior caval vein (IVC) syndrome,	to 1	10.31.24	459.2	I87.1	15.04.05

633 Acquired pulmonary venous abnormalities

Pulmonary venous abnormality: acquired,	to 94	10.24.00	459.9	I28.9	10.24.00
Pulmonary venous stenosis: acquired,	to 94	10.24.02	459.2	I28.8	04.08.91
Postprocedural pulmonary venous stenosis,	to 94	15.05.02	459.2	E878.8	I28.8
Pulmonary vein(s) atresia: acquired,	to 94	10.24.10	459.2	I28.8	04.08.91
Pulmonary venous obstruction,	to 94	15.05.03	459.2	E878.8	I28.8
Pulmonary venous obstruction due to extrinsic compression by giant right atrium,	to 94	15.05.05	459.2	E878.8	I28.8
Anastomotic narrowing after anomalous pulmonary venous connections repair,	to 2800	15.05.04	459.9	I28.8	15.05.03
Pulmonary vein dilation,	to 94	04.08.21	747.4	C26.9	04.08.00
Pulmonary venous thrombosis,	to 94	10.24.03	415.1	I26.9	10.24.00
Pulmonary veno-occlusive disease,	to 1	10.24.01	415.1	I26.9	10.24.00
Pulmonary venous hypertension,	to 1	10.24.05	416.8	I27.8	10.24.00
Postprocedural pulmonary venous hypertension,	to 1	15.05.21	416.8	E878.8	I27.8
Residual pulmonary hypertension after pulmonary vein procedure,	to 685	15.05.22	416.8	E878.8	I27.8
Pulmonary venous hypertension due to left heart abnormality,	to 685	10.13.03	416.8	I27.8	10.24.00
Pulmonary venous hypertension due to extrinsic pulmonary vein compression,	to 685	10.24.06	416.8	I27.8	10.24.00
Pulmonary venous hypertension due to fibrosing mediastinitis,	to 685	10.24.07	416.8	I27.8	10.24.00
Pulmonary venous hypertension due to lymphadenopathy,	to 685	10.24.08	416.8	I27.8	10.24.00
Pulmonary venous hypertension due to tumour,	to 685	10.24.11	416.8	I27.8	10.24.00

End of branch

635 Acquired atrial abnormalities

Acquired right atrial abnormalities	to 636	not relevant				
Acquired left atrial abnormalities	to 637	not relevant				
Acquired atrial septum abnormalities	to 638	not relevant				
Postprocedural atrial bleeding complications	to 1908	not relevant				
Postprocedural obstructed systemic venous pathway	to 2037	15.10.01	996.7	T82.8	15.04.34	Postprocedural major vein complication,
Postprocedural obstructed pulmonary venous pathway	to 2037	15.10.02	996.7	T82.8	15.05.01	Postprocedural pulmonary vein complication,
Lipomatous hypertrophy of interatrial groove,	to 1	10.17.32	429.8	E1.8	15.10.10	Right atrial abnormality: acquired,

636 Acquired right atrial abnormalities

Right atrial abnormality: acquired,	to 1	15.10.10	429.8	E1.8	15.10.10	Right atrial abnormality: acquired,
Postprocedural right atrial complication,	to 2910	15.10.11	429.4	R7.8	15.10.11	Postprocedural right atrial complication,
Postprocedural obstruction of right atrial tunnel (including total cavopulmonary connection),	to 960	15.10.12	996.7	T82.8	15.10.13	Obstruction of right atrial conduit (including total cavopulmonary connection),
Obstruction of right atrial conduit (including total cavopulmonary connection),	to 960	15.10.13	996.7	T82.8	15.10.13	Obstruction of right atrial conduit (including total cavopulmonary connection),
Right atrial dilation,	to 962	05.01.08	429.3	E1.7	15.10.10	Right atrial abnormality: acquired,
Right atrial hypertrophy,	to 962	05.01.10	429.3	E1.7	15.10.10	Right atrial abnormality: acquired,
Primary right atrial endocardial fibroelastosis,	to 1	05.01.11	425.3	H2.4	10.10.12	Endocardial fibroelastosis,
Giant right atrium,	to 1	05.01.12	429.3	E1.7	15.10.10	Right atrial abnormality: acquired,
Right atrial thrombus,	to 1	10.17.31	410	E1.3	15.10.10	Right atrial abnormality: acquired,
Postprocedural thrombus in physiological right atrium,	to 1	15.10.14	410	E1.3	15.10.10	Right atrial abnormality: acquired,

637 Acquired left atrial abnormalities

Left atrial abnormality: acquired,	to 1	15.10.20	429.8	E1.8	15.10.20	Left atrial abnormality: acquired,
Postprocedural left atrial complication,	to 2910	15.10.21	429.4	R7.8	15.10.21	Postprocedural left atrial complication,
Left atrial dilation,	to 962	05.02.06	429.3	E1.7	15.10.20	Left atrial abnormality: acquired,
Left atrial hypertrophy,	to 962	05.02.08	429.3	E1.7	15.10.20	Left atrial abnormality: acquired,
Primary left atrial endocardial fibroelastosis,	to 1	05.02.09	425.3	H2.4	10.10.12	Endocardial fibroelastosis,
Giant left atrium,	to 1	05.02.10	429.3	E1.7	15.10.20	Left atrial abnormality: acquired,
Left atrial thrombus,	to 1	10.17.21	410	E1.3	15.10.20	Left atrial abnormality: acquired,
Postprocedural thrombus in physiological left atrium,	to 1	15.10.15	410	E1.3	15.10.10	Right atrial abnormality: acquired,

638 Acquired atrial septum abnormalities

Atrial septum abnormality: acquired,	to 1	10.17.40	429.8	E1.8	10.17.40	Atrial septum abnormality: acquired,	
Postprocedural atrial septum complications	to 2035	not relevant					
Residual interatrial communication (ASD),	to 2910	15.10.63	429.8	E878.8	Q21.1	Y83.8	Residual interatrial communication (ASD),
Recurrent interatrial communication (ASD),	to 1	10.17.41	429.8	E1.0	05.04.01	Interatrial communication (ASD),	
Acquired interatrial communication (ASD),	to 1	10.17.46	429.8	E1.0	05.04.01	Interatrial communication (ASD),	
Iatrogenically created interatrial communication (ASD),	to 1	10.17.47	429.8	E878.8	E1.0	Y83.8	Interatrial communication (ASD),
Spontaneous closure of residual atrial septal defect (ASD) within oval fossa,	to 1	10.17.44	V13.6	Z87.7	05.04.03	Spontaneous closure of atrial septal defect (ASD) within oval fossa (secundum),	
Spontaneous closure of residual interatrial communication (ASD),	to 1	10.17.48	V13.6	Z87.7	05.04.03	Spontaneous closure of atrial septal defect (ASD) within oval fossa (secundum),	
Spontaneous closure of acquired interatrial communication (ASD),	to 1	10.17.45	V13.6	Z87.7	05.04.03	Spontaneous closure of atrial septal defect (ASD) within oval fossa (secundum),	
Acquired excessive restriction of interatrial communication (ASD),	to 1	10.17.42	429.8	E1.8	10.17.40	Atrial septum abnormality: acquired,	
Abscess at site of interatrial communication (ASD),	to 627	10.20.87	422.9	E1.8	10.06.20	Heart abscess,	
Infective endocarditis at site of interatrial communication (ASD),	to 1	10.06.56	421.9	R3.0	10.06.01	Infective endocarditis,	
Infective endocarditis of interatrial communication (ASD) patch,	to 1	10.06.57	421.9	R3.0	10.06.01	Infective endocarditis,	
Postprocedural excessive restriction of interatrial communication (ASD),	to 1	15.10.65	429.4	E878.8	R7.8	Y83.8	Postprocedural atrial septum complication,
Spontaneous closure of fenestration in atrial septum-tunnel,	to 1	10.17.43	V13.6	Z87.7	15.10.61	Postprocedural atrial septum complication,	
Thickened atrial septum,	to 1	05.04.15	745.5	Q21.8	05.03.00	Atrial septum abnormality,	
Platyprosa-orthodoxia syndrome,	to 1	10.17.50	745.5	Q21.8	10.17.50	Platyprosa-orthodoxia syndrome,	

End of branch

640 Acquired valvar & atrioventricular septal defect abnormalities

Heart valvar abnormality: acquired,	to 1	10.32.00	424.9	R8	10.32.00	Heart valvar abnormality: acquired,
Prosthetic valve failure,	to 2135	10.33.00	996	T82.0	10.33.00	Prosthetic valve failure,
Acquired tricuspid valvar abnormalities	to 641	not relevant				
Acquired mitral valvar abnormalities	to 642	not relevant				
Acquired pulmonary valvar abnormalities	to 643	not relevant				
Acquired aortic valvar abnormalities	to 644	not relevant				
Acquired tricuspid valvar abnormalities	to 645	not relevant				
Acquired atrioventricular septal defect (AVSD) & atrioventricular valvar abnormalities	to 646	not relevant				
Papillary muscle disorder,	to 1	10.32.90	424.9	R8	10.32.00	Heart valvar abnormality: acquired,
Papillary muscle rupture,	to 1	10.32.91	424.9	R8	10.32.00	Heart valvar abnormality: acquired,
Papillary muscle rupture: post myocardial infarction,	to 1	10.32.93	424.9	R8	10.32.00	Heart valvar abnormality: acquired,
Atrioventricular valvar chord rupture,	to 1	10.32.92	424.9	R8	10.32.00	Heart valvar abnormality: acquired,

641 Acquired tricuspid valvar abnormalities

Tricuspid valvar rheumatic disease, endocarditis & abscess	to 610	not relevant				
Postprocedural tricuspid valvar complications & sequelae	to 2041	not relevant				
Tricuspid valvar abnormality: acquired,	to 1	10.32.01	424.2	R6.9	10.32.01	Tricuspid valvar abnormality: acquired,
Tricuspid stenosis: acquired,	to 649	10.32.02	424.2	R6.0	06.01.92	Tricuspid stenosis,
Tricuspid valve obstruction by tumour,	to 960	10.32.13	424.2	Z39.8	D48.7	Tricuspid stenosis,
Tricuspid stenosis: recurrent,	to 960	10.32.03	424.2	R6.0	06.01.92	Tricuspid stenosis,
Tricuspid atresia: acquired,	to 1	10.32.12	424.2	R6.8	06.01.01	Tricuspid atresia,
Tricuspid regurgitation: acquired,	to 649	10.32.04	424.2	R6.1	06.01.91	Tricuspid regurgitation,
Tricuspid regurgitation: recurrent,	to 963	10.32.06	424.2	R6.1	06.01.91	Tricuspid regurgitation,
Tricuspid valve annulus dilation,	to 955	06.01.06	746.9	Q22.8	06.01.00	Tricuspid valvar abnormality,
Tricuspid valvar thrombosis,	to 1	10.32.07	424.2	R6.8	10.32.01	Tricuspid valvar abnormality: acquired,
Calcification of native tricuspid valve,	to 1	10.25.01	424.2	R6.8	10.32.01	Tricuspid valvar abnormality: acquired,
Tricuspid subvalvar apparatus abnormality: acquired,	to 1	10.32.14	424.2	R6.8	10.32.01	Tricuspid valvar abnormality: acquired,
Tricuspid chordal rupture,	to 163	10.26.01	429.5	E1.1	10.32.01	Tricuspid valvar abnormality: acquired,
Tricuspid valve papillary muscle dysfunction,	to 649	10.32.08	424.2	R6.8	10.32.01	Tricuspid valvar abnormality: acquired,
Tricuspid leaflet perforation,	to 163	10.32.09	424.2	R6.8	10.32.01	Tricuspid valvar abnormality: acquired,
Tricuspid papillary muscle rupture,	to 166	10.32.10	429.5	E1.2	10.32.01	Tricuspid valvar abnormality: acquired,
Tricuspid leaflet myxomatous degeneration,	to 163	10.32.11	424.2	R6.8	10.32.01	Tricuspid valvar abnormality: acquired,
Tricuspid valvar prosthesis complication,	to 2065	15.11.08	996	T82.0	15.11.08	Tricuspid valvar prosthesis complication,

642 Acquired mitral valvar abnormalities

Mitral valvar rheumatic disease, endocarditis & abscess	to 610	not relevant				
Postprocedural mitral valvar complications & sequelae	to 2045	not relevant				
Mitral valvar abnormality: acquired,	to 1	10.33.01	424	R4.9	10.33.01	Mitral valvar abnormality: acquired,
Mitral valvar stenosis: acquired,	to 649	10.33.02	394	R4.2	10.33.02	Mitral valvar stenosis: acquired,
Mitral valve obstruction by tumour,	to 960	10.33.14	394	Z39.8	D48.7	Mitral valvar stenosis: acquired,
Mitral valvar stenosis: recurrent,	to 960	10.33.03	394	R4.2	10.33.03	Mitral valvar stenosis: recurrent,
Mitral atresia: acquired,	to 1	10.33.13	424	R4.8	06.02.01	Mitral atresia,
Mitral regurgitation: acquired,	to 649	10.33.04	424	R4.0	10.33.04	Mitral regurgitation: acquired,
Mitral regurgitation: recurrent,	to 963	10.33.06	424	R4.0	10.33.06	Mitral regurgitation: recurrent,
Mitral valve annulus dilation,	to 955	06.02.06	746.9	Q23.8	06.02.00	Mitral valvar abnormality,
Mitral valvar prolapse: acquired,	to 173	10.33.16	424	R4.1	06.02.35	Mitral valvar prolapse,
Mitral valvar thrombosis,	to 1	10.33.07	424	R4.8	10.33.01	Mitral valvar abnormality: acquired,
Calcification of native mitral valve,	to 1	10.25.02	424	R4.8	10.33.01	Mitral valvar abnormality: acquired,
Mitral subvalvar apparatus abnormality: acquired,	to 1	10.33.17	424	R4.8	10.33.01	Mitral valvar abnormality: acquired,
Mitral chordal rupture,	to 173	10.26.02	429.5	E1.1	10.33.01	Mitral valvar abnormality: acquired,
Mitral papillary muscle dysfunction,	to 649	10.33.08	424	R4.8	10.33.01	Mitral valvar abnormality: acquired,
Mitral leaflet perforation,	to 173	10.33.09	424	R4.8	10.33.01	Mitral valvar abnormality: acquired,
Systolic anterior motion (SAM) of the mitral valve,	to 173	10.33.15	424	R4.8	10.33.01	Mitral valvar abnormality: acquired,
Mitral papillary muscle rupture,	to 176	10.33.10	429.5	E1.2	10.33.01	Mitral valvar abnormality: acquired,
Mitral leaflet myxomatous degeneration,	to 173	10.33.11	424	R4.8	10.33.01	Mitral valvar abnormality: acquired,
Recurrent supra-mitral valvar left atrial ring,	to 960	10.33.12	746.9	Q20.8	10.33.02	Mitral valvar stenosis: acquired,
Mitral valvar prosthesis complication,	to 2065	15.12.09	996	T82.0	15.12.09	Mitral valvar prosthesis complication,

643 Acquired pulmonary valvar abnormalities

Pulmonary valvar rheumatic disease, endocarditis & abscess	to 610	not relevant					
Postprocedural pulmonary valvar complications & sequelae	to 2112	not relevant					
Pulmonary valvar abnormality: acquired,	to 1	10.35.01	424.3	R7.9	10.35.01	Pulmonary valvar abnormality: acquired,	
Pulmonary valvar stenosis: acquired,	to 649	10.35.02	424.3	R7.0	10.35.02	Pulmonary valvar stenosis: acquired,	
Pulmonary valve obstruction by tumour,	to 960	10.35.09	424.3	Z39.8	D48.7	10.35.02	Pulmonary valvar stenosis: acquired,
Pulmonary valvar stenosis: recurrent,	to 960	10.35.03	424.3	R7.0	10.35.03	Pulmonary valvar stenosis: recurrent,	
Pulmonary regurgitation: acquired,	to 649	10.35.04	424.3	R7.1	10.35.04	Pulmonary regurgitation: acquired,	
Pulmonary regurgitation: recurrent,	to 963	10.35.06	424.3	R7.1	10.35.04	Pulmonary regurgitation: recurrent,	
Pulmonary valvar prolapse - acquired,	to 385	10.35.10	424.3	R7.1	10.35.04	Pulmonary regurgitation: acquired,	
Pulmonary atresia: acquired,	to 1	09.05.15	424.3	R7.8	09.05.15	Pulmonary atresia: acquired,	
Pulmonary valve atresia: acquired,	to 1	10.26.12	424.3	R7.8	09.05.15	Pulmonary atresia: acquired,	
Pulmonary valvar thrombosis,	to 1	10.35.07	424.3	R7.8	10.35.01	Pulmonary valvar abnormality: acquired,	
Calcification of native pulmonary valve,	to 1	10.25.03	424.3	R7.8	10.35.01	Pulmonary valvar abnormality: acquired,	
Pulmonary cusp perforation,	to 1	10.35.08	424.3	R7.8	10.35.01	Pulmonary valvar abnormality: acquired,	
Pulmonary cusp rupture,	to 1	10.26.06	424.3	R7.8	10.35.01	Pulmonary valvar abnormality: acquired,	
Pulmonary valve 'annulus' disrupted,	to 1	10.26.09	424.3	R7.8	10.35.01	Pulmonary valvar abnormality: acquired,	
Pulmonary valve 'annulus' calcification,	to 1	10.26.10	424.3	R7.8	10.35.01	Pulmonary valvar abnormality: acquired,	
Pulmonary valve 'annulus' deficiency,	to 1	10.26.11	424.3	R7.8	10.35.01	Pulmonary valvar abnormality: acquired,	
Pulmonary valvar prosthesis complication,	to 2135	15.30.08	996	T82.0	15.30.08	Pulmonary valvar prosthesis complication,	

Acquired aortic valvar abnormalities

Aortic valvar rheumatic disease, endocarditis & abscess	to 610	not relevant				
Postprocedural aortic valvar complications & sequelae	to 2122	not relevant				
Aortic valvar abnormality: acquired,	to 1	10.36.01	424.1	05.9	10.36.01	Aortic valvar abnormality: acquired,
Aortic valvar stenosis: acquired,	to 649	10.36.02	424.1	05.0	10.36.02	Aortic valvar stenosis: acquired,
Aortic valve obstruction by tumour,	to 960	10.36.09	424.1	05.0	D48.7	Aortic valvar stenosis: acquired,
Aortic valvar stenosis: recurrent,	to 960	10.36.03	424.1	05.0	10.36.03	Aortic valvar stenosis: recurrent,
Aortic valvar stenosis: degenerative,	to 649	10.36.13	424.1	05.0	10.36.02	Aortic valvar stenosis: acquired,
Aortic regurgitation: acquired,	to 649	10.36.04	424.1	05.1	10.36.04	Aortic regurgitation: acquired,
Aortic regurgitation: recurrent,	to 963	10.36.06	424.1	05.1	10.36.06	Aortic regurgitation: recurrent,
Aortic valvar prolapse: acquired,	to 385	09.15.08	424.1	05.8	09.15.30	Aortic valvar prolapse,
Aortic valvar thrombosis,	to 1	10.36.07	424.1	05.8	10.36.01	Aortic valvar abnormality: acquired,
Calcification of native aortic valve cusps,	to 385	10.25.04	424.1	05.8	10.36.01	Aortic valvar abnormality: acquired,
Aortic cusp perforation,	to 385	10.36.08	424.1	05.8	10.36.01	Aortic valvar abnormality: acquired,
Aortic cusp rupture,	to 385	10.26.07	424.1	05.8	10.36.01	Aortic valvar abnormality: acquired,
Aortic valve 'annulus' disrupted,	to 1	10.36.10	424.1	05.8	10.36.01	Aortic valvar abnormality: acquired,
Aortic valve 'annulus' calcification,	to 1	10.36.11	424.1	05.8	10.36.01	Aortic valvar abnormality: acquired,
Aortic valve 'annulus' dehiscence,	to 1	10.36.12	424.1	05.8	10.36.01	Aortic valvar abnormality: acquired,
Aortic valvar prosthesis complication,	to 2135	15.35.08	996	782.0	15.35.08	Aortic valvar prosthesis complication,

Acquired trunval valvar abnormalities

Trunval valvar rheumatic disease, endocarditis & abscess	to 610	not relevant				
Postprocedural trunval valvar complications & sequelae	to 2105	not relevant				
Trunval valvar abnormality: acquired,	to 1	10.37.01	424.9	08	10.37.01	Trunval valvar abnormality: acquired,
Trunval stenosis: acquired,	to 649	10.37.02	424.9	08	10.37.01	Trunval valvar abnormality: acquired,
Trunval stenosis: recurrent,	to 960	10.37.03	424.9	08	10.37.01	Trunval valvar abnormality: acquired,
Trunval regurgitation: acquired,	to 649	10.37.04	424.9	08	09.02.03	Trunval valvar regurgitation,
Trunval regurgitation: recurrent,	to 963	10.37.06	424.9	08	09.02.03	Trunval valvar regurgitation,
Trunval valvar thrombosis,	to 1	10.37.07	424.9	08	10.37.01	Trunval valvar abnormality: acquired,
Calcification of native trunval valve,	to 1	10.25.13	424.9	08	10.37.01	Trunval valvar abnormality: acquired,
Trunval cusp perforation,	to 1	10.37.08	424.9	08	10.37.01	Trunval valvar abnormality: acquired,
Trunval cusp rupture,	to 1	10.26.08	424.9	08	10.37.01	Trunval valvar abnormality: acquired,
Trunval valvar prosthesis complication,	to 2135	15.25.08	996	782.0	15.25.31	Postprocedural common arterial trunk complication,

Acquired atrioventricular septal defect (AVSD) & atrioventricular valvar abnormalities

Postprocedural atrioventricular septal defect complications & sequelae	to 2050	not relevant				
Acquired right-sided atrioventricular valvar abnormalities in atrioventricular septal defect (AVSD) & double inlet ventricle	to 647	not relevant				
Acquired left-sided atrioventricular valvar abnormalities in atrioventricular septal defect (AVSD) & double inlet ventricle	to 648	not relevant				
Common atrioventricular valvar endocarditis & abscess	to 610	not relevant				
Acquired abnormality in atrioventricular septal defect (AVSD),	to 1	10.34.67	424.9	08	10.34.60	Atrioventricular valvar abnormality in atrioventricular septal defect (AVSD): acquired,
AV valvar abnormality in atrioventricular septal defect: acquired,	to 1	10.34.60	424.9	08	10.34.60	Atrioventricular valvar abnormality in atrioventricular septal defect (AVSD): acquired,
Recurrent atrial component of atrioventricular septal defect,	to 1	10.34.61	429.9	05.10	15.16.00	Postprocedural atrioventricular septal defect complication,
Recurrent ventricular component (VSD) atrioventricular septal defect,	to 1	10.34.62	429.9	05.10	15.16.00	Postprocedural atrioventricular septal defect complication,
Aneurysm of patch after atrioventricular septal defect repair,	to 1	15.16.04	996.7	782.8	15.16.00	Postprocedural atrioventricular septal defect complication,
Mechanical haemolysis due to prosthetic patch,	to 1	15.02.04	283.1	996.7	15.02.07	Postprocedural haemolysis,
Common atrioventricular valvar thrombosis,	to 1	10.34.63	424.9	08	10.34.60	Atrioventricular valvar abnormality in atrioventricular septal defect (AVSD): acquired,
Common atrioventricular valvar regurgitation: acquired,	to 649	10.34.64	424.9	08	10.34.60	Atrioventricular valvar abnormality in atrioventricular septal defect (AVSD): acquired,
Common atrioventricular valvar regurgitation: recurrent,	to 963	10.34.66	424.9	08	10.34.60	Atrioventricular valvar abnormality in atrioventricular septal defect (AVSD): acquired,
Calcification of native common atrioventricular valve,	to 1	10.25.12	424.9	08	10.34.60	Atrioventricular valvar abnormality in atrioventricular septal defect (AVSD): acquired,
Common atrioventricular valvar abnormality: acquired,	to 1	10.34.69	424.9	08	10.34.60	Atrioventricular valvar abnormality in atrioventricular septal defect (AVSD): acquired,
Atrioventricular valvar prosthesis complication,	to 2065	15.13.06	996	782.0	10.34.60	Atrioventricular valvar abnormality in atrioventricular septal defect (AVSD): acquired,

Acquired right atrioventricular valvar abnormalities in atrioventricular septal defect (AVSD) & double inlet ventricle

Right atrioventricular valvar endocarditis & abscess	to 610	not relevant				
Postprocedural right atrioventricular valvar complications & sequelae in atrioventricular septal defect (AVSD) & double inlet ventricle	to 2055	not relevant				
Right atrioventricular valvar abnormality: acquired,	to 1	10.34.01	424.2	06.9	10.32.01	Tricuspid valvar abnormality: acquired,
Right atrioventricular valvar stenosis: acquired,	to 649	10.34.02	424.2	06.0	06.01.92	Tricuspid stenosis,
Right atrioventricular valvar stenosis: recurrent,	to 960	10.34.03	424.2	06.0	06.01.92	Tricuspid stenosis,
Right atrioventricular valvar regurgitation: acquired,	to 649	10.34.04	424.2	06.1	06.01.91	Tricuspid regurgitation,
Right atrioventricular valvar regurgitation: recurrent,	to 963	10.34.06	424.2	06.1	06.01.91	Tricuspid regurgitation,
Right-sided atrioventricular annulus dilation in double inlet ventricle,	to 955	06.03.06	746.9	022.8	06.01.00	Tricuspid valvar abnormality,
Right atrioventricular valvar thrombosis,	to 1	10.34.07	424.2	06.8	10.32.01	Tricuspid valvar abnormality: acquired,
Calcification of native right atrioventricular valve,	to 1	10.25.10	424.2	06.8	10.32.01	Tricuspid valvar abnormality: acquired,
Right atrioventricular chordal rupture,	to 1	10.26.03	429.5	05.1	10.32.01	Tricuspid valvar abnormality: acquired,
Right atrioventricular papillary muscle dysfunction,	to 649	10.34.08	424.2	06.8	10.32.01	Tricuspid valvar abnormality: acquired,
Right atrioventricular papillary muscle rupture,	to 1	10.34.09	429.5	05.2	10.32.01	Tricuspid valvar abnormality: acquired,
Right atrioventricular leaflet myxomatous degeneration,	to 1	10.34.10	424.2	06.8	10.32.01	Tricuspid valvar abnormality: acquired,
Right atrioventricular valvar prosthesis complication,	to 2065	15.14.08	996	782.0	15.11.08	Tricuspid valvar prosthesis complication,

Acquired left atrioventricular valvar abnormalities in atrioventricular septal defect (AVSD) & double inlet ventricle

Left atrioventricular valvar endocarditis & abscess	to 610	not relevant				
Postprocedural left atrioventricular valvar complications & sequelae in atrioventricular septal defect (AVSD) & double inlet ventricle	to 2060	not relevant				
Left atrioventricular valvar abnormality: acquired,	to 1	10.34.41	424	04.9	10.33.01	Mitral valvar abnormality: acquired,
Left atrioventricular valvar stenosis: acquired,	to 649	10.34.42	394	04.2	10.33.02	Mitral valvar stenosis: acquired,
Left atrioventricular valvar stenosis: recurrent,	to 960	10.34.43	394	04.2	10.33.03	Mitral valvar stenosis: recurrent,
Left atrioventricular valvar regurgitation: acquired,	to 649	10.34.44	424	04.0	10.34.44	Left atrioventricular valvar regurgitation: acquired,
Left atrioventricular valvar regurgitation: recurrent,	to 963	10.34.46	424	04.0	10.33.06	Mitral regurgitation: recurrent,
Left-sided atrioventricular annulus dilation in double inlet ventricle,	to 955	06.04.06	746.9	023.8	06.02.00	Mitral valvar abnormality,
Left atrioventricular valvar thrombosis,	to 1	10.34.47	424	04.8	10.33.01	Mitral valvar abnormality: acquired,
Calcification of native left atrioventricular valve,	to 1	10.25.11	424	04.8	10.33.01	Mitral valvar abnormality: acquired,
Left atrioventricular chordal rupture,	to 1	10.26.04	429.5	05.1	10.33.01	Mitral valvar abnormality: acquired,
Left atrioventricular papillary muscle dysfunction,	to 649	10.34.48	424	04.8	10.33.01	Mitral valvar abnormality: acquired,
Left atrioventricular papillary muscle rupture,	to 1	10.34.49	429.5	05.2	10.33.01	Mitral valvar abnormality: acquired,
Left atrioventricular leaflet myxomatous degeneration,	to 1	10.34.50	424	04.8	10.33.01	Mitral valvar abnormality: acquired,
Left atrioventricular valvar prosthesis complication,	to 2065	15.15.08	996	782.0	15.12.09	Mitral valvar prosthesis complication,

649 @ Causes of acquired valvar regurgitation or stenosis - qualifiers

- due to ventricular dysfunction,	to 960	Q1.34.70				not relevant
- rheumatic,	to 960	Q1.34.71	398.9	09.9		not relevant
- endocarditis induced,	to 960	Q1.34.72				not relevant
- 'annular' dehiscence,	to 960	Q1.34.98				not relevant
- ischaemic,	to 960	Q1.34.73				not relevant
- chordal rupture,	to 960	Q1.33.02				not relevant
- chordal ischaemic rupture,	to 960	Q1.34.74				not relevant
- chordal traumatic rupture,	to 960	Q1.34.75				not relevant
- chordal rupture: iatrogenic,	to 960	Q1.33.03				not relevant
- chordal rupture: spontaneous,	to 960	Q1.33.04				not relevant
- chordal rupture due to endocarditis,	to 960	Q1.33.05				not relevant
- papillary muscle infarct,	to 960	Q1.34.76				not relevant
- papillary muscle atrophy,	to 960	Q1.34.99				not relevant
- papillary muscle degeneration,	to 960	Q1.33.00				not relevant
- papillary muscle scarring,	to 960	Q1.33.01				not relevant
- degenerative,	to 960	Q1.34.91				not relevant
- myxomatous degeneration,	to 960	Q1.34.77				not relevant
- infiltration induced,	to 960	Q1.34.92				not relevant
- tumour induced,	to 960	Q1.34.78				not relevant
- tumour induced (cardiac),	to 960	Q1.34.86				not relevant
- tumour induced (noncardiac),	to 960	Q1.34.87				not relevant
- postprocedural valve abnormality,	to 960	Q1.34.79				not relevant
- post balloon dilation,	to 960	Q1.34.93				not relevant
- post-transluminal ventricular biopsy,	to 960	Q1.34.94				not relevant
- traumatic,	to 960	Q1.34.80				not relevant
- traumatic: blunt,	to 960	Q1.34.88				not relevant
- traumatic: penetrating,	to 960	Q1.34.90				not relevant
- iatrogenic,	to 960	Q1.90.53				not relevant
- catheter induced,	to 960	Q1.34.82				not relevant
- pacemaker lead,	to 960	Q1.34.83				not relevant
- drug induced,	to 960	Q1.00.37	995.2	788.7		not relevant
- radiation induced,	to 960	Q1.34.85				not relevant
- cardiomyopathy induced,	to 960	Q1.34.95				not relevant
- spontaneous,	to 960	Q1.34.96				not relevant
- aneurysm induced,	to 960	Q1.34.97				not relevant
- cause of valve dysfunction (DESCRIBE),	to 960	Q1.34.89				not relevant
no entry	to 960	not relevant				

End of branch

650 Acquired ventricular, subaortic & subpulmonary abnormalities

Postprocedural right or left ventricle bleeding complications	to 1908	not relevant					
Acquired right ventricular abnormalities	to 651	not relevant					
Acquired left ventricular abnormalities	to 652	not relevant					
Acquired ventricular septum abnormalities	to 653	not relevant					
Acquired subaortic and subpulmonary stenosis	to 654	not relevant					
Heart muscle disease & cardiomyopathies	to 655	not relevant					
Traumatic injury to ventricles	to 710	not relevant					
Ventricular dyssynchrony,	to 1	07.00.01	428.1	50.1	07.00.01	Ventricular dyssynchrony,	
Thrombus formation in ventricle,	to 1	07.00.02	410	51.3	01.01.39	Cardiac abnormality,	

651 Acquired right ventricular abnormalities

Postprocedural right ventricle and right ventricular outflow tract complications & sequelae	to 2075	not relevant						
Infection-thrombosis-laceration-perforation-rupture of right ventricle or right ventricular outflow tract	to 2085	not relevant						
Endocarditis and abscess	to 610	not relevant						
Right ventricular abnormality: acquired,	to 1	10.16.00			10.16.00	Right ventricular abnormality: acquired,		
Right ventricular dilation,	to 962	07.01.02	429.3	51.7	10.16.00	Right ventricular abnormality: acquired,		
Right ventricular hypertrophy,	to 962	07.01.05	429.3	51.7	10.16.00	Right ventricular abnormality: acquired,		
Right ventricular diverticulum - acquired,	to 1	10.16.01	414.1	25.3	10.16.00	Right ventricular abnormality: acquired,		
Right ventricular aneurysm - acquired,	to 976	10.16.02	414.1	25.3	07.01.14	Right ventricular aneurysm,		
Right ventricular thrombus,	to 1	10.16.03	410	51.3	10.16.00	Right ventricular abnormality: acquired,		
Right ventricular heart failure,	to 1	10.16.08	428	50.0	10.16.08	Right ventricular heart failure,		
Right ventricular hypertension,	to 1	10.16.14	429.8	51.8	10.16.00	Right ventricular abnormality: acquired,		
Right ventricular dysfunction,	to 972	07.01.11	429.8	51.8	07.01.11	Right ventricular dysfunction,		
Right ventricular dysfunction: generalised,	to 972	07.01.08	429.8	51.8	07.01.11	Right ventricular dysfunction,		
Right ventricular dysfunction: regional,	to 972	07.01.09	429.8	51.8	07.01.11	Right ventricular dysfunction,		
Right ventricular dysfunction: systolic,	to 972	10.16.04	429.8	51.8	07.01.11	Right ventricular dysfunction,		
Right ventricular dysfunction: diastolic,	to 951	10.16.05	429.8	51.8	07.01.11	Right ventricular dysfunction,		
Right ventricular dysfunction - due to interaction with left ventricle,	to 951	10.16.15	429.8	51.8	07.01.11	Right ventricular dysfunction,		
Right heart failure due to pulmonary disease (cor pulmonale),	to 1	10.16.11	416.9	27.9	10.16.08	Right ventricular-congestive heart failure,		
Acute right heart failure due to pulmonary disease (cor pulmonale),	to 1	10.16.12	415.0	26.0	10.16.08	Right ventricular-congestive heart failure,		
Right heart failure due to pulmonary hypertension (cor pulmonale),	to 681	10.16.06	416.9	27.9	10.16.08	Right ventricular-congestive heart failure,		
Chronic right heart failure due to pulmonary disease (cor pulmonale),	to 1	10.16.17	416.9	27.9	10.16.08	Right ventricular-congestive heart failure,		
Right ventricular outflow tract obstruction: acquired,	to 970	10.16.16	429.8	51.8	10.16.16	Right ventricular outflow tract obstruction: acquired,		
Recurrent right ventricular outflow tract obstruction,	to 960	10.16.07	429.8	51.8	10.16.16	Right ventricular outflow tract obstruction: acquired,		
Right ventricular outflow tract obstruction due to tumour,	to 720	10.16.13	429.8	239.8	51.8	10.16.16	Right ventricular outflow tract obstruction: acquired,	
Right ventricular outflow tract obstruction due to foreign material,	to 1608	10.16.18	429.8	239.8	51.8	10.16.16	Right ventricular outflow tract obstruction: acquired,	
Aneurysm of right ventricular outflow tract patch,	to 1	15.20.25	996.7	782.8	15.20.25	Aneurysm of right ventricular outflow tract patch,		
Arrhythmogenic right ventricular cardiomyopathy,	to 972	07.01.10	425.4	42.8	07.01.10	Arrhythmogenic right ventricular cardiomyopathy,		

652 Acquired left ventricular abnormalities

Postprocedural left ventricle and left ventricular outflow tract complications & sequelae	to 2080	not relevant						
Infection-thrombosis-laceration-perforation-rupture of left ventricle or left ventricular outflow tract	to 2085	not relevant						
Endocarditis and abscess	to 610	not relevant						
Left ventricular abnormality: acquired,	to 1	10.16.40	429.8	51.8	10.16.40	Left ventricular abnormality: acquired,		
Left ventricular dilation,	to 962	07.06.02	429.3	51.7	10.16.40	Left ventricular abnormality: acquired,		
Left ventricular hypertrophy,	to 962	07.06.05	429.3	51.7	10.16.40	Left ventricular abnormality: acquired,		
Left ventricular diverticulum - acquired,	to 1	10.16.41	414.1	25.3	10.16.40	Left ventricular abnormality: acquired,		
Left ventricular aneurysm - acquired,	to 976	10.16.42	414.1	25.3	07.06.13	Left ventricular aneurysm,		
Left ventricular subaortic valvar aneurysm - acquired,	to 976	10.16.51	414.1	25.3	07.06.13	Left ventricular aneurysm,		
Left ventricular subaortic valvar aneurysm - acquired,	to 976	10.16.52	414.1	25.3	07.06.13	Left ventricular aneurysm,		
Left ventricular thrombus,	to 1	10.16.43	410	51.3	10.16.40	Left ventricular abnormality: acquired,		
Left ventricular failure,	to 1	10.16.47	428.1	50.1	10.16.47	Left ventricular failure,		
Left ventricular dysfunction,	to 972	07.06.10	429.8	51.8	07.06.10	Left ventricular dysfunction,		
Left ventricular dysfunction: generalised,	to 972	07.06.08	429.8	51.8	07.06.10	Left ventricular dysfunction,		
Left ventricular dysfunction: regional,	to 972	07.06.09	429.8	51.8	07.06.10	Left ventricular dysfunction,		
Left ventricular dysfunction: systolic,	to 972	10.16.44	429.8	51.8	07.06.10	Left ventricular dysfunction,		
Left ventricular dysfunction: diastolic,	to 951	10.16.45	429.8	51.8	07.06.10	Left ventricular dysfunction,		
Left ventricular dysfunction - due to interaction with right ventricle,	to 951	10.16.50	429.8	51.8	07.06.10	Left ventricular dysfunction,		
Left ventricular outflow tract obstruction: acquired,	to 970	10.16.53	429.8	51.8	10.16.46	Left ventricular dysfunction,		
Recurrent left ventricular outflow tract obstruction,	to 960	10.16.46	429.8	51.8	10.16.46	Recurrent left ventricular outflow tract obstruction,		
Left ventricular outflow tract obstruction due to tumour,	to 720	10.16.48	429.8	239.8	51.8	10.16.46	Recurrent left ventricular outflow tract obstruction,	
Aneurysm of left ventricular outflow tract patch,	to 1	15.21.25	996.7	782.8	15.21.21	Postprocedural left ventricular outflow tract complication,		

653 Acquired ventricular septum abnormalities

Postprocedural ventricular septal defect (VSD) complications & sequelae	to 2090	not relevant						
Ventricular septal defect (VSD) endocarditis and abscess	to 610	not relevant						
Ventricular septal defect (VSD): acquired,	to 288	10.16.63	429.8	51.0	07.10.00	Ventricular septal defect (VSD),		
Ventricular septal defect (VSD): acquired due to endocarditis,	to 288	10.16.64	429.8	421	51.0	07.10.00	Ventricular septal defect (VSD),	
Abnormality associated with ventricular septum: acquired,	to 1	10.16.60	429.8	51.0	10.16.60	Abnormality associated with ventricular septum: acquired,		
Residual ventricular septal defect (VSD),	to 966	15.22.02	745.4	E878.8	Q21.0	15.22.02	Residual ventricular septal defect (VSD),	
Recurrent ventricular septal defect (VSD),	to 288	10.16.61	429.8	51.0	07.10.00	Ventricular septal defect (VSD),		
Aneurysm of patch after ventricular septal defect (VSD) repair,	to 1	15.22.06	996.7	782.8	10.16.60	Abnormality associated with ventricular septum: acquired,		
Postprocedural excessive restriction of ventricular septal defect (VSD),	to 1	15.22.03	429.8	E878.8	07.8	10.16.60	Abnormality associated with ventricular septum: acquired,	
Postmyocardial infarct ventricular septal defect (VSD),	to 288	10.16.62	410	51.0	10.16.62	Postmyocardial infarct ventricular septal defect (VSD),		
Ventricular septal hypertrophy,	to 1	07.20.03	429.3	51.7	07.20.00	Ventricular septal abnormality,		
Ventricular septum: thin,	to 1	07.20.05	745.9	Q21.9	07.20.00	Ventricular septal abnormality,		
Ventricular septum: abnormal motion,	to 1	07.20.06	745.9	Q21.9	07.20.00	Ventricular septal abnormality,		
Ventricular septum: paradoxical motion,	to 1	07.20.07	745.9	Q21.9	07.20.00	Ventricular septal abnormality,		
Abnormality associated with ventricular septal defect (VSD): acquired,	to 1	10.16.69	429.8	51.0	10.16.60	Abnormality associated with ventricular septum: acquired,		
Characteristics of pulmonary-systemic blood flow (including Op.Os) - qualifiers	to 975	not relevant						

654 Acquired Subaortic and Subpulmonary Stenosis

Subaortic stenosis: acquired,	to 281	10.16.86	429.8	51.8	10.16.86	Subaortic stenosis: acquired,		
Subaortic stenosis: recurrent,	to 281	10.16.87	429.8	51.8	10.16.86	Subaortic stenosis: acquired,		
Subaortic stenosis: residual,	to 281	15.20.77	429.8	E878.8	51.8	10.16.86	Subaortic stenosis: acquired,	
Subaortic stenosis: postprocedural,	to 281	15.20.82	429.8	E878.8	51.8	10.16.86	Subaortic stenosis: acquired,	
Subaortic stenosis in complex heart disease: acquired,	to 281	10.16.82	429.8	51.8	10.16.82	Subaortic stenosis in complex heart disease: acquired,		
Subaortic stenosis due to restrictive ventricular septal defect (VSD) in functionally univentricular heart: acquired,	to 281	10.16.90	429.8	51.8	10.16.82	Subaortic stenosis in complex heart disease: acquired,		
Postprocedural subaortic stenosis in complex heart disease,	to 281	15.20.73	429.8	07.8	10.16.82	Subaortic stenosis in complex heart disease: acquired,		
Subneoaortic valvar stenosis,	to 281	15.20.79	429.8	E878.8	51.8	10.16.86	Subaortic stenosis: acquired,	
Residual subaortic stenosis in complex heart disease,	to 281	15.20.75	429.8	E878.8	51.8	15.20.75	Residual subaortic stenosis in complex heart disease,	
Recurrent subaortic stenosis in complex heart disease,	to 281	10.16.84	429.8	51.8	10.16.82	Subaortic stenosis in complex heart disease: acquired,		
Subpulmonary stenosis: acquired,	to 281	10.16.88	429.8	51.8	10.16.88	Subpulmonary stenosis: acquired,		
Subpulmonary stenosis: recurrent,	to 281	10.16.89	429.8	51.8	10.16.88	Subpulmonary stenosis: acquired,		
Subpulmonary stenosis: residual,	to 281	15.20.78	429.8	E878.8	51.8	10.16.88	Subpulmonary stenosis: acquired,	
Subpulmonary stenosis: postprocedural,	to 281	15.20.83	429.8	E878.8	51.8	10.16.88	Subpulmonary stenosis: acquired,	
Subpulmonary stenosis in complex heart disease: acquired,	to 281	10.16.83	429.8	51.8	10.16.83	Subpulmonary stenosis in complex heart disease: acquired,		
Subpulmonary stenosis due to restrictive ventricular septal defect (VSD) in functionally univentricular heart: acquired,	to 281	10.16.91	429.8	51.8	10.16.83	Subpulmonary stenosis in complex heart disease: acquired,		
Postprocedural subpulmonary stenosis in complex heart disease,	to 281	15.20.74	429.8	07.8	10.16.83	Subpulmonary stenosis in complex heart disease: acquired,		
Subneopulmonary valvar stenosis (native aortic valve),	to 281	15.20.80	429.8	E878.8	51.8	10.16.88	Subpulmonary stenosis: acquired,	
Residual subpulmonary stenosis in complex heart disease,	to 281	15.20.76	429.8	E878.8	51.8	15.20.76	Residual subpulmonary stenosis in complex heart disease,	
Recurrent subpulmonary stenosis in complex heart disease,	to 281	10.16.85	429.8	51.8	10.16.83	Subpulmonary stenosis in complex heart disease: acquired,		

End of branch

655 Heart muscle disease & cardiomyopathies

Infectious myocarditis	to 620	not relevant						
Primary and infiltrative cardiomyopathies	to 656	not relevant						
Heart muscle disease due to drugs & toxins	to 660	not relevant						
Nutritional heart muscle disease	to 661	not relevant						
Heart muscle disease in metabolic and collagen vascular disorders	to 662	not relevant						
Heart muscle disease associated with histiocytoid & mitochondrial disease	to 546	not relevant						
Myocarditis,	to 668	10.07.90	429.0	51.4	10.07.01	Infectious myocarditis,		
Myocarditis: acute,	to 668	10.07.91	422.9	40.9	10.07.01	Infectious myocarditis,		
Myocarditis: idiopathic,	to 668	10.07.92	422.9	40.1	10.07.01	Infectious myocarditis,		
Inflammatory cardiomyopathy (post-myocarditis),	to 668	10.07.93	425.8	42.8	10.10.25	Dilated cardiomyopathy,		
Heart muscle disease due to neuromuscular disorder,	to 545	10.07.41	425.9	43.8	10.10.01	Cardiomyopathy,		
Heart muscle disease in cardiac rejection,	to 668	10.07.42	996.8	786.2	10.07.42	Heart muscle disease in cardiac rejection,		
Hypertensive cardiomyopathy (heart muscle disease due to systemic hypertension),	to 668	10.07.46	402	11.9	10.10.01	Cardiomyopathy,		
"Valvular" cardiomyopathy (out of proportion to loading conditions),	to 668	10.07.47	425.9	42.8	10.10.01	Cardiomyopathy,		
Heart muscle disease in sickle cell haemoglobinopathy,	to 668	10.07.43	425.8	282.6	05.7	10.10.01	Cardiomyopathy,	
Ichaemic cardiomyopathy,	to 668	10.07.44	414.8	25.5	10.10.25	Dilated cardiomyopathy,		
Ichaemic dilated cardiomyopathy due to coronary arterial disease,	to 668	10.07.48	414.8	25.5	10.10.25	Dilated cardiomyopathy,		
Pacemaker induced cardiomyopathy,	to 668	10.07.45	425.9	42.7	10.10.25	Dilated cardiomyopathy,		
Ventricular myocardial noncompaction cardiomyopathy,	to 668	07.08.50	425.4	42.8	07.08.50	Ventricular myocardial noncompaction cardiomyopathy,		
Right ventricular myocardial noncompaction cardiomyopathy,	to 668	07.01.12	425.4	42.8	07.08.50	Ventricular myocardial noncompaction cardiomyopathy,		
Left ventricular myocardial noncompaction cardiomyopathy,	to 668	07.06.11	425.4	42.8	07.08.50	Ventricular myocardial noncompaction cardiomyopathy,		
Cardiomyopathy due to systemic disease,	to 668	10.10.65	425.8	43.8	10.10.01	Cardiomyopathy,		
Myocardial failure in end stage congenital heart disease,	to 668	10.07.40	428.9	746.9	05.9	10.07.40	Myocardial failure in end stage congenital heart disease,	
Endocardial disease,	to 668	10.07.95	425.4	42.9	10.10.01	Cardiomyopathy,		
Myocardial degeneration,	to 668	10.07.96	429.1	51.5	10.10.01	Cardiomyopathy,		
Stress induced cardiomyopathy (Takotsubo),	to 668	10.07.98	425.9	42.8	10.10.01	Cardiomyopathy,		

656	Primary and infiltrative cardiomyopathies								
	Cardiomyopathy,	to 668	10.10.01	425.4	M2.9	10.10.01	Cardiomyopathy,		
	Cardiomyopathy related abnormality,	to 1	10.10.19	746.8	Q24.8	01.01.39	Cardiac abnormality,		
	Hypertrophic cardiomyopathy	to 657	not relevant						
	Dilated cardiomyopathy	to 658	not relevant						
	Restrictive & infiltrative cardiomyopathies	to 659	not relevant						
	Heart muscle disease associated with histiocytoid & mitochondrial disease	to 546	not relevant						
657	Hypertrophic cardiomyopathy								
	Hypertrophic cardiomyopathy,	to 668	10.10.20	425.4	M2.2	10.10.20	Hypertrophic cardiomyopathy,		
	Nonobstructive hypertrophic cardiomyopathy,	to 668	10.10.70	425.4	M2.2	10.10.20	Hypertrophic cardiomyopathy,		
	Obstructive hypertrophic cardiomyopathy,	to 668	10.10.71	425.1	M2.1	10.10.20	Hypertrophic cardiomyopathy,		
	Hypertrophic cardiomyopathy: idiopathic (primary),	to 668	10.10.72	425.1	M2.1	10.10.20	Hypertrophic cardiomyopathy,		
	Hypertrophic cardiomyopathy: known aetiology (secondary),	to 668	10.10.73	425.1	M2.1	10.10.20	Hypertrophic cardiomyopathy,		
	Hypertrophic cardiomyopathy due to sarcomeric gene mutation,	to 668	10.10.74	425.1	M2.1	10.10.20	Hypertrophic cardiomyopathy,		
	Hypertrophic cardiomyopathy due to sarcomeric gene mutation: beta-myosin heavy chain,	to 668	10.10.75	425.1	M2.1	10.10.20	Hypertrophic cardiomyopathy,		
	Hypertrophic cardiomyopathy due to sarcomeric gene mutation: myosin-binding protein C,	to 668	10.10.76	425.1	M2.1	10.10.20	Hypertrophic cardiomyopathy,		
	Nonobstructive hypertrophic cardiomyopathy of left ventricle,	to 668	10.10.02	425.4	M2.2	10.10.20	Hypertrophic cardiomyopathy,		
	Nonobstructive hypertrophic cardiomyopathy of right ventricle,	to 668	10.10.03	425.4	M2.2	10.10.20	Hypertrophic cardiomyopathy,		
	Obstructive hypertrophic cardiomyopathy of left ventricle,	to 668	10.10.05	425.1	M2.1	10.10.20	Hypertrophic cardiomyopathy,		
	Obstructive hypertrophic cardiomyopathy of right ventricle,	to 668	10.10.06	425.1	M2.1	10.10.20	Hypertrophic cardiomyopathy,		
	Asymmetric septal hypertrophy (ASH),	to 1	10.10.21	425.4	M2.2	10.10.20	Hypertrophic cardiomyopathy,		
	Concentric hypertrophy,	to 668	10.10.22	425.4	M2.2	10.10.20	Hypertrophic cardiomyopathy,		
	Apical hypertrophy,	to 668	10.10.23	425.4	M2.2	10.10.20	Hypertrophic cardiomyopathy,		
	Hereditary hypertrophic cardiomyopathy,	to 668	10.10.30	425.4	M2.2	10.10.20	Hypertrophic cardiomyopathy,		
	Hypertrophic cardiomyopathy associated with mitochondrial disease,	to 546	10.10.34	425.4	359.8	G71.3	10.10.20	Hypertrophic cardiomyopathy,	
	Hypertrophic cardiomyopathy with genetic marker,	to 668	14.01.22	425.4	M2.2	10.10.20	Hypertrophic cardiomyopathy,		
	Hypertrophic cardiomyopathy related abnormality,	to 1	10.10.24	746.8	Q24.8	01.01.39	Cardiac abnormality,		
658	Dilated cardiomyopathy								
	Dilated cardiomyopathy,	to 668	10.10.25	425.4	M2.0	10.10.25	Dilated cardiomyopathy,		
	Dilated cardiomyopathy: idiopathic (primary),	to 668	10.10.35	425.4	M2.0	10.10.25	Dilated cardiomyopathy,		
	Dilated cardiomyopathy: known aetiology (secondary),	to 668	10.10.36	425.4	M2.0	10.10.25	Dilated cardiomyopathy,		
	Dilated cardiomyopathy due to infection,	to 627	10.10.37	425.4	M2.0	10.10.25	Dilated cardiomyopathy,		
	Dilated cardiomyopathy due to myocarditis,	to 620	10.10.38	425.4	M2.0	10.10.25	Dilated cardiomyopathy,		
	Dilated cardiomyopathy due to circulating cytokines,	to 668	10.10.40	425.4	M2.0	10.10.25	Dilated cardiomyopathy,		
	Dilated cardiomyopathy due to circulating cytokines: infection induced,	to 627	10.10.60	425.4	M2.0	10.10.25	Dilated cardiomyopathy,		
	Dilated cardiomyopathy due to uraemia,	to 668	10.10.61	425.4	566	M2.0	N19	10.10.25	Dilated cardiomyopathy,
	Dilated cardiomyopathy due to Vitamin D deficiency,	to 668	10.10.62	425.4	268.9	M2.0	E55.9	10.10.25	Dilated cardiomyopathy,
	Dilated cardiomyopathy due to ischaemia,	to 668	10.10.63	414.8	25.5	10.10.25	Dilated cardiomyopathy,		
	Ischaemic dilated cardiomyopathy due to coronary arterial disease,	to 668	10.07.48	414.8	25.5	10.10.25	Dilated cardiomyopathy,		
	Dilated left ventricular cardiomyopathy,	to 668	10.10.08	425.4	M2.0	10.10.25	Dilated cardiomyopathy,		
	Dilated right ventricular cardiomyopathy,	to 668	10.10.09	425.4	M2.0	10.10.25	Dilated cardiomyopathy,		
	Dilated cardiomyopathy due to tachyarrhythmia,	to 668	10.10.31	425.9	M2.9	10.10.25	Dilated cardiomyopathy,		
	Hereditary dilated cardiomyopathy,	to 668	10.10.32	425.4	M2.0	10.10.25	Dilated cardiomyopathy,		
	Dilated cardiomyopathy with genetic marker,	to 668	14.01.24	425.4	M2.0	10.10.25	Dilated cardiomyopathy,		
	Peripartum dilated cardiomyopathy,	to 668	10.10.33	674.8	O90.3	10.10.25	Dilated cardiomyopathy,		
	Arrhythmogenic right ventricular cardiomyopathy,	to 972	07.01.10	425.4	M2.8	07.01.10	Arrhythmogenic right ventricular cardiomyopathy,		
	Dilated cardiomyopathy related abnormality,	to 1	10.10.39	746.8	Q24.8	01.01.39	Cardiac abnormality,		
659	Restrictive & infiltrative cardiomyopathies								
	Restrictive cardiomyopathy,	to 668	10.10.10	425.4	M2.5	10.10.11	Idiopathic restrictive cardiomyopathy,		
	Endocardial fibroelastosis,	to 668	10.10.12	425.3	M2.4	10.10.12	Endocardial fibroelastosis,		
	Primary right ventricular endocardial fibroelastosis,	to 1	07.01.04	425.3	M2.4	10.10.12	Endocardial fibroelastosis,		
	Primary left ventricular endocardial fibroelastosis,	to 1	07.06.04	425.3	M2.4	10.10.12	Endocardial fibroelastosis,		
	Primary right atrial endocardial fibroelastosis,	to 1	05.01.11	425.3	M2.4	10.10.12	Endocardial fibroelastosis,		
	Primary left atrial endocardial fibroelastosis,	to 1	05.02.09	425.3	M2.4	10.10.12	Endocardial fibroelastosis,		
	Idiopathic restrictive cardiomyopathy,	to 668	10.10.11	425.4	M2.5	10.10.11	Idiopathic restrictive cardiomyopathy,		
	Endomyocardial restrictive cardiomyopathy,	to 668	10.10.48	425	M2.3	10.10.12	Endocardial fibroelastosis,		
	Endomyocardial fibrosis,	to 668	10.10.49	425	M2.3	10.10.12	Endocardial fibroelastosis,		
	Endomyocardial fibrosis with hyperesinophilia (Löffler),	to 668	10.10.41	425	M2.3	10.10.12	Endocardial fibroelastosis,		
	Endomyocardial fibrosis without eosinophilia (Davies),	to 668	10.10.42	425	M2.8	10.10.12	Endocardial fibroelastosis,		
	Radiation induced endomyocardial fibrosis,	to 668	10.10.43	425.9	990	M2.7	W91.9	10.10.12	Endocardial fibroelastosis,
	Infiltrative cardiomyopathy,	to 668	10.10.13	425.4	M2.8	10.10.13	Infiltrative cardiomyopathy,		
	Infiltrative cardiomyopathy: idiopathic,	to 668	10.10.47	425.4	M2.8	10.10.13	Infiltrative cardiomyopathy,		
	Infiltrative cardiomyopathy due to sarcoidosis,	to 668	10.10.14	135†	425.8*	D86.8†	43.8*	10.10.13	Infiltrative cardiomyopathy,
	Infiltrative cardiomyopathy due to amyloidosis,	to 668	10.10.15	277.3†	425.7*	E85.9†	43.1*	10.10.13	Infiltrative cardiomyopathy,
	Infiltrative cardiomyopathy due to haemochromatosis,	to 668	10.10.16	275.0†	425.8*	E83.1†	43.8*	10.10.13	Infiltrative cardiomyopathy,
	Hereditary metabolic disorder with infiltrative cardiomyopathy,	to 668	10.10.44	277.9†	425.7*	E88.9†	43.1*	10.10.13	Infiltrative cardiomyopathy,
	Mucopolysaccharidosis cardiopathy,	to 668	10.10.45	277.5†	425.7*	E76.3†	62.8*	10.10.13	Infiltrative cardiomyopathy,
	Infiltrative cardiomyopathy due to glycogen storage disease,	to 668	10.10.46	271.0†	425.7*	E74.0†	43.1*	10.10.13	Infiltrative cardiomyopathy,
	Infiltrative cardiomyopathy due to glycogen storage disease: Pompe's,	to 668	10.10.17	271.0†	425.7*	E74.0†	43.1*	10.10.13	Infiltrative cardiomyopathy,
	Infiltrative cardiomyopathy related abnormality,	to 1	10.10.18	746.8	Q24.8	01.01.39	Cardiac abnormality,		
660	Heart muscle disease due to drugs & toxins								
	Toxin induced heart muscle disease,	to 985	10.07.54	425.9	M2.7	10.07.05	Drug induced heart muscle disease,		
	Drug induced heart muscle disease,	to 985	10.07.05	425.9	M2.7	10.07.05	Drug induced heart muscle disease,		
	Anthracycline induced heart muscle disease,	to 668	10.07.51	425.9	E930.7	M2.7	Y43.3	10.07.05	Drug induced heart muscle disease,
	Heart muscle disease due to drug hypersensitivity,	to 985	10.07.52	425.9	M2.7	10.07.05	Drug induced heart muscle disease,		
	Alcoholic cardiomyopathy,	to 668	10.07.53	425.5	M2.6	10.07.05	Drug induced heart muscle disease,		
	Toxic myocarditis,	to 985	10.07.55	422.9	H0.8	10.07.05	Drug induced heart muscle disease,		
661	Nutritional heart muscle disease								
	Nutritional heart muscle disease,	to 668	10.07.61	269.9†	425.7*	E63.9†	43.2*	10.07.61	Nutritional heart muscle disease,
	Heart disease due to thiamine deficiency (beriberi),	to 668	10.07.62	265.0†	425.7*	E51.1†	43.2*	10.07.61	Nutritional heart muscle disease,
	Heart disease due to protein-calorie malnutrition (Kwashiorkor),	to 668	10.07.63	262†	425.7*	E64.0†	43.2*	10.07.61	Nutritional heart muscle disease,
	Heart muscle disease due to carnitine deficiency,	to 668	10.07.64	269.8†	425.7*	E64.8†	43.2*	10.07.61	Nutritional heart muscle disease,
	Heart muscle disease due to selenium deficiency,	to 668	10.07.65	269.3†	425.7*	E64.8†	43.2*	10.07.61	Nutritional heart muscle disease,
	Dilated cardiomyopathy due to Vitamin D deficiency,	to 668	10.10.62	425.4	268.9	M2.0	E55.9	10.10.25	Dilated cardiomyopathy,
	Nutritional heart muscle disease related abnormality,	to 1	10.07.69	746.8	Q24.8	01.01.39	Cardiac abnormality,		
662	Heart muscle disease in metabolic and collagen vascular disorders								
	Metabolic cardiomyopathy,	to 668	10.07.70	277.9†	425.7*	E68.9†	43.2*	10.10.01	Cardiomyopathy,
	Heart muscle disease in infant of diabetic mother,	to 668	10.07.71	775.0†	425.8*	P70.1†	43.8*	10.07.71	Heart muscle disease in infant of diabetic mother,
	Heart muscle disease in hyperthyroidism,	to 668	10.07.72	242.9†	425.7*	E05.9†	43.8*	10.10.01	Cardiomyopathy,
	Heart muscle disease in hypothyroidism,	to 668	10.07.73	244.9†	425.7*	E03.9†	43.8*	10.10.01	Cardiomyopathy,
	Heart muscle disease due to catecholamines,	to 668	10.07.74	255.6†	425.7*	E27.5†	43.8*	10.10.01	Cardiomyopathy,
	Heart muscle disease in endocrine disorder,	to 668	10.07.79	259.8†	425.7*	E34.8†	43.8*	10.10.01	Cardiomyopathy,
	Heart muscle disease in collagen vascular/ connective tissue disorder,	to 668	10.07.81	710.9†	425.8*	M35.9†	43.8*	10.07.81	Heart muscle disease in collagen vascular/ connective tissue disorder,
	Heart muscle disease in lupus erythematosus,	to 668	10.07.82	710.0†	425.8*	M32.1†	43.8*	10.07.81	Heart muscle disease in collagen vascular/ connective tissue disorder,
	Heart muscle disease in juvenile chronic arthritis,	to 668	10.07.83	714.3†	425.8*	M08.9†	43.8*	10.07.81	Heart muscle disease in collagen vascular/ connective tissue disorder,
	Heart muscle disease in Behçet's disease,	to 668	10.07.84	136.1†	425.8*	M35.2†	43.8*	10.07.81	Heart muscle disease in collagen vascular/ connective tissue disorder,
668 @	Ventricular involvement & type of dysfunction in heart muscle disease - qualifiers								
	- involving only right ventricle,	to 972	Q1.31.01					not relevant	
	- involving only right or subpulmonary ventricle,	to 972	Q1.31.08					not relevant	
	- involving only left ventricle,	to 972	Q1.31.02					not relevant	
	- involving only left or systemic ventricle,	to 972	Q1.31.09					not relevant	
	- involving both ventricles,	to 972	Q1.31.03					not relevant	
	- involving both ventricles equally,	to 972	Q1.31.04					not relevant	
	- involving both ventricles: primarily right ventricle,	to 972	Q1.31.05					not relevant	
	- involving both ventricles: primarily left ventricle,	to 972	Q1.31.06					not relevant	
	- involving functional or anatomic single ventricle,	to 972	Q1.31.10					not relevant	
	- systolic dysfunction,	to 972	Q1.31.11					not relevant	
	- diastolic dysfunction,	to 972	Q1.31.12					not relevant	
	- systolic and diastolic dysfunction,	to 972	Q1.31.13					not relevant	
	- infectious,	to 972	Q1.31.07					not relevant	
	no entry	to 972	not relevant						
	End of branch								
670	Acquired coronary arterial disease								
	Postprocedural native coronary arterial complications	to 2172	not relevant						
	Postprocedural coronary arterial bypass graft (CABG) complications	to 2180	not relevant						
	Kawasaki disease	to 671	not relevant						
	Ischaemic heart disease	to 672	not relevant						
	Acquired coronary arterial disease,	to 1	10.09.10	414.9	25.9	10.09.10	Acquired coronary arterial disease,		
	Coronary arterial stenosis: acquired,	to 470	10.09.41	414.0	24.0	10.09.10	Acquired coronary arterial disease,		
	Coronary arterial ostial stenosis: acquired,	to 470	10.09.42	414.0	24.0	10.09.10	Acquired coronary arterial disease,		

Coronary arterial aneurysm: acquired - traumatic,	to 464	10.09.28	414.1	861.0	£25.4	£26.8	09.46.01	Coronary arterial aneurysm(s),
Coronary arterial aneurysm: acquired - iatrogenic,	to 464	10.09.46	414.1	E878.8	£25.4	Y83.8	09.46.01	Coronary arterial aneurysm(s),
Coronary arterial aneurysm: acquired - systemic disease,	to 464	10.09.45	414.1		£24.0		09.46.01	Coronary arterial aneurysm(s),
Coronary arterial thrombosis (not ischaemic heart disease),	to 467	10.09.12	410		£24.0		10.09.10	Acquired coronary arterial disease,
Coronary arterial embolus (not ischaemic heart disease),	to 467	10.09.13	410		£24.0		10.09.10	Acquired coronary arterial disease,
Acquired coronary occlusion (not ischaemic heart disease),	to 467	10.09.14	410		£24.0		10.09.10	Acquired coronary arterial disease,
Coronary arterial dissection,	to 467	10.09.15	447.2		£77.2		10.09.10	Acquired coronary arterial disease,
Coronary arterial spasm,	to 467	10.09.50	413		£20.1		10.09.10	Acquired coronary arterial disease,
Accelerated atherosclerosis in progeria,	to 1	10.09.16	259.8	440.9	£34.8	£70.9	10.09.10	Acquired coronary arterial disease,
Accelerated atherosclerosis,	to 1	10.09.17	440.9		£70.9		10.09.10	Acquired coronary arterial disease,
Coronary disease in infantile arterial calcification,	to 1	10.09.18	414.8		£25.1		10.09.10	Acquired coronary arterial disease,
Coronary disease in infantile polyarteritis nodosa,	to 1	10.09.19	446	447.8	£30.2	£79.8	10.09.10	Acquired coronary arterial disease,
Coronary artery obstruction by tumour,	to 720	10.09.51	414.8		£77.8		10.09.10	Acquired coronary arterial disease,
Coronary arteritis,	to 1	10.09.20	414.0		£25.1		10.09.10	Acquired coronary arterial disease,
Coronary arterial calcinosis,	to 1	10.09.48	414.8		£25.1		10.09.10	Acquired coronary arterial disease,
Coronary arterial laceration,	to 1	10.09.49	414.8		£25.1		10.09.10	Acquired coronary arterial disease,
Acquired coronary arterial disease related abnormality,	to 1	10.09.29	746.8		£24.8		01.01.39	Cardiac abnormality,
Coronary fistula: acquired,	to 463	10.09.21	414.8		£25.1		09.45.01	Coronary fistula,
Coronary fistula: acquired - single,	to 463	10.09.22	414.8		£25.4		09.45.01	Coronary fistula,
Coronary fistula: acquired - multiple,	to 463	10.09.23	414.8		£25.4		09.45.01	Coronary fistula,
Coronary fistula: acquired - infectious,	to 463	10.09.24	414.8	136.9	£25.4	£89	09.45.01	Coronary fistula,
Coronary fistula: acquired - traumatic,	to 463	10.09.25	414.8	861.0	£25.4	£26.8	09.45.01	Coronary fistula,
Coronary fistula: acquired - iatrogenic,	to 463	10.09.26	414.8	E878.8	£25.4	Y83.8	09.45.01	Coronary fistula,
Cardiac transplant associated coronary allograft vasculopathy,	to 1	15.41.13	414	996.8	£25.1	£86.2	15.41.13	Cardiac transplant associated coronary allograft vasculopathy,
Coronary atherosclerosis in transplanted heart,	to 1	15.95.27	414	996.8	£25.1	£86.2	10.09.10	Acquired coronary arterial disease,

671 Kawasaki disease

Kawasaki disease,	to 1	10.09.01	446.1		£30.3		10.09.01	Kawasaki disease,
Kawasaki disease with cardiac involvement,	to 1	10.09.00	446.1	429.9	£30.3	£51.9	10.09.02	Kawasaki disease with aneurysm(s) or dilated coronary vessels,
Kawasaki disease without cardiac involvement,	to 1	10.09.08	446.1		£30.3		10.09.08	Kawasaki disease without cardiac involvement,
Kawasaki disease with coronary aneurysm(s),	to 464	10.09.47	446.1	414.1	£30.3	£25.4	10.09.02	Kawasaki disease with aneurysm(s) or dilated coronary vessels,
Kawasaki disease with aneurysm(s) or dilated coronary vessels,	to 464	10.09.02	446.1	414.1	£30.3	£25.4	10.09.02	Kawasaki disease with aneurysm(s) or dilated coronary vessels,
Kawasaki disease with aneurysm or dilation other arteries,	to 1	10.09.03	446.1	442.9	£30.3	£72.9	10.09.01	Kawasaki disease,
Kawasaki disease with myocardial infarction,	to 672	10.09.07	446.1	410	£30.3	£21.9	10.09.02	Kawasaki disease with aneurysm(s) or dilated coronary vessels,
Kawasaki disease with thrombotic coronary vessels,	to 464	10.09.04	446.1	410	£30.3	£24.0	10.09.02	Kawasaki disease with aneurysm(s) or dilated coronary vessels,
Kawasaki disease with coronary stenosis,	to 464	10.09.09	446.1	414.9	£30.3	£25.9	10.09.01	Kawasaki disease,
Kawasaki disease with thrombosis other arteries,	to 1	10.09.05	446.1	444.9	£30.3	£74.9	10.09.01	Kawasaki disease,
Kawasaki disease related abnormality,	to 1	10.09.06	746.8		£24.8		01.01.39	Cardiac abnormality,

672 Ischaemic heart disease

Ischaemic heart disease,	to 1	10.09.30	414.9		£25.9		10.09.30	Ischaemic heart disease,
Coronary atherosclerosis,	to 1	10.18.20	414.0		£25.1		10.09.30	Ischaemic heart disease,
Coronary thrombosis-occlusion not leading to infarction,	to 1	10.09.36	411		£24.0		10.09.30	Ischaemic heart disease,
Stable angina,	to 1	10.09.31	413		£20.9		10.12.51	Angina pectoris,
Unstable angina,	to 1	10.09.32	411		£20.0		10.12.51	Angina pectoris,
Prinzmetal angina,	to 1	10.09.33	411		£20.0		10.12.51	Angina pectoris,
Chest pain with normal coronary angiography (Syndrome X),	to 1	10.09.34	413		£25.8		10.12.51	Angina pectoris,
Anginal symptoms	to 755	not relevant						
Silent myocardial ischaemia,	to 1	10.09.35	411		£25.6		10.09.30	Ischaemic heart disease,
Myocardial infarction,	to 1	10.18.00	410		£21.9		10.18.00	Myocardial infarction,
Acute coronary syndrome,	to 1	10.18.25	410		£21.9		10.18.00	Myocardial infarction,
Acute coronary syndrome: myocardial infarct with ST elevation (STEMI),	to 675	10.18.26	410		£21.9		10.18.00	Myocardial infarction,
Acute coronary syndrome: myocardial infarct without ST elevation (NSTEMI),	to 675	10.18.27	410		£21.9		10.18.00	Myocardial infarction,
Myocardial infarction: spontaneous due to primary coronary event (Type 1),	to 675	10.18.28	410		£21.9		10.18.00	Myocardial infarction,
Myocardial infarction: secondary to ischaemia due to increased oxygen demand or decreased supply (Type 2),	to 675	10.18.40	410		£21.9		10.18.00	Myocardial infarction,
Myocardial infarction: sudden unexpected cardiac death (Type 3),	to 675	10.18.41	410		£21.9		10.18.00	Myocardial infarction,
Myocardial infarction: associated with percutaneous coronary intervention (Type 4a),	to 675	10.18.42	410		£21.9		10.18.00	Myocardial infarction,
Myocardial infarction: associated with coronary stent thrombosis (Type 4b),	to 675	10.18.43	410		£21.9		10.18.00	Myocardial infarction,
Myocardial infarction: associated with coronary artery bypass graft procedure (Type 5),	to 675	10.18.44	410		£21.9		10.18.00	Myocardial infarction,
Silent myocardial infarction,	to 1	10.09.37	410		£21.9		10.18.00	Myocardial infarction,
Acute myocardial infarction	to 675	not relevant						
Old myocardial infarction	to 676	not relevant						
Postmyocardial infarction complications	to 677	not relevant						
Myocardial infarction related to procedure	to 1880	not relevant						

675 Acute myocardial infarction

Acute myocardial infarction,	to 678	10.18.01	410		£21.9		10.18.01	Acute myocardial infarction,
Acute myocardial infarction: antero-septal Q wave,	to 678	10.18.02	410		£21.0		10.18.01	Acute myocardial infarction,
Acute myocardial infarction: anterolateral Q wave,	to 678	10.18.03	410		£21.0		10.18.01	Acute myocardial infarction,
Acute myocardial infarction: inferior Q wave,	to 678	10.18.04	410		£21.1		10.18.01	Acute myocardial infarction,
Acute myocardial infarction: inferolateral Q wave,	to 678	10.18.05	410		£21.1		10.18.01	Acute myocardial infarction,
Acute myocardial infarction: lateral Q wave,	to 678	10.18.06	410		£21.2		10.18.01	Acute myocardial infarction,
Acute myocardial infarction: wide-spread Q wave,	to 678	10.18.07	410		£21.3		10.18.01	Acute myocardial infarction,
Acute myocardial infarction: antero-septal non Q wave,	to 678	10.18.11	410		£21.0		10.18.01	Acute myocardial infarction,
Acute myocardial infarction: anterolateral non Q wave,	to 678	10.18.12	410		£21.0		10.18.01	Acute myocardial infarction,
Acute myocardial infarction: inferior non Q wave,	to 678	10.18.13	410		£21.1		10.18.01	Acute myocardial infarction,
Acute myocardial infarction: inferolateral non Q wave,	to 678	10.18.14	410		£21.1		10.18.01	Acute myocardial infarction,
Acute myocardial infarction: lateral non Q wave,	to 678	10.18.15	410		£21.2		10.18.01	Acute myocardial infarction,
Acute myocardial infarction: posterior non Q wave,	to 678	10.18.16	410		£21.2		10.18.01	Acute myocardial infarction,
Acute myocardial infarction: wide-spread non Q wave,	to 678	10.18.17	410		£21.3		10.18.01	Acute myocardial infarction,
Acute myocardial infarction: indeterminate,	to 678	10.18.18	410		£21.3		10.18.01	Acute myocardial infarction,
Acute myocardial infarction related abnormality,	to 678	10.18.29	746.8		£24.8		01.01.39	Cardiac abnormality,

676 Old myocardial infarction

Old myocardial infarction,	to 678	10.18.31	412		£25.2		10.18.00	Myocardial infarction,
Old myocardial infarction: antero-septal,	to 678	10.18.32	412		£25.2		10.18.00	Myocardial infarction,
Old myocardial infarction: anterolateral,	to 678	10.18.33	412		£25.2		10.18.00	Myocardial infarction,
Old myocardial infarction: inferior,	to 678	10.18.34	412		£25.2		10.18.00	Myocardial infarction,
Old myocardial infarction: inferolateral,	to 678	10.18.35	412		£25.2		10.18.00	Myocardial infarction,
Old myocardial infarction: lateral,	to 678	10.18.36	412		£25.2		10.18.00	Myocardial infarction,
Old myocardial infarction: posterior,	to 678	10.18.37	412		£25.2		10.18.00	Myocardial infarction,
Old myocardial infarction: wide-spread,	to 678	10.18.38	412		£25.2		10.18.00	Myocardial infarction,
Old myocardial infarction: indeterminate,	to 678	10.18.39	412		£25.2		10.18.00	Myocardial infarction,
Old myocardial infarction related abnormality,	to 678	10.18.49	746.8		£24.8		01.01.39	Cardiac abnormality,

677 Postmyocardial infarction complications

Postmyocardial infarction complication,	to 1	10.18.24	411		£23.8		10.18.24	Postmyocardial infarction complication,
Postinfarction cardiac rupture,	to 1	10.09.38	410		£23.3		10.18.24	Postmyocardial infarction complication,
Postmyocardial infarction ventricular rupture,	to 1	10.18.23	410		£23.3		10.18.24	Postmyocardial infarction complication,
Pericarditis after myocardial infarct (Post M syndrome/ Dressler),	to 1	10.08.25	411		£24.1		10.08.00	Pericarditis,
Postmyocardial infarct ventricular septal defect (VSD),	to 1	10.16.62	410		£23.2		10.16.62	Postmyocardial infarct ventricular septal defect (VSD),
Postmyocardial infarction arrhythmia,	to 800	10.09.40	410		£23.8		11.00.00	Arrhythmia,
Postmyocardial infarction cardiogenic shock,	to 1	10.09.39	785.5		£57.0		10.18.24	Postmyocardial infarction complication,
Postmyocardial infarction acquired mural thrombus,	to 902	10.18.21	410		£23.6		10.18.24	Postmyocardial infarction complication,
Postmyocardial infarction ventricular aneurysm,	to 1	10.18.22	414.1	410	£25.3	£23.8	10.18.24	Postmyocardial infarction complication,
Postmyocardial infarction complications	to 650	not relevant						
Postmyocardial infarction atrioventricular valve & papillary muscle complications	to 640	not relevant						

678 @ Myocardial infarct site qualifiers

- anterior wall,	to 1	Q1.31.50					not relevant	
- anterolateral wall,	to 1	Q1.31.51					not relevant	
- inferior wall,	to 1	Q1.31.52					not relevant	
- inferolateral wall,	to 1	Q1.31.53					not relevant	
- inferoposterior wall,	to 1	Q1.31.54					not relevant	
- lateral wall,	to 1	Q1.31.55					not relevant	
- true posterior wall,	to 1	Q1.31.56					not relevant	
- right ventricle,	to 1	Q1.31.57					not relevant	
- subendocardial,	to 1	Q1.31.58					not relevant	
- site unspecified,	to 1	Q1.31.59					not relevant	
no entry	to 1	not relevant						

End of branch

679 Acquired common arterial trunk abnormalities

Postprocedural common arterial trunk & truncal valvar complications & sequelae	to 2105	not relevant						
Common arterial trunk (truncus) abnormality: acquired,	to 2910	10.51.01	447.8		£77.8		10.51.01	Common arterial trunk (truncus) abnormality: acquired,
Common arterial trunk (truncus) dilation,	to 1	10.51.02	442.8		£72.8		10.51.01	Common arterial trunk (truncus) abnormality: acquired,
Common arterial trunk (truncus) aneurysm,	to 1	10.51.03	442.8		£72.8		10.51.01	Common arterial trunk (truncus) abnormality: acquired,
Common arterial trunk (truncus) dissection,	to 1	10.51.04	447.8		£77.8		10.51.01	Common arterial trunk (truncus) abnormality: acquired,
Common arterial trunk (truncus) acquired stenosis,	to 1	10.51.05	447.8		£77.8		10.51.01	Common arterial trunk (truncus) abnormality: acquired,
Common arterial trunk (truncus) false aneurysm,	to 1	10.51.06	447.8		£77.8		10.51.01	Common arterial trunk (truncus) abnormality: acquired,
Abscess in common trunk wall,	to 627	10.06.40	422.9		£51.8		10.06.20	Heart abscess,

End of branch

680 Acquired pulmonary arterial abnormalities & pulmonary hypertension

Postprocedural pulmonary trunk-RPA-LPA complications & sequelae	to 2114	not relevant				
Infection-thrombosis-laceration-perforation-rupture of pulmonary trunk-pulmonary arteries	to 2150	not relevant				
Pulmonary hypertension	to 681	not relevant				
Pulmonary vascular disease	to 684	not relevant				
Pulmonary embolus and thromboembolic disease	to 686	not relevant				
Pulmonary oedema	to 687	not relevant				
Pulmonary arterial abnormality: acquired,	to 353	10.13.59	417.9	28.8	10.13.50	Pulmonary arterial disease: acquired,
Pulmonary arterial disease: acquired,	to 1	10.13.50	417.9	28.9	10.13.50	Pulmonary arterial disease: acquired,
Pulmonary infarct,	to 3300	10.13.55	415.1	26.9	10.13.50	Pulmonary arterial disease: acquired,
Pulmonary vessel rupture,	to 353	10.13.56	417.8	28.8	10.13.50	Pulmonary arterial disease: acquired,
Supravalvar pulmonary trunk stenosis: acquired,	to 960	10.13.75	417.8	28.8	09.07.13	Supravalvar pulmonary trunk stenosis,
Recurrent pulmonary trunk stenosis,	to 960	10.13.41	417.8	28.8	09.07.13	Supravalvar pulmonary trunk stenosis,
Pulmonary arterial aneurysm: acquired,	to 353	10.13.66	417.8	28.8	09.10.01	Pulmonary arterial stenosis,
Pulmonary arterial acquired obstruction,	to 370	10.13.67	417.8	28.8	09.10.01	Pulmonary arterial stenosis,
Right pulmonary arterial stenosis: acquired,	to 353	10.13.68	417.8	28.8	10.13.68	Right pulmonary arterial stenosis: acquired,
Left pulmonary arterial stenosis: acquired,	to 353	10.13.69	417.8	28.8	10.13.69	Left pulmonary arterial stenosis: acquired,
Recurrent right pulmonary arterial stenosis,	to 353	10.13.42	417.8	28.8	10.13.68	Right pulmonary arterial stenosis: acquired,
Recurrent left pulmonary arterial stenosis,	to 353	10.13.43	417.8	28.8	10.13.69	Left pulmonary arterial stenosis: acquired,
Pulmonary arterial branch occlusion,	to 353	10.13.70	417.8	28.8	09.10.01	Pulmonary arterial stenosis,
Acquired pulmonary arteriovenous fistulas (malformations),	to 3300	10.13.57	417.0	28.0	09.19.01	Arteriovenous fistula (malformation),
Pulmonary arteritis,	to 1	10.13.58	417.0	28.8	10.13.50	Pulmonary arterial disease: acquired,
Pulmonary capillary haemangiomas,	to 1	10.13.54	228	M913.0/0	D18.0	M913.0/0
Acquired pulmonary arterial dilation,	to 353	10.13.60	417.8	28.8	10.13.50	Pulmonary arterial disease: acquired,
Post-stenotic pulmonary dilation,	to 353	10.13.61	417.8	28.8	10.13.50	Pulmonary arterial disease: acquired,
Pulmonary arterial aneurysm: acquired,	to 353	10.13.62	417.1	28.1	09.10.44	Pulmonary arterial aneurysm,
Elevated lung resistance for biventricular repair (over 6 Wood units),	to 1	10.13.63	416.8	27.8	10.13.63	Elevated lung resistance for biventricular repair (over 6 Wood units),
Elevated lung resistance for heart transplant (over 4 Wood units),	to 1	10.13.64	416.8	27.8	10.13.64	Elevated lung resistance for heart transplant (over 4 Wood units),
Elevated lung resistance for univentricular repair (over 2 Wood units),	to 1	10.13.65	416.8	27.8	10.13.65	Elevated lung resistance for univentricular repair (over 2 Wood units),

681 Pulmonary hypertension

Pulmonary hypertension,	to 685	10.13.83	416.8	27.0	10.13.01	Pulmonary arterial hypertension,
Pulmonary arterial hypertension,	to 685	10.13.01	416.8	27.0	10.13.01	Pulmonary arterial hypertension,
Primary pulmonary hypertension,	to 685	10.13.02	416	27.0	10.13.02	Primary pulmonary hypertension,
Sporadic primary pulmonary hypertension,	to 685	10.13.81	416	27.0	10.13.02	Primary pulmonary hypertension,
Familial primary pulmonary hypertension,	to 685	10.13.82	416	27.0	10.13.02	Primary pulmonary hypertension,
Persistent pulmonary hypertension of the newborn (PPH),	to 1	10.15.01	747.9	P29.3	10.15.01	Persistent pulmonary hypertension of the newborn (PPH),
Preprocedural pulmonary hypertension,	to 685	10.20.16	518.5	35.8	10.20.16	Preprocedural pulmonary hypertension,
Secondary pulmonary hypertension,	to 685	10.13.20	416.8	27.8	10.13.20	Secondary pulmonary hypertension,
Pulmonary hypertension with low resistance,	to 685	10.13.94	416.8	27.0	10.13.01	Pulmonary arterial hypertension,
Pulmonary hypertension with high resistance,	to 685	10.13.95	416.8	27.0	10.13.01	Pulmonary arterial hypertension,
Pulmonary hypertension due to hypoxemia, lung, chest wall & airways disease	to 682	not relevant				
Pulmonary hypertension due to cardiovascular disease	to 683	not relevant				
Pulmonary venous hypertension	to 633	not relevant				
Postprocedural residual pulmonary hypertension,	to 685	15.80.27	416.8	E878.8	27.8	Y83.8
Drug or toxin induced pulmonary hypertension,	to 685	10.13.25	416.8	995.2	27.8	T88.7
Pulmonary hypertension due to collagen vascular disease,	to 685	10.13.85	416.8	446.2	27.8	M35.9
Pulmonary hypertension due to portal hypertension,	to 685	10.13.86	416.8	572.3	27.8	K76.6
Pulmonary hypertension due to HIV infection,	to 685	10.13.87	416.8	79.8	27.8	B33.3

682 Pulmonary hypertension due to hypoxemia, lung, chest wall & airways disease

Pulmonary hypertension due to respiratory disease,	to 685	10.13.90	416.8	27.8	10.13.20	Secondary pulmonary hypertension,
Pulmonary hypertension due to chronic hypoxia,	to 685	10.13.04	416.8	27.8	10.13.20	Secondary pulmonary hypertension,
Pulmonary hypertension due to neurogenic hypoventilation/ sleep disordered breathing,	to 685	10.13.24	416.8	780.5	27.8	G47.3
Pulmonary hypertension due to chronic obstructive pulmonary disease,	to 685	10.13.26	416.8	496	27.8	J44.9
Pulmonary hypertension due to interstitial lung disease,	to 685	10.13.27	416.8	496	27.8	J44.9
Pulmonary hypertension due to sarcoidosis,	to 685	10.13.28	416.8	135	27.8	D86.0
Pulmonary hypertension due to extreme obesity (Pickwickian),	to 685	10.13.29	416.8	278.8	27.0	E66.2
Pulmonary hypertension due to neuromuscular disease,	to 685	10.13.30	416.8	358.9	27.8	G70.9
Pulmonary hypertension due to kyphoscoliosis,	to 685	10.13.31	416.1	756.1	27.1	O67.5
Pulmonary hypertension due to pharyngeal-tracheal obstruction,	to 685	10.13.32	416.8	27.8	10.13.20	Secondary pulmonary hypertension,
Pulmonary hypertension due to parasitic disease,	to 685	10.13.33	416.8	136.9	27.8	B89
Pulmonary hypertension due to high altitude,	to 685	10.13.37	416.8	993.2	27.8	T70.2
Pulmonary hypertension due to alveolar capillary dysplasia,	to 685	10.13.88	416.8	27.8	10.13.20	Secondary pulmonary hypertension,
Pulmonary hypertension due to neonatal lung disease,	to 685	10.13.89	416.8	27.8	10.13.20	Secondary pulmonary hypertension,
Pulmonary hypertension due to alveolar hypoventilation,	to 685	10.13.91	416.8	27.8	10.13.20	Secondary pulmonary hypertension,
Pulmonary hypertension due to schistosomiasis,	to 685	10.13.92	416.8	B65.9	27.8	120.9

683 Pulmonary hypertension due to cardiovascular disease

Pulmonary hypertension due to pulmonary vascular disease	to 684	not relevant				
Pulmonary hypertension due to cardiovascular disease,	to 685	10.13.46	416.8	27.8	10.13.20	Secondary pulmonary hypertension,
Pulmonary hypertension due to congenital heart disease,	to 685	10.13.39	416.8	746.9	27.8	Q24.9
Pulmonary hypertension due to pulmonary vascular disorder,	to 685	10.13.40	416.8	417.8	27.8	28.8
Pulmonary hypertension due to inflammatory pulmonary vascular disorder,	to 685	10.13.44	416.8	417.8	27.8	28.8
Pulmonary hypertension due to left to right shunt,	to 685	10.13.21	416.8	27.8	10.13.21	Pulmonary hypertension due to left to right shunt,
Pulmonary hypertension due to overgenerous systemic-to-pulmonary arterial shunt,	to 3300	10.13.22	416.8	E878.8	27.8	Y83.8
Pulmonary hypertension due to uninhibited systemic-pulmonary collateral flow,	to 3300	10.13.23	416.8	E878.8	27.8	10.13.21
Pulmonary hypertension due to chronic thromboembolism,	to 686	10.13.38	416.8	415.1	27.8	E6.9
Pulmonary hypertension due to chest wall disease,	to 685	10.13.45	416.8	27.8	10.13.20	Secondary pulmonary hypertension,
Residual pulmonary hypertension after relief of left to right shunt,	to 685	15.22.31	416.8	E878.8	27.8	Y83.8
Residual nonobstructive pulmonary hypertension after repair,	to 685	15.22.32	416.8	E878.8	27.8	Y83.8

684 Pulmonary vascular disease

Pulmonary vascular disease,	to 1	10.13.06	416.8	27.8	10.13.06	Pulmonary vascular disease,
Reversible pulmonary vascular disease,	to 3300	10.13.07	416.8	27.8	10.13.06	Pulmonary vascular disease,
Potentially reversible pulmonary vascular disease,	to 3300	10.13.19	416.8	27.8	10.13.06	Pulmonary vascular disease,
Irreversible pulmonary vascular disease,	to 3300	10.13.00	416.8	27.8	10.13.06	Pulmonary vascular disease,
Irreversible pulmonary vascular disease due to congenital heart disease (Eisenmenger Syndrome),	to 3300	10.13.08	416.8	27.8	10.13.08	Irreversible pulmonary vascular disease due to congenital heart disease (Eisenmenger Syndrome),
Irreversible pulmonary vascular disease due to malaligned ventricular septal defect (VSD) (Eisenmenger Complex),	to 3300	10.13.93	416.8	27.8	10.13.08	Irreversible pulmonary vascular disease due to malaligned ventricular septal defect (VSD) (Eisenmenger Complex),
Pulmonary vascular disease Heath & Edwards stage 1,	to 1	10.13.09	416.8	27.8	10.13.06	Pulmonary vascular disease,
Pulmonary vascular disease Heath & Edwards stage 2,	to 1	10.13.10	416.8	27.8	10.13.06	Pulmonary vascular disease,
Pulmonary vascular disease Heath & Edwards stage 3,	to 1	10.13.11	416.8	27.8	10.13.06	Pulmonary vascular disease,
Pulmonary vascular disease Heath & Edwards stage 4,	to 1	10.13.12	416.8	27.8	10.13.06	Pulmonary vascular disease,
Pulmonary vascular disease Heath & Edwards stage 5,	to 1	10.13.13	416.8	27.8	10.13.06	Pulmonary vascular disease,
Pulmonary vascular disease Heath & Edwards stage 6,	to 1	10.13.14	416.8	27.8	10.13.06	Pulmonary vascular disease,
Pulmonary vascular disease: abnormal extension muscle to small pulmonary arteries (Rabinovitch-Haworth Type A),	to 1	10.13.16	416.8	27.8	10.13.06	Pulmonary vascular disease,
Pulmonary vascular disease: increased thickness medial muscular coat ((Rabinovitch-Haworth Type B),	to 1	10.13.17	416.8	27.8	10.13.06	Pulmonary vascular disease,
Pulmonary vascular disease: decreased number small peripheral pulmonary arteries ((Rabinovitch-Haworth Type C),	to 1	10.13.18	416.8	27.8	10.13.06	Pulmonary vascular disease,
Pulmonary vascular disease related abnormality,	to 1	10.13.15	746.8	Q24.8	01.01.39	Cardiac abnormality,

685 @ Severity of pulmonary hypertension - qualifiers

- pulmonary pressure under 1/3 systemic pressure,	to 1	Q1.13.70				not relevant
- pulmonary pressure 1/3 to 2/3 of systemic pressure,	to 1	Q1.13.71				not relevant
- pulmonary pressure over 2/3 to equal to systemic pressure,	to 1	Q1.13.72				not relevant
- pulmonary pressure greater than systemic pressure,	to 1	Q1.13.73				not relevant
- severity of pulmonary hypertension (DESCRIBE),	to 1	Q1.13.79				not relevant
no entry	to 1	not relevant				

686 Pulmonary embolus and thromboembolic disease

Pulmonary arterial tree thrombosis,	to 353	09.12.01	415.1	26.9	10.13.51	Pulmonary embolism,
Pulmonary embolism,	to 353	10.13.51	415.1	26.9	10.13.51	Pulmonary embolism,
Right pulmonary artery embolism,	to 353	10.13.52	415.1	26.9	10.13.51	Pulmonary embolism,
Left pulmonary artery embolism,	to 353	10.13.53	415.1	26.9	10.13.51	Pulmonary embolism,
Pulmonary arterial tree embolus - discrete,	to 353	09.12.02	415.1	26.9	10.13.51	Pulmonary embolism,
Pulmonary arterial tree embolus - massive,	to 353	09.12.03	415.1	26.9	10.13.51	Pulmonary embolism,
Pulmonary arterial tree embolus - distal,	to 353	09.12.04	415.1	26.9	10.13.51	Pulmonary embolism,
Pulmonary arterial tree embolus - proximal,	to 353	09.12.05	415.1	26.9	10.13.51	Pulmonary embolism,
Chronic thromboembolic disease,	to 685	10.30.51	415.1	26.9	10.13.51	Pulmonary embolism,
Chronic thromboembolic disease - thrombus,	to 685	10.30.52	415.1	26.9	10.13.51	Pulmonary embolism,
Chronic thromboembolic disease - tumour,	to 685	10.30.53	415.1	239.9	26.9	D48.9
Chronic thromboembolic disease - parasite,	to 685	10.30.54	415.1	136.9	26.9	B89
Chronic thromboembolic disease - foreign material,	to 685	10.30.55	415.1	26.9	10.13.51	Pulmonary embolism,
Chronic thromboembolic disease - tickle cell disease,	to 685	10.30.56	415.1	282.6	26.9	D57.1
Chronic thromboembolic disease related abnormality,	to 685	10.30.59	746.8	Q24.8	01.01.39	Cardiac abnormality,

687 Pulmonary oedema

Pulmonary oedema,	to 1	10.30.30	514	J81	10.30.30	Pulmonary oedema,
Pulmonary oedema: acute,	to 1	10.30.31	514	J81	10.30.30	Pulmonary oedema,
Pulmonary oedema due to increased pulmonary capillary pressure,	to 1	10.30.32	428.1	50.1	10.30.30	Pulmonary oedema,
Pulmonary oedema due to increased pulmonary capillary pressure: left ventricular failure,	to 1	10.30.33	428.1	50.1	10.30.30	Pulmonary oedema,
Pulmonary oedema due to increased pulmonary capillary pressure: left ventricular inflow obstruction,	to 1	10.30.34	428.1	50.1	10.30.30	Pulmonary oedema,

Pulmonary oedema due to increased pulmonary capillary pressure: obstructed pulmonary venous return,	to 1	10.30.35	428.1		I50.1	10.30.30	Pulmonary oedema,
Pulmonary oedema following rapid re-expansion of pneumothorax (increased negative interstitial pressure),	to 1	10.30.36	514		J81	10.30.30	Pulmonary oedema,
Pulmonary oedema due to alveolar-capillary barrier damage (acute respiratory distress syndrome),	to 1	10.30.37	514		J81	10.30.30	Pulmonary oedema,
Pulmonary oedema due to lymphatic insufficiency,	to 1	10.30.38	514		J81	10.30.30	Pulmonary oedema,
High altitude pulmonary oedema,	to 1	10.30.39	514		J81	T70.2	Pulmonary oedema,
Pulmonary oedema: after cardiopulmonary bypass,	to 1	10.30.40	514	E878.8	J81	Y83.8	Pulmonary oedema,
Pulmonary oedema: postprocedural,	to 1	15.80.47	514	E878.8	J81	Y83.8	Pulmonary oedema,

End of branch

689 Acquired aorto-pulmonary window and complications

Postprocedural aorto-pulmonary window complications	to 2125	not relevant					
Aorto-pulmonary window - acquired,	to 966	10.20.80	745		I51.0	10.14.70	Abnormality of aorta: acquired,
Residual aorto-pulmonary window,	to 966	15.36.10	745	E878.8	Q21.4	Y83.8	15.36.01 Postprocedural ascending aorta complication,
Recurrent aorto-pulmonary window,	to 966	15.36.12	745	E878.8	Q21.4	Y83.8	15.36.01 Postprocedural ascending aorta complication,
Aorto-pulmonary window - acquired: surgical,	to 966	10.20.86	745	E878.8	Q21.4	Y83.8	15.36.01 Postprocedural ascending aorta complication,
Aorto-pulmonary window - acquired: surgical intentional (central shunt),	to 966	10.20.81	745	E878.8	I51.0	Y83.8	10.14.70 Abnormality of aorta: acquired,
Aorto-pulmonary window - acquired: surgical inadvertent,	to 966	10.20.82	745	E878.8	I51.0	Y83.8	15.36.01 Postprocedural ascending aorta complication,
Aorto-pulmonary window - acquired: iatrogenic postcatheter,	to 966	10.20.83	745	E879.0	I51.0	Y84.0	15.36.01 Postprocedural ascending aorta complication,
Aorto-pulmonary window - acquired: traumatic,	to 966	10.20.84	861.0		S26.8	10.90.01	Traumatic injury of heart,
Infective endarteritis at site of aorto-pulmonary window,	to 1	10.20.85	421.9		I33.0	10.06.01	Infective endocarditis,
Characteristics of pulmonary-systemic blood flow (including Qp:Qs) - qualifiers	to 975	not relevant					

End of branch

690 Acquired aortic & systemic arterial abnormalities

Systemic hypertension	to 691	not relevant						
Postprocedural aortic bleeding complications	to 1908	not relevant						
Postprocedural infection/thrombosis/laceration/perforation/rupture of aorta	to 2150	not relevant						
Postprocedural aortic complications & sequelae	to 2120	not relevant						
Aortic dilation, aneurysms, rupture and dissection	to 693	not relevant						
Acquired arterial duct (PDA) abnormalities	to 694	not relevant						
Acquired systemic-to-pulmonary arterial abnormalities	to 695	not relevant						
Acquired abnormalities at aortic coarctation site	to 696	not relevant						
Acquired aorto-ventricular tunnel	to 383	not relevant						
Acquired systemic and peripheral arterial disease	to 700	not relevant						
Abnormality of aorta: acquired,	to 699	10.14.70	447.8		I77.8	10.14.70	Abnormality of aorta: acquired,	
Aortic obstruction: acquired,	to 699	10.25.09	447.8		I77.8	10.14.70	Abnormality of aorta: acquired,	
Aortic thrombosis (complete luminal obstruction),	to 699	10.77.01	444.1		I74.1	10.14.70	Abnormality of aorta: acquired,	
Thrombus in aorta,	to 699	10.77.02	444.1		I74.1	10.14.70	Abnormality of aorta: acquired,	
Supravalvular aortic stenosis: acquired,	to 960	10.14.77	447.1		I77.1	10.14.77	Supravalvular aortic stenosis: acquired,	
Recurrent ascending aorta stenosis,	to 690	10.14.71	447.1		I77.1	10.14.77	Supravalvular aortic stenosis: acquired,	
Recurrent leak from repaired aortic sinus of Valsalva ruptured aneurysm,	to 1	10.14.73	441.5		I71.9	15.36.01	Postprocedural ascending aorta complication,	
Paradoxical arterial embolus,	to 1	10.14.74	444.9		I74.9	14.03.00	Noncardiac abnormality associated with heart disease,	
Calcification of aorta,	to 1	10.25.00	440		I70.0	10.14.70	Abnormality of aorta: acquired,	
Calcification of ascending aorta,	to 1	10.25.05	440		I70.0	10.14.70	Abnormality of aorta: acquired,	
Calcification of aortic arch,	to 1	10.25.08	440		I70.0	10.14.70	Abnormality of aorta: acquired,	
Calcification of descending aorta,	to 1	10.25.06	440		I70.0	10.14.70	Abnormality of aorta: acquired,	
Calcification of abdominal aorta,	to 1	10.25.07	440		I70.0	10.14.70	Abnormality of aorta: acquired,	
Calcification of aorta: porcelain aorta,	to 699	10.25.21	440		I70.0	10.14.70	Abnormality of aorta: acquired,	
Aortitis,	to 627	10.14.64	447.6		I77.6	10.14.70	Abnormality of aorta: acquired,	
Aortitis: bacterial,	to 627	10.14.65	447.6	41.9	I77.6	B96.8	10.14.70	Abnormality of aorta: acquired,
Aortitis: syphilitic,	to 627	10.14.66	093.1†	447.7*	A52.0†	I79.1*	10.14.70	Abnormality of aorta: acquired,
Aortitis: viral,	to 627	10.14.67	447.6	79.9	I77.6	B33.8	10.14.70	Abnormality of aorta: acquired,
Aortitis: autoimmune,	to 627	10.14.68	447.6	279.4	I77.6	M35.9	10.14.70	Abnormality of aorta: acquired,
Infective endarteritis of aorta (aortitis),	to 615	10.06.55	421.9		I33.0	10.06.01	Infective endocarditis,	
Aortic wall haematoma,	to 699	10.14.76	447.8		I77.8	10.14.70	Abnormality of aorta: acquired,	

691 Systemic hypertension

Systemic hypertension,	to 982	10.14.01	401.9		I10	10.14.01	Systemic hypertension,
Primary (essential) systemic hypertension,	to 982	10.14.02	401.9		I10	10.14.02	Primary (essential) systemic hypertension,
Malignant essential systemic hypertension,	to 982	10.14.07	401		I10	10.14.02	Primary (essential) systemic hypertension,
Benign essential systemic hypertension,	to 982	10.14.27	401		I10	10.14.02	Primary (essential) systemic hypertension,
Hypertensive heart disease,	to 982	10.14.08	402.9		I11.9	10.14.01	Systemic hypertension,
Hypertensive heart disease with heart failure,	to 982	10.14.24	402.9		I11.0	10.14.01	Systemic hypertension,
White coat systemic hypertension,	to 1	10.14.09	401.9		I10	10.14.01	Systemic hypertension,
Labile systemic hypertension,	to 982	10.14.10	401.9		I10	10.14.01	Systemic hypertension,
Secondary systemic hypertension,	to 982	10.14.00	405.9		I15.9	10.14.00	Secondary systemic hypertension,
Causes of systemic hypertension,	to 692	not relevant					
Familial dysautonomia (Riley-Day),	to 982	10.14.21	742.8		G90.1	10.23.04	Hereditary disorder associated with heart disease,
Systemic hypertension related abnormality,	to 1	10.14.06	746.8		Q24.8	01.01.39	Cardiac abnormality,

692 Causes of systemic hypertension

Systemic hypertension due to aortic arch obstruction,	to 1	10.14.04	405.9		I15.8	10.14.04	Systemic hypertension due to aortic arch obstruction,	
Systemic hypertension due to kidney disease,	to 1	10.14.28	403.9	593.9	I15.1	N28.9	10.14.00	Secondary systemic hypertension,
Systemic hypertension due to chronic glomerulonephritis,	to 1	10.14.03	403.9	582.9	I15.1	N03.9	10.14.00	Secondary systemic hypertension,
Systemic hypertension due to renal tumour,	to 1	10.14.11	403.9	239.5	I15.1	D41.0	10.14.00	Secondary systemic hypertension,
Systemic hypertension due to renovascular abnormality,	to 1	10.14.12	403.9	747.6	I15.0	Q27.2	10.14.00	Secondary systemic hypertension,
Systemic hypertension due to obstructive uropathy,	to 1	10.14.13	403.9	599.6	I15.1	N13.9	10.14.00	Secondary systemic hypertension,
Systemic hypertension due to polycystic kidney disease,	to 1	10.14.14	403.9	753.1	I15.1	Q61.3	10.14.00	Secondary systemic hypertension,
Systemic hypertension due to reflux nephropathy,	to 1	10.14.15	403.9	593.7	I15.1	N13.7	10.14.00	Secondary systemic hypertension,
Systemic hypertension due to diabetic nephrosclerosis,	to 1	10.14.16	403.9		I15.2	I12.9	10.14.00	Secondary systemic hypertension,
Systemic hypertension due to pheochromocytoma,	to 1	10.14.05	405.9	227	I15.2	D44.1	10.14.00	Secondary systemic hypertension,
Systemic hypertension due to nephroblastoma,	to 1	10.14.17	403.9	189.0	I15.1	C64	10.14.00	Secondary systemic hypertension,
Systemic hypertension due to Cushing's syndrome,	to 1	10.14.18	405.9	255.0	I15.2	E24	10.14.00	Secondary systemic hypertension,
Systemic hypertension due to primary aldosteronism (Conn's),	to 1	10.14.19	405.9	255.1	I15.2	E26.0	10.14.00	Secondary systemic hypertension,
Systemic hypertension due to congenital adrenal hyperplasia,	to 1	10.14.20	405.9	255.2	I15.2	E25.0	10.14.00	Secondary systemic hypertension,
Systemic hypertension due to pregnancy,	to 1	10.14.22	642.9		O13	10.14.00	Secondary systemic hypertension,	
Systemic hypertension due to drug therapy,	to 1	10.14.23	405.9	995.2	I15.8	T88.7	10.14.00	Secondary systemic hypertension,
Systemic hypertension due to anti-rejection drug therapy,	to 1	10.14.25	405.9	995.2	I15.8	T88.7	10.14.00	Secondary systemic hypertension,
Systemic hypertension due to twin-to-twin transfusion syndrome,	to 1	10.14.26	405.9	762.3	I15.8	P02.3	10.14.00	Secondary systemic hypertension,

693 Aortic dilation, aneurysms, rupture and dissection

Aorta dilation,	to 699	10.14.39	441.6		I71.9	10.14.70	Abnormality of aorta: acquired,	
Ascending aorta dilation: acquired,	to 976	10.14.40	441.6		I71.9	10.14.40	Ascending aorta dilation: acquired,	
Ascending aorta dilation associated with bicuspid aortic valve,	to 976	10.14.38	441.6		I71.9	10.14.40	Ascending aorta dilation: acquired,	
Aortic root dilation,	to 976	09.16.13	747.2		Q25.4	09.16.13	Aortic root dilation,	
Aortic sinusulobular junction dilation,	to 976	09.16.14	747.2		Q25.4	09.16.13	Aortic root dilation,	
Aortic sinus of Valsalva dilation,	to 387	09.18.20	747.2		Q25.4	09.16.13	Aortic root dilation,	
Post-stenotic aortic dilation,	to 976	10.14.47	441.6		I71.9	10.14.40	Ascending aorta dilation: acquired,	
Ascending aorta dilation associated with Marfan syndrome,	to 976	09.16.05	441.6	759.8	Q87.4†	I79.0*	09.16.05	Ascending aorta dilation associated with Marfan syndrome,
Ascending aortopathy associated with conotruncal malformations,	to 976	10.14.95	441.6		I71.9	10.14.95	Ascending aortopathy associated with conotruncal malformations,	
Aortic aneurysm,	to 976	10.14.50	441.2		I71.2	10.14.50	Aortic aneurysm,	
Aetiologies of aortic aneurysms	to 697	not relevant						
Annuloaortic ectasia (Erdheim),	to 976	10.14.41	441.6		I70.0	10.14.70	Abnormality of aorta: acquired,	
Postprocedural true & false aortic aneurysms-dissection-rupture	to 2120	not relevant						
Aortic dissection	to 698	not relevant						
Aortic rupture,	to 699	10.14.75	441.1		I71.1	10.14.70	Abnormality of aorta: acquired,	
Aortic root aneurysm,	to 976	10.14.55	441.2		I71.2	10.14.42	Ascending aorta aneurysm,	
Ascending aorta aneurysm,	to 976	10.14.42	441.2		I71.2	10.14.42	Ascending aorta aneurysm,	
Transverse aortic arch aneurysm,	to 976	10.14.56	441.2		I71.2	10.14.50	Aortic aneurysm,	
Descending aorta aneurysm,	to 976	10.14.43	441.2		I71.2	10.14.43	Descending aorta aneurysm,	
Thoraco-abdominal aorta aneurysm,	to 976	10.14.57	441.2		I71.2	10.14.43	Descending aorta aneurysm,	
Abdominal aorta aneurysm,	to 976	10.14.44	441.4		I71.4	10.14.44	Abdominal aorta aneurysm,	
Rupture of thoracic aortic aneurysm,	to 1	10.14.45	441.1		I71.1	10.14.45	Rupture of thoracic aortic aneurysm,	
Rupture of abdominal aortic aneurysm,	to 1	10.14.46	441.3		I71.5	10.14.46	Rupture of abdominal aortic aneurysm,	

694 Acquired arterial duct (including PDA) abnormalities

Postprocedural arterial duct (PDA) complications & sequelae	to 2140	not relevant						
Infection/thrombosis/laceration/perforation-rupture of arterial duct	to 2150	not relevant						
Arterial duct (ductus arteriosus) abnormality: acquired,	to 1	10.14.80	447.8		I77.8	10.14.80	Arterial duct (ductus arteriosus) abnormality: acquired,	
Patent arterial duct (PDA),	to 968	10.14.81	447.8		I77.8	09.27.21	Patent arterial duct (PDA),	
Recurrent arterial duct patency (PDA),	to 615	10.06.18	447.6		I77.6	10.06.01	Infective endocarditis,	
Infective endarteritis of arterial duct,	to 627	10.06.28	447.2		I77.2	10.06.20	Heart abscess,	
Abscess at site of arterial duct,	to 976	15.39.03	442.8	E878.8	I72.8	Y83.8	15.39.01	Postprocedural arterial duct complication,
Residual pulmonary hypertension after relief of left to right shunt,	to 685	15.22.31	416.8	E878.8	I27.8	Y83.8	15.22.31	Residual pulmonary hypertension after relief of left to right shunt,

695 Acquired systemic-to-pulmonary arterial abnormalities

Postprocedural systemic-to-pulmonary collateral arterial complications	to 2160	not relevant					
Pulmonary hypertension due to unrelieved systemic-pulmonary collateral flow,	to 3300	10.13.23	416.9		I27.8	10.13.21	Pulmonary hypertension due to left to right shunt,
Systemic-to-pulmonary collateral artery(ies) (MAPCA): acquired,	to 490	10.13.74	447.9		I77.8	09.20.25	Systemic-to-pulmonary collateral artery(ies) (MAPCA(s)) stenosis(es),
Systemic-to-pulmonary collateral arterial (MAPCA) acquired distortion,	to 3300	10.13.71	447.9		I77.8	09.20.25	Systemic-to-pulmonary collateral artery(ies) (MAPCA(s)) stenosis(es),
Systemic-to-pulmonary collateral arterial (MAPCA) acquired stenosis,	to 3300	10.13.72	447.1		I77.1	09.20.25	Systemic-to-pulmonary collateral artery(ies) (MAPCA(s)) stenosis(es),
Bronchopulmonary arterial enlargement: acquired,	to 3300	10.13.73	447.1		I77.1	09.20.20	Distal systemic arterial abnormality,
Systemic-to-pulmonary collateral arterial (MAPCA) acquired abnormality,	to 3300	10.13.79	447.9		I77.8	09.08.01	Major systemic-to-pulmonary collateral artery(ies) (MAPCA(s)),

696	Acquired abnormalities at aortic coarctation site								
	Postprocedural aortic coarctation & descending aorta complications & sequelae	to 2130	not relevant						
	Recoarctation of aorta,	to 699	10.14.72	447.1		077.1		10.14.72	Recoarctation of aorta,
	Postprocedural distortion of aorta at coarctation site,	to 1	15.37.09	447.8	E878.8	077.8	Y83.8	15.37.01	Postprocedural descending aorta complication,
	Infective endarteritis at site of aortic coarctation,	to 615	10.06.47	447.6		077.6		10.06.01	Infective endocarditis,
	Abscess at site of aortic coarctation,	to 627	10.06.36	447.2		077.2		10.06.20	Heart abscess,
	Recoarctation of aorta due to stent induced endoproliferation,	to 699	10.14.85	447.1		077.1		10.14.72	Recoarctation of aorta,
	Abnormality at aortic coarctation site: acquired,	to 1	10.14.78	447.9		077.8		10.14.70	Abnormality of aorta: acquired,
	Systemic-to-systemic collateral artery(ies) related to aortic obstruction,	to 699	10.14.86	447.9		077.8		09.20.20	Distal systemic arterial abnormality,
697	Aetiologies of aortic aneurysms								
	Aortic aneurysm due to arteriosclerosis,	to 1	10.17.51	441.6		071.9		10.14.50	Aortic aneurysm,
	Aortic aneurysm due to connective tissue disease,	to 550	10.17.52	441.2	710.9	071.2	M35.9	10.14.50	Aortic aneurysm,
	Aortic aneurysm due to autoimmune disease,	to 591	10.17.53	441.2	279.4	071.2	M35.9	10.14.50	Aortic aneurysm,
	Aortic aneurysm due to arteritic process,	to 591	10.17.54	441.2	447.6	071.2	077.6	10.14.50	Aortic aneurysm,
	Aortic aneurysm due to infectious disease,	to 1	10.17.55	441.2	421	071.2	072.9	10.14.50	Aortic aneurysm,
	Aortic aneurysm due to secondary infectious disease,	to 1	10.17.64	441.2	421	071.2	072.9	10.14.50	Aortic aneurysm,
	Aortic aneurysm: primary mycotic,	to 1	10.17.56	441.2	421	071.2	072.9	10.14.50	Aortic aneurysm,
	Aortic aneurysm: tuberculous mycotic,	to 1	10.17.57	441.2	11.9	071.2	A16.9	10.14.50	Aortic aneurysm,
	Aortic aneurysm: syphilitic (luetic),	to 1	10.17.58	441.7*	093.0†	079.0*	A52.0†	10.14.50	Aortic aneurysm,
	Aortic aneurysm due to pancreatitis,	to 1	10.17.59	441.2	577	071.2	K85	10.14.50	Aortic aneurysm,
	Aortic aneurysm due to trauma,	to 1	10.17.60	441.2	901	071.2	S25.0	10.14.50	Aortic aneurysm,
	Aortic aneurysm due to trauma - blunt,	to 1	10.17.61	441.2	901	071.2	S25.0	10.14.50	Aortic aneurysm,
	Aortic aneurysm due to trauma - penetrating,	to 1	10.17.62	441.2	901	071.2	S25.0	10.14.50	Aortic aneurysm,
	Aortic aneurysm due to congenital heart disease,	to 1	10.17.63	441.2	746.9	071.2	Q24.9	10.14.50	Aortic aneurysm,
	Aortic aneurysm due to cystic medial necrosis,	to 1	10.17.65	441.2	441.6	071.2	070.0	10.14.50	Aortic aneurysm,
	Aortic aneurysm due to systemic hypertension,	to 1	10.17.66	441.2	401.9	071.2	I10	10.14.50	Aortic aneurysm,
	Postprocedural aortic aneurysm,	to 976	15.37.80	441.2	E878.8	071.2	Y83.8	10.14.50	Aortic aneurysm,
	Secondary aortic aneurysm,	to 1	10.17.69	441.2		071.2		10.14.50	Aortic aneurysm,
698	Aortic dissection,								
	Aortic dissection,	to 977	10.14.51	441		071.0		10.14.51	Aortic dissection,
	Aortic root dissection,	to 977	10.14.58	441		071.0		10.14.51	Aortic dissection,
	Ascending aorta dissection,	to 977	10.14.90	441		071.0		10.14.51	Aortic dissection,
	Transverse aortic arch dissection,	to 977	10.14.91	441		071.0		10.14.51	Aortic dissection,
	Descending aorta dissection,	to 977	10.14.92	441		071.0		10.14.51	Aortic dissection,
	Thoraco-abdominal aorta dissection,	to 977	10.14.93	441		071.0		10.14.51	Aortic dissection,
	Abdominal aorta dissection,	to 977	10.14.94	441		071.0		10.14.51	Aortic dissection,
	Ascending aorta dissection & propagation beyond arch (DeBakey type I),	to 977	10.14.52	441		071.0		10.14.52	Ascending aorta dissection & propagation beyond arch (DeBakey type I),
	Ascending aorta dissection not beyond arch (DeBakey type II-Stanford type A),	to 977	10.14.53	441		071.0		10.14.53	Ascending aorta dissection not beyond arch (DeBakey type II-Stanford type A),
	Descending aorta dissection & distal propagation (DeBakey type III-Stanford type B),	to 977	10.14.54	441		071.0		10.14.54	Descending aorta dissection & distal propagation (DeBakey type III-Stanford type B),
	Aorta dissection related abnormality,	to 976	10.14.59	459.9		89		01.01.60	Vascular abnormality,
699 @	Aortic site qualifiers								
	- ascending aorta,	to 1	Q1.82.01					not relevant	
	- aortic root,	to 1	Q1.82.10					not relevant	
	- aortic arch,	to 1	Q1.88.03					not relevant	
	- proximal aortic arch,	to 1	Q1.82.02					not relevant	
	- between innominate & common carotid arteries,	to 1	Q1.82.03					not relevant	
	- between common carotid & subclavian arteries,	to 1	Q1.82.04					not relevant	
	- aortic arch isthmus,	to 1	Q1.88.52					not relevant	
	- juxtaductal aortic arch,	to 1	Q1.82.12					not relevant	
	- distal aortic arch,	to 1	Q1.82.05					not relevant	
	- descending aorta,	to 1	Q1.88.04					not relevant	
	- descending thoracic aorta,	to 1	Q1.82.06					not relevant	
	- thoracoabdominal aorta,	to 1	Q1.82.11					not relevant	
	- abdominal aorta,	to 1	Q1.82.07					not relevant	
	- abdominal aorta: supraceliac,	to 1	Q1.82.08					not relevant	
	- abdominal aorta: infrarenal,	to 1	Q1.82.09					not relevant	
	no entry	to 1	not relevant						
700	Acquired systemic and peripheral arterial disease								
	Systemic arterial abnormality: acquired,	to 3230	10.14.79	447.9		077.8		09.20.20	Distal systemic arterial abnormality,
	Systemic-to-systemic collateral artery(ies),	to 3230	10.14.87	447.9		077.8		09.20.20	Distal systemic arterial abnormality,
	Systemic-to-systemic collateral artery(ies) not apparent,	to 3230	10.14.88	447.9		077.8		09.20.20	Distal systemic arterial abnormality,
	Acquired abnormalities of aortic arch branches	to 701	not relevant						
	Systemic arteritis,	to 1	10.14.60	447.6		077.6		10.14.60	Systemic arteritis,
	Takayasu's arteritis,	to 1	10.14.61	446.7		M31.4		10.14.60	Systemic arteritis,
	Giant cell arteritis,	to 1	10.14.62	446.5		M31.6		10.14.60	Systemic arteritis,
	Arteritis due to collagen vascular disease,	to 1	10.14.63	447.6		M30.8		10.14.60	Systemic arteritis,
	Systemic arterial thrombosis,	to 1	09.20.21	444.9		074.9		09.20.20	Distal systemic arterial abnormality,
	Spontaneous recanalisation of systemic artery,	to 3230	10.77.30					no equivalent	
	Aneurysm(s) of distal systemic artery(ies): acquired,	to 1	09.20.34	747.6		C27.8		09.20.20	Distal systemic arterial abnormality,
	Arteriosclerosis,	to 3230	09.20.31	440.9		070.9		09.20.20	Distal systemic arterial abnormality,
	Systemic arteriosclerosis,	to 3230	09.20.22	440.9		070.9		09.20.20	Distal systemic arterial abnormality,
	Atherosclerosis,	to 3230	09.20.29	440.9		070.9		09.20.20	Distal systemic arterial abnormality,
	Systemic atherosclerosis,	to 3230	09.20.32	440.9		070.9		09.20.20	Distal systemic arterial abnormality,
	Cystic medial necrosis (mucopolysaccharide accumulation),	to 1	10.14.69	441.6		070.0		10.14.60	Systemic arteritis,
	Peripheral vascular disease,	to 3230	10.77.10	443.0		073.9		09.20.20	Distal systemic arterial abnormality,
	Peripheral vascular disease: atherosclerotic,	to 3230	10.77.11	440.2		070.2		09.20.20	Distal systemic arterial abnormality,
	Collateral thromboangiitis (Buerger),	to 3230	10.77.12	443.1		073.1		09.20.20	Distal systemic arterial abnormality,
	Raynaud phenomenon (syndrome),	to 3230	10.77.13	443.0		073.0		09.20.20	Distal systemic arterial abnormality,
	Raynaud phenomenon (syndrome): primary (Raynaud Disease),	to 3230	10.77.14	443.0		073.0		09.20.20	Distal systemic arterial abnormality,
	Raynaud phenomenon (syndrome): secondary,	to 3230	10.77.15	443.0		073.0		09.20.20	Distal systemic arterial abnormality,
	Raynaud phenomenon (syndrome): secondary to obstructive arterial disease,	to 3230	10.77.16	443.0		073.0		09.20.20	Distal systemic arterial abnormality,
	Raynaud phenomenon (syndrome): secondary to connective tissue disease,	to 591	10.77.17	443.0	710.9	073.0	M35.9	09.20.20	Distal systemic arterial abnormality,
	Raynaud phenomenon (syndrome): secondary to carpal tunnel syndrome,	to 3230	10.77.18	443.0	354.0	073.0	G56.0	09.20.20	Distal systemic arterial abnormality,
	Raynaud phenomenon (syndrome): drug induced,	to 985	10.77.19	443.0	995.2	073.0	T88.7	09.20.20	Distal systemic arterial abnormality,
	Raynaud phenomenon (syndrome): occupation induced,	to 989	10.77.20	443.0		073.0		09.20.20	Distal systemic arterial abnormality,
701	Acquired abnormalities of aortic arch branches								
	Acquired abnormality of aortic arch branch,	to 960	10.77.40	447.8		077.8		09.20.20	Distal systemic arterial abnormality,
	Carotid arterial stenosis: acquired,	to 958	10.77.41	433.1		85.2		09.20.20	Distal systemic arterial abnormality,
	Left carotid arterial stenosis: acquired,	to 958	10.77.42	433.1		85.2		09.20.20	Distal systemic arterial abnormality,
	Right carotid arterial stenosis: acquired,	to 958	10.77.43	433.1		85.2		09.20.20	Distal systemic arterial abnormality,
	Carotid artery aneurysm: acquired,	to 976	10.77.44	442.8		072.0		09.20.20	Distal systemic arterial abnormality,
	Left carotid artery aneurysm: acquired,	to 976	10.77.45	442.8		072.0		09.20.20	Distal systemic arterial abnormality,
	Right carotid artery aneurysm: acquired,	to 976	10.77.46	442.8		072.0		09.20.20	Distal systemic arterial abnormality,
	Innominate arterial stenosis: acquired,	to 958	10.77.47	433.8		85.8		09.20.20	Distal systemic arterial abnormality,
	Innominate artery aneurysm: acquired,	to 976	10.77.48	442.8		072.1		09.20.20	Distal systemic arterial abnormality,
	Subclavian arterial stenosis: acquired,	to 958	10.77.49	447.1		077.1		09.20.20	Distal systemic arterial abnormality,
	Left subclavian arterial stenosis: acquired,	to 958	10.77.50	447.1		077.1		09.20.20	Distal systemic arterial abnormality,
	Right subclavian arterial stenosis: acquired,	to 976	10.77.52	442.0		072.1		09.20.20	Distal systemic arterial abnormality,
	Left subclavian artery aneurysm: acquired,	to 976	10.77.53	442.0		072.1		09.20.20	Distal systemic arterial abnormality,
	Right subclavian artery aneurysm: acquired,	to 976	10.77.54	442.0		072.1		09.20.20	Distal systemic arterial abnormality,
	End of branch								
705	Acquired pericardial abnormalities								
	Pericardial abnormality: acquired,	to 1	10.08.29	423.9		031.9		10.08.29	Pericardial abnormality: acquired,
	Pericarditis,	to 706	not relevant						
	Pericardial effusion	to 707	not relevant						
	Postprocedural pericardial complications	to 2010	not relevant						
	Calcification of pericardium,	to 1	10.08.22	423.8		031.1		10.08.29	Pericardial abnormality: acquired,
	Pericardial mass,	to 1	10.08.51	423.8		031.8		10.08.29	Pericardial abnormality: acquired,
	Pericardial tumour: benign,	to 721	10.08.52	423.8	M8000/0	031.8	D14.2	10.08.29	Pericardial abnormality: acquired,
	Pericardial tumour: malignant,	to 722	10.08.53	423.8	M8000/3	031.8	C33	10.08.29	Pericardial abnormality: acquired,
	Pneumopericardium,	to 1	10.08.54	423.8		031.8		10.08.29	Pericardial abnormality: acquired,
	Pneumopericardium: idiopathic,	to 1	10.08.55	423.8		031.8		10.08.29	Pericardial abnormality: acquired,
	Pneumopericardium: infectious,	to 1	10.08.56	423.8		031.8		10.08.29	Pericardial abnormality: acquired,
	Pneumopericardium: traumatic,	to 1	10.08.57	423.8	862.2	S26		10.08.29	Pericardial abnormality: acquired,
	Pericardial defect or deficiency: acquired,	to 5	10.08.80	423.8		031.8		10.08.29	Pericardial abnormality: acquired,
	Pericardial thickening,	to 5	10.08.81	423.8		031.8		10.08.29	Pericardial abnormality: acquired,
706	Pericarditis								
	Infectious pericarditis	to 625	not relevant						
	Pericarditis,	to 1	10.08.00	420.9		030.9		10.08.00	Pericarditis,
	Pericarditis: acute,	to 1	10.08.70	420.9		030.9		10.08.00	Pericarditis

Neoplastic pericarditis,	to 720	10.08.23	423.8	M8000/1	B1.8	D38.1	10.08.00	Pericarditis,
Uremic pericarditis,	to 1	10.08.06	423.8		N18.8†	I32.8*	10.08.00	Pericarditis,
Pericarditis due to systemic lupus erythematosus (SLE),	to 1	10.08.07	423.8		M32.1†	I32.8*	10.08.00	Pericarditis,
Pericarditis due to cholesterol deposits (golden pericarditis),	to 1	10.08.58	423.8		B1.3		10.08.00	Pericarditis,
Traumatic pericarditis,	to 1	10.08.08	420.9	862.2	S26		10.08.00	Pericarditis,
Pericarditis: adhesive,	to 1	10.08.30	423.1		B1.0		10.08.00	Pericarditis,
Constrictive pericarditis,	to 1	10.08.09	423.2		B1.1		10.08.09	Constrictive pericarditis,
Constrictive pericarditis: idiopathic,	to 1	10.08.26	423.2		B1.1		10.08.09	Constrictive pericarditis,
Constrictive pericarditis: radiation induced,	to 1	10.08.27	423.2		B1.1		10.08.09	Constrictive pericarditis,
Constrictive pericarditis: postcardiotomy,	to 1	10.08.28	423.2		B1.1		10.08.09	Constrictive pericarditis,
Constrictive pericarditis: post-effusion,	to 1	10.08.66	423.2		B1.1		10.08.09	Constrictive pericarditis,
Constrictive pericarditis: infectious,	to 1	10.08.72	423.2		B1.1		10.08.09	Constrictive pericarditis,
Drug related pericarditis,	to 1	10.08.21	423.8		B0.8		10.08.00	Pericarditis,
Pericarditis due to myocarditis,	to 1	10.08.24	423.8		B2.8		10.08.00	Pericarditis,
Pericarditis after myocardial infarct (Post MI syndrome/ Dressler),	to 1	10.08.25	411		B4.1		10.08.00	Pericarditis,
Pericarditis associated with Familial Mediterranean Fever,	to 1	10.08.59	420.9		B2.8	E85.0	10.08.00	Pericarditis,

707 Pericardial effusion

Postprocedural pericardial complications	to 2010	not relevant						
Pericardial effusion,	to 708	10.08.31	423.9		B1.3		10.08.31	Pericardial effusion,
Pericardial effusion requiring drainage,	to 708	15.83.00	423.9		B1.3		15.83.00	Pericardial effusion requiring drainage,
Pericardial effusion: idiopathic,	to 708	10.08.60	423.9		B1.3		10.08.31	Pericardial effusion,
Pericardial effusion: secondary,	to 708	10.08.10	423.9		B1.3		10.08.31	Pericardial effusion,
Postpericardiotomy syndrome,	to 708	10.08.11	429.4		B7.0		10.08.11	Postpericardiotomy syndrome,
Haemopericardium,	to 708	10.08.34	423.0		B1.2		10.08.31	Pericardial effusion,
Pericardial effusion due to trauma,	to 708	10.08.36	423.9	862.2	B1.3	S27.5	10.08.31	Pericardial effusion,
Traumatic haemopericardium: due to mediastinal bleeding,	to 708	10.08.12	423.0	862.2	B1.3	S27.5	10.08.31	Pericardial effusion,
Traumatic haemopericardium: iatrogenic,	to 708	10.08.37	423.9		B1.3		10.08.31	Pericardial effusion,
Haemopericardium following myocardial infarction,	to 708	10.08.32	423.0		B2.0		10.08.31	Pericardial effusion,
Chylopericardium,	to 708	10.08.15	457.8		B1.3		10.08.15	Chylopericardium,
Chylopericardium: idiopathic,	to 708	10.08.38	457.8		B1.3		10.08.31	Pericardial effusion,
Chylopericardium: neoplastic,	to 708	10.08.39	457.8	M8000/1	B1.3	M8000/1	10.08.31	Pericardial effusion,
Chylopericardium: traumatic,	to 708	10.08.50	457.8	862.2	B1.3	S27.5	10.08.31	Pericardial effusion,
Pericardial effusion due to malignancy,	to 720	10.08.33	423.9	M8000/1	B1.3		10.08.31	Pericardial effusion,
Pericardial effusion due to infection,	to 708	10.08.35	423.9		B1.3		10.08.31	Pericardial effusion,
Pericardial effusion: purulent,	to 708	10.08.61	423.9		B1.3		10.08.31	Pericardial effusion,
Pericardial effusion: malignant,	to 708	10.08.62	423.8	M8000/1	B1.3	M8000/1	10.08.31	Pericardial effusion,
Pericardial effusion: malignant with cells in effusion,	to 708	10.08.73	423.8	M8000/1	B1.3	M8000/1	10.08.31	Pericardial effusion,
Pericardial effusion: malignant without cells in effusion,	to 708	10.08.74	423.8	M8000/1	B1.3	M8000/1	10.08.31	Pericardial effusion,
Pericardial effusion: benign neoplastic,	to 708	10.08.75	423.8	M8000/0	B1.3	M8000/0	10.08.31	Pericardial effusion,
Pericardial effusion: uraemic,	to 708	10.08.63	423.8		N18.8†	I32.8*	10.08.31	Pericardial effusion,
Pericardial effusion: drug induced,	to 708	10.08.64	423.8		B0.8		10.08.31	Pericardial effusion,
Pericardial effusion due to foreign body,	to 708	10.08.69	423.8		B0.8		10.08.31	Pericardial effusion,
Cardiac tamponade,	to 708	10.08.13	423.9		B1.9		10.08.13	Cardiac tamponade,

708 @ Pericardial effusion and tamponade characteristics - qualifiers

- tiny,	to 709	Q1.27.70					not relevant	
- small,	to 709	Q1.27.61					not relevant	
- moderate,	to 709	Q1.40.03					not relevant	
- large,	to 709	Q1.27.63					not relevant	
- very large,	to 709	Q1.27.73					not relevant	
- regional,	to 709	Q1.83.51					not relevant	
- circumferential,	to 709	Q5.81.05					not relevant	
- localized,	to 709	Q1.83.52					not relevant	
- causing right atrial diastolic collapse,	to 709	Q1.83.53					not relevant	
- causing right ventricular diastolic collapse,	to 709	Q1.83.54					not relevant	
- causing left atrial diastolic collapse,	to 709	Q1.83.55					not relevant	
- causing left ventricular diastolic collapse,	to 709	Q1.83.56					not relevant	
- with no haemodynamic effect,	to 709	Q1.90.11					not relevant	
- residual,	to 709	Q1.90.54					not relevant	
- residual: intentional,	to 709	Q1.91.50					not relevant	
- residual: inadvertent,	to 709	Q1.91.51					not relevant	
- recurrent,	to 709	Q1.90.72					not relevant	

709 @ Pericardial effusion and tamponade treatment and outcome qualifiers

- requiring drainage,	to 1	Q1.83.01					not relevant	
- requiring drainage followed by reoperation,	to 1	Q1.83.06					not relevant	
- requiring drainage during same admission,	to 1	Q1.83.07					not relevant	
- requiring drainage followed by reoperation during same admission,	to 1	Q1.83.12					not relevant	
- requiring drainage: pericardiocentesis,	to 1	Q1.83.02					not relevant	
- requiring drainage: pericardiocentesis followed by reoperation,	to 1	Q1.83.08					not relevant	
- requiring drainage: pericardiocentesis followed by reoperation during same admission,	to 1	Q1.83.09					not relevant	
- requiring drainage: pericardial window,	to 1	Q1.83.03					not relevant	
- requiring drainage: tube pericardiostomy,	to 1	Q1.83.04					not relevant	
- requiring reoperation,	to 1	Q1.83.10					not relevant	
- requiring reoperation during same admission,	to 1	Q1.83.11					not relevant	
- resolved with medical management (without invasive therapy),	to 1	Q1.83.05					not relevant	
- resolved,	to 1	Q1.90.55					not relevant	
- resolved spontaneously,	to 1	Q1.90.91					not relevant	
- characteristics unknown or unspecified,	to 1	Q1.90.83					not relevant	
Causes of infection	to 627	not relevant						
Causes of malignancy	to 720	not relevant						

End of branch

710 Traumatic injuries of heart, great vessels and lungs

Traumatic injury of heart,	to 3205	10.90.01	861		S26		10.90.01	Traumatic injury of heart,
Traumatic injury of heart: blunt,	to 3205	10.90.31	861		S26		10.90.01	Traumatic injury of heart,
Traumatic injury of heart: penetrative,	to 3205	10.90.32	861		S26		10.90.01	Traumatic injury of heart,
Traumatic injury of heart: with open wound into thorax,	to 3205	10.90.33	861		S26		10.90.01	Traumatic injury of heart,
Traumatic contusion of heart,	to 3205	10.90.02	861		S26		10.90.01	Traumatic injury of heart,
Traumatic laceration of heart,	to 3205	10.90.03	861		S26		10.90.01	Traumatic injury of heart,
Traumatic perforation of heart,	to 3205	10.90.04	861		S26		10.90.01	Traumatic injury of heart,
Traumatic rupture of heart,	to 3205	10.90.05	861		S26		10.90.01	Traumatic injury of heart,
Traumatic injury of aorta,	to 1	10.90.11	901		S25.0		10.90.01	Traumatic injury of heart,
Traumatic injury of pulmonary tree,	to 353	10.90.15	901.4		S25.4		10.90.01	Traumatic injury of heart,
Traumatic injury of superior caval vein (SVC),	to 1	10.90.20	901.2		S25.2		10.90.01	Traumatic injury of heart,
Traumatic injury of inferior caval vein (IVC),	to 1	10.90.21	901.2		S25.2		10.90.01	Traumatic injury of heart,
Traumatic injury of coronary artery,	to 467	10.90.34	901.2		S25.2		10.90.01	Traumatic injury of heart,
Traumatic injury of heart related abnormality,	to 1	10.90.29	746.8		Q24.8		01.01.39	Cardiac abnormality,
Traumatic injuries tracheobronchial tree and lungs	to 715	not relevant						

715 Traumatic injuries tracheobronchial tree and lungs

Traumatic injury of tracheobronchial tree or lungs,	to 717	10.90.24	862.2		S27.8		10.90.24	Traumatic injury of tracheobronchial tree or lungs,
Traumatic injury of lung,	to 717	10.90.25	861.2		S27.3		10.90.24	Traumatic injury of tracheobronchial tree or lungs,
Traumatic injury of lung: blunt,	to 717	10.90.26	861.2		S27.3		10.90.24	Traumatic injury of tracheobronchial tree or lungs,
Traumatic injury of lung: penetrative,	to 717	10.90.27	861.2		S27.3		10.90.24	Traumatic injury of tracheobronchial tree or lungs,
Bronchial trauma,	to 717	16.08.05	862.2		S27.4		10.90.24	Traumatic injury of tracheobronchial tree or lungs,
Bronchial burn,	to 717	16.08.06	947.1		T27.2		10.90.24	Traumatic injury of tracheobronchial tree or lungs,
Tracheal trauma,	to 717	16.08.07	862.2		S27.5		10.90.24	Traumatic injury of tracheobronchial tree or lungs,
Tracheal burn,	to 717	16.08.08	947.1		T27.0		10.90.24	Traumatic injury of tracheobronchial tree or lungs,
Bronchial tear,	to 717	16.08.02	862.2		S27.4		10.90.24	Traumatic injury of tracheobronchial tree or lungs,
Bronchial tear: partial,	to 717	16.08.03	862.2		S27.4		10.90.24	Traumatic injury of tracheobronchial tree or lungs,
Bronchial tear: complete,	to 717	16.08.04	862.2		S27.4		10.90.24	Traumatic injury of tracheobronchial tree or lungs,
Lung burn,	to 717	16.08.09	947.1		T27.1		10.90.24	Traumatic injury of tracheobronchial tree or lungs,

717 @ Traumatic injuries - qualifiers

- blunt trauma,	to 3300	Q1.62.01					not relevant	
- penetrative trauma,	to 3300	Q1.62.02					not relevant	
- tear,	to 3300	Q1.62.03					not relevant	
- avulsion,	to 600	Q1.06.62		879.8		T14.7	not relevant	
- dissection,	to 600	Q1.06.38		459.9		B9	not relevant	
- laceration,	to 1	Q1.06.36		998.2		T81.2	not relevant	
- blunt rupture,	to 3300	Q1.62.04					not relevant	
- penetrative rupture,	to 3300	Q1.62.05					not relevant	
- iatrogenic rupture,	to 3300	Q1.62.06					not relevant	
- chemical burn,	to 3300	Q1.62.07					not relevant	
- inhalation burn,	to 3300	Q1.62.08					not relevant	
- smoke inhalation burn,	to 3300	Q1.62.09					not relevant	
- characteristics unknown or unspecified,	to 3300	Q1.90.83					not relevant	
no entry	to 3300	not relevant						

End of branch

Heart tumours

Heart tumour,	to 724	10.03.01	239.8		D48.7	10.03.01	Heart tumour,
Heart tumour: primary,	to 724	10.03.00	239.8		D48.7	10.03.01	Heart tumour,
Heart tumour: hereditary,	to 724	10.03.43	239.8		D48.7	10.03.01	Heart tumour,
Heart tumour: non-hereditary,	to 724	10.03.50	239.8		D48.7	10.03.01	Heart tumour,
Heart tumour: secondary (metastatic or direct spread),	to 723	10.03.45	198.8		C79.8	10.03.01	Heart tumour,
Tumour to heart by direct spread,	to 723	10.03.46	198.8		C79.8	10.03.01	Heart tumour,
Tumour to heart by direct spread from thoracic tumour,	to 723	10.03.49	198.8		C79.8	10.03.01	Heart tumour,
Heart tumour secondary to infradiaphragmatic inferior caval vein (IVC) extension,	to 723	10.03.25	198.8		C79.8	10.03.01	Heart tumour,
Metastatic tumour to heart,	to 723	10.03.21	198.8		C79.8	10.03.01	Heart tumour,
Benign heart tumour	to 721	not relevant					
Malignant heart tumour	to 722	not relevant					
Heart tumour: uncertain behaviour,	to 724	10.03.47	198.8		C79.8	10.03.01	Heart tumour,
Single cardiac tumour,	to 724	10.03.48	239.8		D48.7	10.03.01	Heart tumour,
Multiple cardiac tumours,	to 724	10.03.27	239.8		D48.7	10.03.01	Heart tumour,
Tumour causing secondary cardiovascular disease	to 727	not relevant					
Fetal heart tumour: single,	to 724	10.03.40	239.8		D48.7	10.03.01	Heart tumour,
Fetal heart tumour: multiple,	to 724	10.03.41	239.8		D48.7	10.03.01	Heart tumour,
Cardiac teratoma,	to 724	10.03.44	239.8	M9080/1	D48.7	M9080/1	Heart tumour,
Heart tumour related abnormality,	to 724	10.03.22	746.8		Q24.8	01.01.39	Cardiac abnormality,

721 Benign heart tumour

Benign heart tumour - rhabdomyoma,	to 724	10.03.02	212.7	M8900/0	D15.1	M8900/0	10.03.01	Heart tumour,
Benign heart tumour - multiple rhabdomyoma,	to 724	10.03.28	212.7	M8900/0	D15.1	M8900/0	10.03.01	Heart tumour,
Benign heart tumour - fibroma,	to 724	10.03.03	212.7	M8810/0	D15.1	M8810/0	10.03.01	Heart tumour,
Benign heart tumour - teratoma,	to 724	10.03.04	212.7	M9080/0	D15.1	M9080/0	10.03.01	Heart tumour,
Benign heart tumour - myxoma,	to 724	10.03.05	212.7	M8840/0	D15.1	M8840/0	10.03.01	Heart tumour,
Benign heart tumour - myxoma: solitary,	to 724	10.03.35	212.7	M8840/0	D15.1	M8840/0	10.03.01	Heart tumour,
Benign heart tumour - myxoma: multiple,	to 724	10.03.36	212.7	M8840/0	D15.1	M8840/0	10.03.01	Heart tumour,
Benign heart tumour - myxoma: recurrent,	to 724	10.03.38	212.7	M8840/0	D15.1	M8840/0	10.03.01	Heart tumour,
Benign heart tumour - hereditary myxoma,	to 724	10.03.23	212.7	M8840/0	D15.1	M8840/0	10.03.01	Heart tumour,
Benign heart tumour - haemangioma,	to 724	10.03.06	212.7	M9120/0	D18.0	M9120/0	10.03.01	Heart tumour,
Benign heart tumour - mesothelioma of atrioventricular node (hamartoma, Purkinje cell),	to 724	10.03.07	212.7	M9050/0	D15.1	M9050/0	10.03.01	Heart tumour,
Benign heart tumour - lipoma,	to 724	10.03.08	212.7	M8850/0	D15.1	M8850/0	10.03.01	Heart tumour,
Benign heart tumour - papillary fibroelastoma,	to 724	10.03.29	212.7	M8820/0	D15.1	M8820/0	10.03.01	Heart tumour,
Benign heart tumour,	to 724	10.03.09	212.7		D15.1		10.03.01	Heart tumour,

722 Malignant heart tumour

Malignant heart tumour - sarcoma,	to 724	10.03.10	164.1	M8800/3	C38.0	M8800/3	10.03.01	Heart tumour,
Malignant heart tumour - rhabdomyosarcoma,	to 724	10.03.11	164.1	M8900/3	C38.0	M8900/3	10.03.01	Heart tumour,
Malignant heart tumour - fibrosarcoma,	to 724	10.03.12	164.1	M8810/3	C38.0	M8810/3	10.03.01	Heart tumour,
Malignant heart tumour - teratoma,	to 724	10.03.13	164.1	M9080/3	C38.0	M9080/3	10.03.01	Heart tumour,
Malignant heart tumour - angiosarcoma,	to 724	10.03.14	164.1	M8894/3	C38.0	M8894/3	10.03.01	Heart tumour,
Malignant heart tumour - lymphoma,	to 724	10.03.16	164.1	M9590/3	C38.0	M9590/3	10.03.01	Heart tumour,
Malignant heart tumour - osteosarcoma,	to 724	10.03.17	164.1	M9180/3	C38.0	M9180/3	10.03.01	Heart tumour,
Malignant heart tumour - phaeochromocytoma,	to 724	10.03.18	164.1	M8700/3	C38.0	M8700/3	10.03.01	Heart tumour,
Malignant heart tumour - leiomyosarcoma,	to 724	10.03.19	164.1	M8890/3	C38.0	M8890/3	10.03.01	Heart tumour,
Malignant heart tumour - liposarcoma,	to 724	10.03.31	164.1	M8850/3	C38.0	M8850/3	10.03.01	Heart tumour,
Malignant heart tumour - chondrosarcoma,	to 724	10.03.32	164.1	M9220/3	C38.0	M9220/3	10.03.01	Heart tumour,
Malignant heart tumour - synovial sarcoma,	to 724	10.03.23	164.1	M9040/3	C38.0	M9040/3	10.03.01	Heart tumour,
Malignant heart tumour - neurogenic sarcoma,	to 724	10.03.34	164.1	M9540/3	C38.0	M9540/3	10.03.01	Heart tumour,
Malignant heart tumour - mesothelioma,	to 724	10.03.39	164.1	M9050/3	C38.0	M9050/3	10.03.01	Heart tumour,
Malignant heart tumour - myxoma: metastatic,	to 724	10.03.37	212.7	M8840/0	D15.1	M8840/0	10.03.01	Heart tumour,
Malignant heart tumour,	to 724	10.03.15	161.1		C38.0		10.03.01	Heart tumour,
Malignant primary heart tumour with noncardiac metastatic spread,	to 724	10.03.42	161.1		C38.0		10.03.01	Heart tumour,

723 @ Tumours with cardiac secondary metastatic or direct spread - qualifiers

- renal cell carcinoma,	to 724	Q1.95.01		M8312/3		M8312/3	not relevant
- hepatic tumour,	to 724	Q1.95.13		239.0		D37.6	not relevant
- hepatocellular carcinoma,	to 724	Q1.95.02		M8170/3		M8170/3	not relevant
- adrenal tumour,	to 724	Q1.95.14		239.7		D44.1	not relevant
- adrenal cortical carcinoma,	to 724	Q1.95.03		M8370/3		M8370/3	not relevant
- leiomyomatosis,	to 724	Q1.95.04		M8890/1		M8890/1	not relevant
- leukaemia,	to 724	Q1.95.05		M9800/3		M9800/3	not relevant
- lymphoma,	to 724	Q1.95.06		M9590/3		M9590/3	not relevant
- bronchogenic carcinoma/ lung tumour,	to 724	Q1.95.07	162.9		C78.0		not relevant
- breast carcinoma,	to 724	Q1.95.08	174.9		C79.8		not relevant
- melanoma,	to 724	Q1.95.09		M8720/3		M8720/3	not relevant
- sarcoma,	to 724	Q1.95.10		M8800/3		M8800/3	not relevant
- mesothelioma,	to 724	Q1.95.11		M9053/3	C45.2		not relevant
- thymoma,	to 724	Q1.95.12		M8580/3		M8580/3	not relevant
- teratoma,	to 724	Q1.95.15		M9080/0		M9080/0	not relevant
- thyroid tumour,	to 724	Q1.95.16	193		C73		not relevant
- tumour (DESCRIBE),	to 724	Q1.95.19					not relevant
- unknown primary,	to 724	Q1.95.17					not relevant
- unspecified primary,	to 724	Q1.95.18					not relevant
no entry	to 724	not relevant					

724 @ Secondary effects of tumours on the heart - qualifiers

- without secondary cardiac effects,	to 3205	Q1.95.40					not relevant
- with obstruction to tricuspid inflow,	to 3205	Q1.95.41					not relevant
- with obstruction to tricuspid inflow: ball valve effect,	to 3205	Q1.95.42					not relevant
- with obstruction to mitral inflow,	to 3205	Q1.95.43					not relevant
- with obstruction to mitral inflow: ball valve effect,	to 3205	Q1.95.44					not relevant
- with obstruction to ventricular outflow tract,	to 3205	Q1.95.45					not relevant
- with obstruction to ventricular outflow tract: ball valve effect,	to 3205	Q1.95.46					not relevant
- with pulmonary obstruction,	to 3205	Q1.95.47					not relevant
- with obstruction to right ventricular outflow tract,	to 3205	Q1.95.48					not relevant
- with obstruction to right ventricular outflow tract: ball valve effect,	to 3205	Q1.95.49					not relevant
- with aortic obstruction,	to 3205	Q1.95.50					not relevant
- with obstruction to left ventricular outflow tract,	to 3205	Q1.95.51					not relevant
- with obstruction to left ventricular outflow tract: ball valve effect,	to 3205	Q1.95.52					not relevant
- with coronary artery obstruction,	to 3205	Q1.95.58					not relevant
- with coronary artery ostium obstruction,	to 3205	Q1.95.59					not relevant
- causing arrhythmia,	to 3205	Q1.95.53					not relevant
- causing pericardial effusion,	to 3205	Q1.95.54					not relevant
- causing right ventricular dysfunction,	to 3205	Q1.95.55					not relevant
- causing left ventricular dysfunction,	to 3205	Q1.95.56					not relevant
- without evidence of tuberosclerosis,	to 3205	Q1.95.57					not relevant
no entry	to 3205	not relevant					

727 Tumour causing secondary cardiovascular disease

Tumour causing secondary cardiovascular disease,	to 500	10.23.28	239.9		D48.9		14.03.00	Noncardiac abnormality associated with heart disease,
Carcinoid syndrome,	to 1	10.03.30	259.2	M8240/3	E34.0	M8240/3	14.03.00	Noncardiac abnormality associated with heart disease,
Coexistent carcinoid syndrome causing secondary cardiovascular disease,	to 1	10.23.30	259.2	M8240/3	E34.0	M8240/3	14.03.00	Noncardiac abnormality associated with heart disease,
Coexistent neuroblastoma,	to 1	10.23.26	194.1	M9500/3	C74.9	M9500/3	14.03.00	Noncardiac abnormality associated with heart disease,
Coexistent neuroblastoma causing secondary cardiovascular disease,	to 1	10.23.29	194.1	M9500/3	C74.9	M9500/3	14.03.00	Noncardiac abnormality associated with heart disease,
Coexistent phaeochromocytoma causing secondary cardiovascular disease,	to 1	10.23.27	227	M8700/0	D44.1	M8700/0	14.03.00	Noncardiac abnormality associated with heart disease,
Systemic hypertension due to phaeochromocytoma,	to 1	10.14.05	405.9	227	I5.2	D44.1	10.14.00	Secondary systemic hypertension,
Tumour embolus to systemic vascular system,	to 3230	10.23.31	447.9		I77.8		09.20.20	Distal systemic arterial abnormality,
Tumour embolus to pulmonary vascular system,	to 94	10.23.32	459.2		I28.8		10.24.00	Pulmonary venous abnormality: acquired,
Tumour embolus to coronary artery,	to 467	10.23.33	414.8		I25.1		10.09.10	Acquired coronary arterial disease,

End of branch

740 Signs, Symptoms and Investigations of Heart Disease

Global functional status	to 742	not relevant					
Murmurs and heart sounds	to 745	not relevant					
Syncope and hypotensive disorders	to 750	not relevant					
Chest pain and Angina	to 755	not relevant					
Other symptoms & signs of heart or thoracic disease	to 760	not relevant					
Heart failure	to 757	not relevant					
Systemic hypertension	to 651	not relevant					
Ischaemic heart disease	to 672	not relevant					
Noncardiac symptoms	to 763	not relevant					
Diagnostic investigations	to 765	not relevant					
To Preprocedural Risk Factors and Quoted Procedural Risks	to 930	not relevant					
Non-specific and postprocedural status qualifiers	to 953	not relevant					

742 Global functional status

Uncompromised functional status: New York Heart Association (NYHA) I	to 1	10.20.21					not relevant
Slightly compromised functional status: New York Heart Association (NYHA) II	to 1	10.20.22					not relevant
Moderately compromised functional status: New York Heart Association (NYHA) III	to 1	10.20.23					not relevant

Severely compromised functional status: New York Heart Association (NYHA) IV,	to 1	10.20.24			not relevant
Impaired functional status,	to 1	10.20.29			not relevant
Functional status unknown,	to 1	10.20.28			not relevant
no entry	to 1	not relevant			

End of branch

745 Murmurs and heart sounds

Murmur,	to 1	10.12.00	785.2	R01.1	10.17.00	Symptom-sign of heart disease,
Innocent functional murmur	to 746	not relevant				
Pathological murmur,	to 1	10.12.11	785.2	R01.1	10.17.00	Symptom-sign of heart disease,
Systolic murmur	to 747	not relevant				
Diastolic murmur,	to 748	not relevant				
Continuous murmur,	to 1	10.12.07	785.2	R01.1	10.17.00	Symptom-sign of heart disease,
Normal S1,	to 1	10.12.80				not relevant
Normal S2,	to 1	10.12.81				not relevant
Normal splitting of S2,	to 1	10.12.82				not relevant
Fixed splitting of S2,	to 1	10.12.83	785.3	R01.2	10.17.00	Symptom-sign of heart disease,
Reversed splitting of S2	to 1	10.12.84	785.3	R01.2	10.17.00	Symptom-sign of heart disease,
Single S2,	to 1	10.12.85	785.3	R01.2	10.17.00	Symptom-sign of heart disease,
Loud pulmonary component of S2,	to 1	10.12.86	785.3	R01.2	10.17.00	Symptom-sign of heart disease,
Ejection click,	to 1	10.12.87	785.3	R01.2	10.17.00	Symptom-sign of heart disease,
Opening snap,	to 1	10.12.88	785.3	R01.2	10.17.00	Symptom-sign of heart disease,
S3 present,	to 1	10.12.89	785.3	R01.2	10.17.00	Symptom-sign of heart disease,
S4 present,	to 1	10.12.90	785.3	R01.2	10.17.00	Symptom-sign of heart disease,
Gallop rhythm,	to 1	10.12.92	427.8	R00.8	10.17.00	Symptom-sign of heart disease,
Pericardial rub,	to 1	10.12.91	785.3	R01.2	10.17.00	Symptom-sign of heart disease,

746 Innocent functional murmur

Innocent functional murmur,	to 1	10.12.01	785.2	R01.0	10.12.01	Innocent functional murmur,
Innocent functional murmur - musical ejection type (Still's),	to 1	10.12.02	785.2	R01.0	10.12.01	Innocent functional murmur,
Innocent functional murmur - ejection type (pulmonary bifurcation),	to 1	10.12.03	785.2	R01.0	10.12.01	Innocent functional murmur,
Innocent functional murmur - venous hum,	to 1	10.12.04	785.2	R01.0	10.12.01	Innocent functional murmur,
Innocent functional murmur - carotid bruit,	to 1	10.12.05	785.2	R01.0	10.12.01	Innocent functional murmur,

747 Systolic murmurs

Systolic murmur,	to 1	10.12.08	785.2	R01.1	10.17.00	Symptom-sign of heart disease,
Ejection systolic murmur (crescendo-decrescendo),	to 1	10.12.09	785.2	R01.1	10.17.00	Symptom-sign of heart disease,
Pansystolic murmur,	to 1	10.12.10	785.2	R01.1	10.17.00	Symptom-sign of heart disease,
Mid systolic murmur,	to 1	10.12.12	785.2	R01.1	10.17.00	Symptom-sign of heart disease,
Early systolic murmur,	to 1	10.12.13	785.2	R01.1	10.17.00	Symptom-sign of heart disease,
Late systolic murmur,	to 1	10.12.14	785.2	R01.1	10.17.00	Symptom-sign of heart disease,
Decrescendo systolic murmur,	to 1	10.12.15	785.2	R01.1	10.17.00	Symptom-sign of heart disease,

748 Diastolic murmurs

Diastolic murmur,	to 1	10.12.16	785.2	R01.1	10.17.00	Symptom-sign of heart disease,
Early diastolic murmur,	to 1	10.12.17	785.2	R01.1	10.17.00	Symptom-sign of heart disease,
Mid diastolic murmur,	to 1	10.12.18	785.2	R01.1	10.17.00	Symptom-sign of heart disease,
Late diastolic-presystolic murmur,	to 1	10.12.19	785.2	R01.1	10.17.00	Symptom-sign of heart disease,

End of branch

750 Syncope and hypotensive disorders

Hypotension and hypotensive disorders	to 752	not relevant				
Syncope,	to 1	10.40.01	780.2	R55	10.40.01	Syncope,
Syncope on exertion,	to 1	10.40.14	780.2	R55	10.40.01	Syncope,
Arrhythmogenic syncope,	to 800	10.40.02	780.2	R55	10.40.01	Syncope,
Syncope due to acquired heart lesion,	to 600	10.40.03	780.2	R55	10.40.01	Syncope,
Syncope due to congenital heart lesion,	to 5	10.40.04	780.2	R55	10.40.01	Syncope,
Syncope associated with pulmonary hypertensive disorder,	to 680	10.40.05	780.2	R55	10.40.01	Syncope,
Neurally mediated-neurocardiogenic (vasovagal) syncope,	to 1	10.40.10	780.2	R55	G90.3	Syncope,
Vasovagal syncope,	to 1	10.40.11	780.2	R55	10.40.01	Syncope,
Situational syncope,	to 1	10.40.12	780.2	R55	10.40.01	Syncope,
Carotid sinus syncope,	to 1	10.40.13	337.0	G90.0	10.40.01	Syncope,
Migrainous syncope,	to 1	10.40.06	346.8	G43.3	10.40.01	Syncope,
Drug induced syncope,	to 985	10.40.07	780.2	R55	10.40.01	Syncope,
Psychogenic syncope,	to 1	10.40.08	306.2	F48.8	10.40.01	Syncope,
Familial dysautonomia (Riley-Day),	to 1	10.14.21	742.8	G90.1	10.23.04	Hereditary disorder associated with heart disease,

752 Hypotension and hypotensive disorders

Hypotension,	to 1	10.40.30	458.9	R55.9	10.40.30	Hypotension,
Postprocedural hypotension,	to 1883	15.00.08	997.1	T81.8	15.00.03	Postprocedural low cardiac output,
Hypotension due to cardiac dysfunction,	to 1	10.40.36	458.9	R55.8	10.40.30	Hypotension,
Idiopathic orthostatic hypotension,	to 1	10.40.31	458.9	R55.0	10.40.30	Hypotension,
Orthostatic-postural hypotension,	to 1	10.40.32	458.1	R55.1	10.40.30	Hypotension,
Secondary orthostatic hypotension,	to 1	10.40.33	458.9	R55.8	10.40.30	Hypotension,
Postural Orthostatic Tachycardia Syndrome (POTS),	to 1	10.40.37	780.2	R55	10.40.30	Hypotension,
Neurogenic orthostatic hypotension (Shy-Drager),	to 1	10.40.34	333.0	G90.3	10.40.30	Hypotension,
Hypotension due to drug,	to 985	10.40.35	458.0	R55.2	10.40.30	Hypotension,

End of branch

755 Chest pain and angina

Chest pain,	to 1	10.12.42	786.5	R07.4	10.12.42	Chest pain,
Non-anginal chest pain	to 756	not relevant				
Stable angina,	to 600	10.09.31	413	I20.9	10.12.51	Angina pectoris,
Unstable angina,	to 600	10.09.32	411	I20.0	10.12.51	Angina pectoris,
Prinzmetal angina,	to 600	10.09.33	411	I20.0	10.12.51	Angina pectoris,
Chest pain with normal coronary angiography (Syndrome X),	to 600	10.09.34	413	I25.8	10.12.51	Angina pectoris,
Angina pectoris,	to 742	10.12.51	413	I20.9	10.12.51	Angina pectoris,
Angina pectoris: with exertion (NYHA II),	to 742	10.12.52	413	I20.9	10.12.51	Angina pectoris,
Angina pectoris: with activities of daily living (NYHA III),	to 742	10.12.53	413	I20.8	10.12.51	Angina pectoris,
Angina pectoris: at rest (NYHA IV),	to 742	10.12.54	413	I20.9	10.12.51	Angina pectoris,
Canadian Cardiovascular Society Angina Classification Class 0	to 742	10.12.61	413	I20.9	10.12.51	Angina pectoris,
Canadian Cardiovascular Society Angina Classification Class 1	to 742	10.12.62	413	I20.9	10.12.51	Angina pectoris,
Canadian Cardiovascular Society Angina Classification Class 2	to 742	10.12.63	413	I20.9	10.12.51	Angina pectoris,
Canadian Cardiovascular Society Angina Classification Class 3	to 742	10.12.64	413	I20.9	10.12.51	Angina pectoris,
Canadian Cardiovascular Society Angina Classification Class 4	to 742	10.12.65	413	I20.9	10.12.51	Angina pectoris,
Angina pectoris: when lying (decubitus),	to 742	10.12.55	413	I20.9	10.12.51	Angina pectoris,
Angina following myocardial infarction,	to 742	10.12.56	413	I20.9	10.12.51	Angina pectoris,
Ischaemic heart disease	to 672	not relevant				

756 Non-anginal chest pain

Anterior chest pain with no cardiac pathology,	to 1	10.17.01	786.5	R07.3	10.12.42	Chest pain,
Chest pain due to respiratory disease,	to 4000	10.18.50	786.5	R07.3	10.12.42	Chest pain,
Chest pain due to oesophageal disease,	to 4035	10.18.51	786.5	R07.3	10.12.42	Chest pain,
Musculoskeletal chest pain,	to 951	10.18.52	729.9	M62.8	10.18.52	Musculoskeletal chest pain,
Musculoskeletal chest pain due to costochondral junction syndrome (Tietze),	to 951	10.18.53	733.6	M94.0	10.18.52	Musculoskeletal chest pain,
Musculoskeletal chest pain due to costochondritis,	to 951	10.18.54	732.8	M93.9	10.18.52	Musculoskeletal chest pain,
Musculoskeletal chest pain due to rib injury,	to 951	10.18.55	959.1	S20.3	10.18.52	Musculoskeletal chest pain,
Musculoskeletal chest pain due to slipping rib syndrome,	to 951	10.18.56	959.1	S20.3	10.18.52	Musculoskeletal chest pain,
Musculoskeletal chest pain due to sternal injury,	to 951	10.18.57	959.1	S20.3	10.18.52	Musculoskeletal chest pain,
Musculoskeletal chest pain due to intercostal myofascial injury,	to 951	10.18.58	959.1	S20.3	10.18.52	Musculoskeletal chest pain,
Musculoskeletal chest pain due to myositis,	to 951	10.18.59	729.1	M60.9	10.18.52	Musculoskeletal chest pain,
Musculoskeletal chest pain due to myositis: enterovirus epidemic myalgia (pleurodynia) (Bornholm),	to 951	10.18.60	074.1	B33.0	10.18.52	Musculoskeletal chest pain,
Musculoskeletal chest pain: psychogenic,	to 951	10.18.61	306.0	F45.4	10.18.52	Musculoskeletal chest pain,
Musculoskeletal chest pain: psychogenic with dysfunctional breathing (hyperventilation),	to 951	10.18.62	306.1	F45.3	10.18.52	Musculoskeletal chest pain,
Musculoskeletal chest pain: precordial catch syndrome (Texidor's twinge),	to 951	10.18.63	786.5	R07.2	10.18.52	Musculoskeletal chest pain,
Chest pain attributed to breast development,	to 951	10.18.64	786.5	R07.3	10.12.42	Chest pain,
Chest pain attributed to previous thoracic scar,	to 951	10.18.64	786.5	R07.3	10.12.42	Chest pain,

End of branch

757 Heart failure

Heart failure,	to 1	10.17.05	428.9	I50.9	10.17.05	Heart failure,
Congestive heart failure,	to 1	10.17.17	428.9	I50.9	10.17.05	Heart failure,
Right heart failure (pulmonary circulation),	to 1	10.17.19	428.9	I50.9	10.17.05	Heart failure,
Left heart failure (systemic circulation),	to 1	10.17.20	428.9	I50.9	10.17.05	Heart failure,
Right and left heart failure,	to 1	10.17.22	428.9	I50.9	10.17.05	Heart failure,
Low output heart failure,	to 1	10.17.24	428.9	I50.9	10.17.05	Heart failure,
High output heart failure,	to 1	10.17.25	428.9	I50.9	10.17.05	Heart failure,
Systolic heart failure,	to 1	10.17.26	428.9	I50.9	10.17.05	Heart failure,
Diastolic heart failure,	to 1	10.17.27	428.9	I50.9	10.17.05	Heart failure,

Right heart failure secondary to left heart failure,	to 1	10.17.28	428.0	I50.0	10.17.05	Heart failure,
Heart failure with preserved ejection fraction,	to 1	10.17.30	428.9	I50.9	10.17.05	Heart failure,

End of branch

758 Shock

Shock,	to 1	10.17.23	785.5	R57.9	10.17.23	Shock,
Anaphylactic shock,	to 1	10.17.80	995.0	T78.2	10.17.23	Shock,
Postprocedural anaphylactic shock,	to 1	15.67.02	995.0	T78.2	10.17.23	Shock,
Cardiogenic shock,	to 1	10.17.81	785.5	R57.0	10.17.23	Shock,
Postprocedural cardiogenic shock,	to 1	15.67.03	998.0	T81.1	10.17.23	Shock,
Hypovolemic (haematogenic) shock,	to 1	10.17.82	785.5	R57.1	10.17.23	Shock,
Postprocedural hypovolemic (haematogenic) shock,	to 1	15.67.04	998.0	T81.1	10.17.23	Shock,
Neurogenic shock (spinal injury related),	to 1	10.17.83	785.5	R57.8	10.17.23	Shock,
Postprocedural neurogenic shock (spinal injury related),	to 1	15.67.05	998.0	T81.1	10.17.23	Shock,
Postprocedural shock,	to 1	15.67.01	998	T81.1	10.17.23	Shock,
Post anaesthetic shock,	to 1	15.67.06	995.4	T88.2	10.17.23	Shock,
Septic shock,	to 1	10.17.84	785.5	A41.9	10.17.23	Shock,
Postprocedural septic shock,	to 1842	15.90.56	785.5	A41.9	10.17.23	Shock,
Endotoxic shock,	to 1	10.17.85	785.5	R57.8	10.17.23	Shock,
Vasogenic shock (psychic) (acute stress),	to 1	10.17.86	308.9	F43.0	10.17.23	Shock,
Postprocedural vasogenic shock (psychic) (acute stress),	to 1	15.67.07	308.9	F43.0	10.17.23	Shock,
Traumatic shock,	to 1	10.17.87	958.4	T79.4	10.17.23	Shock,

End of branch

760 Other symptoms & signs of heart or thoracic disease

Symptom-sign of heart disease,	to 1	10.17.00	785.9	R09.8	10.17.00	Symptom-sign of heart disease,
Symptomatic,	to 1	10.17.15	785.9	R09.8	10.17.00	Symptom-sign of heart disease,
Asymptomatic,	to 1	10.17.16			not relevant	
Cyanosis,	to 1	10.17.03	782.5	R23.0	10.17.03	Cyanosis,
Hypoxaemia,	to 1	10.12.58	782.5	R23.0	10.17.00	Symptom-sign of heart disease,
Heart failure,	to 723	not relevant				
Cardiomegaly,	to 1	10.17.18	429.3	I51.7	10.17.00	Symptom-sign of heart disease,
Collapse with shock,	to 1	10.12.31	785.5	R57.9	10.17.00	Symptom-sign of heart disease,
Shortness of breath,	to 1	10.12.32	786	R06.0	10.17.00	Symptom-sign of heart disease,
Stridor,	to 1	10.12.33	786.1	R06.1	10.17.00	Symptom-sign of heart disease,
Wheezing,	to 1	10.12.34	786	R06.2	10.17.00	Symptom-sign of heart disease,
Coughing,	to 1	10.12.35	786.2	R05	10.17.00	Symptom-sign of heart disease,
Haemoptysis,	to 1	10.12.36	785.3	R04.2	10.17.00	Symptom-sign of heart disease,
Epistaxis,	to 1	10.12.57	784.7	R04.0	10.17.00	Symptom-sign of heart disease,
Frequent chest infections,	to 1	10.12.37	518.9	J98.8	10.17.00	Symptom-sign of heart disease,
Poor feeding,	to 1	10.12.38	783.3	R63.3	10.17.00	Symptom-sign of heart disease,
Failure to thrive,	to 1	10.12.39	783.4	R62.8	10.12.39	Failure to thrive,
Cyanotic spells,	to 1	10.17.12	785.9	R09.8	10.17.12	Cyanotic spells,
Clubbing,	to 1	10.12.40	781.5	R68.3	10.17.00	Symptom-sign of heart disease,
Palpitations,	to 1	10.17.13	785.1	R00.2	10.17.13	Palpitations,
Dizziness,	to 1	10.12.70	780.4	R42	10.17.00	Symptom-sign of heart disease,
Irregular heart beat,	to 1	10.12.41	785.1	R00.8	10.17.00	Symptom-sign of heart disease,
Oedema,	to 1	10.12.43	782.3	R60.9	10.17.00	Symptom-sign of heart disease,
Hepatomegaly,	to 1	10.12.59	789.1	R16.0	10.17.00	Symptom-sign of heart disease,
Splenomegaly,	to 1	10.12.66	789.2	R16.1	10.17.00	Symptom-sign of heart disease,
Ascites,	to 1988	10.12.44	789.5	R19	10.17.00	Symptom-sign of heart disease,
Excessive sweating,	to 1	10.12.45	780.8	R61.9	10.17.00	Symptom-sign of heart disease,
Fatigue (lassitude),	to 1	10.12.46	780.7	R53	10.17.00	Symptom-sign of heart disease,
Delayed developmental milestones,	to 1	10.12.47	783.4	R62.0	10.17.00	Symptom-sign of heart disease,
Headache,	to 1	10.17.14	784	R51	10.17.00	Symptom-sign of heart disease,
Decreased exercise tolerance,	to 1	10.12.48	786.9	R09.8	10.17.00	Symptom-sign of heart disease,
Unwillingness to expose chest (psychogenic factor),	to 1	10.12.49	780.9	R46.8	10.17.00	Symptom-sign of heart disease,
Sudden cardiac death,	to 1	10.12.50	798.1	I46.1	10.17.00	Symptom-sign of heart disease,
Symptoms with no underlying pathology	to 762	not relevant				

762 Symptoms with no underlying pathology

Acrocyanosis,	to 1	10.12.21	443.8	I73.8	10.17.09	Cardiac symptom without pathology,
Non-anginal chest pain	to 756	not relevant				
Psychogenic hyperventilation,	to 1	10.17.02	306.1	F45.3	10.17.09	Cardiac symptom without pathology,
Cardiac symptom without pathology,	to 1	10.17.09	785.9	R09.8	10.17.09	Cardiac symptom without pathology,
Neurocirculatory asthenia (Da Costa),	to 1	10.12.60	306.2	F45.3	10.17.09	Cardiac symptom without pathology,

763 Noncardiac symptoms, signs or diseases

Postprocedural noncardiac symptoms and complications	to 1925	not relevant				
Noncardiac symptom,	to 1	13.50.00			not relevant	
Inability to eat,	to 1	13.50.01			not relevant	
Inability to sustain gastric feeding,	to 1	13.50.02			not relevant	
Metabolic derangement,	to 1	13.50.03	277.9	E88.9	not relevant	
Septicaemia,	to 1	13.50.04	38.9	A41.9	not relevant	
Exercise related transient abdominal pain (side stitch),	to 1	13.50.05	789.0	R10.1	not relevant	
Chronic (postviral) fatigue syndrome,	to 1	13.50.06	780.7	G93.3	not relevant	
Breath holding attacks,	to 1	13.50.07	786.9	R06.8	not relevant	

End of branch

765 Diagnostic investigations

Clinical evaluation of patient,	to 1	13.00.01			13.00.01	Clinical evaluation of patient,
Diagnostic investigation,	to 1	13.00.02			13.00.02	Diagnostic investigation,
Electrocardiographic (ECG) procedures	to 766	not relevant				
Echocardiographic procedures	to 782	not relevant				
Stress tests	to 768	not relevant				
Diagnostic catheterisation and angiographic procedures	to 1410	not relevant				
Arrhythmia provocation tests	to 779	not relevant				
Tilt table testing,	to 774	13.00.27			13.00.27	Tilt table testing,
Chest x-ray,	to 1	13.00.21			13.00.21	Chest x-ray,
Ambulatory blood pressure monitoring,	to 767	13.00.36			13.00.36	Ambulatory blood pressure monitoring,
Barium swallow,	to 1	13.00.22			13.00.02	Diagnostic investigation,
Computerised tomographic scan of chest,	to 1	13.00.23			13.00.23	Computerised tomographic scan of chest,
Cardiac computed tomographic angiography,	to 1	13.00.30			13.00.23	Computerised tomographic scan of chest,
Non-cardiac computed tomographic angiography on cardiac patient,	to 1	13.00.32			13.00.32	Non-cardiac computed tomographic angiography on cardiac patient,
Cardiovascular Magnetic Resonance Imaging (CMRI),	to 1	13.00.24			13.00.24	Cardiovascular Magnetic Resonance Imaging (CMRI),
Non-cardiovascular Magnetic Resonance Imaging on cardiac patient,	to 1	13.00.33			13.00.33	Non-cardiovascular Magnetic Resonance Imaging on cardiac patient,
Infrared cardiovascular imaging,	to 1	13.00.28			13.00.02	Diagnostic investigation,
Fetal magnetic resonance imaging,	to 990	13.00.29			13.00.24	Cardiovascular Magnetic Resonance Imaging (CMRI),
Fetal cardiovascular magnetic resonance imaging,	to 990	13.00.26			13.00.24	Cardiovascular Magnetic Resonance Imaging (CMRI),
Myocardial perfusion scan,	to 1	13.00.31			13.00.31	Myocardial perfusion scan,
Positron emission tomogram of heart,	to 1	13.00.41			13.00.02	Diagnostic investigation,
Pulmonary Function Tests,	to 1	13.00.25			13.00.25	Pulmonary Function Tests,
Exploratory procedure to assess heart,	to 1000	12.32.03			12.32.03	Exploratory procedure to assess heart,
Post mortem examination of heart-lungs,	to 1	13.00.71			13.00.71	Post mortem examination of heart-lungs,
Biopsy examination,	to 775	13.00.72			13.00.02	Diagnostic investigation,
Diagnostic radiographic procedure on cardiac patient,	to 1	13.00.34			13.00.34	Diagnostic radiographic procedure on cardiac patient,
Therapeutic radiological procedure on cardiac patient,	to 1	13.00.35			13.00.35	Therapeutic radiological procedure on cardiac patient,

766 Electrocardiographic (ECG) procedures

Electrocardiogram (ECG),	to 1	13.00.10			13.00.10	Electrocardiogram (ECG),
Ambulatory electrocardiography (ECG) recording,	to 767	13.00.17			13.00.17	Ambulatory electrocardiography (ECG) recording,
24 hour ambulatory electrocardiography (ECG) recording,	to 1	13.00.11			13.00.11	24 hour electrocardiogram (ECG) recording,
Ambulatory electrocardiography (ECG) recording: event recorder	to 767	13.00.18			13.00.17	Ambulatory electrocardiography (ECG) recording,
Ambulatory electrocardiography (ECG) recording: cardiomemo	to 767	13.00.19			13.00.17	Ambulatory electrocardiography (ECG) recording,
Signal averaged electrocardiogram (ECG),	to 767	13.00.20			13.00.10	Electrocardiogram (ECG),
Vectorcardiogram,	to 1	13.00.12			13.00.10	Electrocardiogram (ECG),
Insertable electrocardiogram (ECG) loop recorder (e.g. Reveal) implantation,	to 1	13.00.14			13.00.14	Insertable electrocardiogram (ECG) loop recorder (e.g. Reveal) implantation,
Insertable electrocardiogram (ECG) loop recorder (e.g. Reveal) removal,	to 1	13.00.15			13.00.15	Insertable electrocardiogram (ECG) loop recorder (e.g. Reveal) removal,

767 @ Ambulatory monitoring qualifiers

- 12-23 hour recording,	to 1	Q1.29.46			not relevant	
- 24 hour recording,	to 1	Q1.29.47			not relevant	
- 48 hour recording,	to 1	Q1.29.40			not relevant	
- 72 hour recording,	to 1	Q1.29.41			not relevant	
- 7 day recording,	to 1	Q1.29.42			not relevant	
- 2 week recording,	to 1	Q1.29.43			not relevant	
- 1 month recording,	to 1	Q1.29.44			not relevant	
- more than 1 month recording,	to 1	Q1.29.45			not relevant	
no entry	to 1	not relevant			not relevant	

768	Stress tests				
	Exercise stress test,	to 769	13.00.13	13.00.13	Exercise stress test,
	Cardiopulmonary exercise stress test,	to 769	13.00.16	13.00.16	Cardiopulmonary exercise stress test,
	Stress echocardiographic examination,	to 771	13.01.06	13.01.00	Echocardiographic examination,
	Stress test using atrial pacing,	to 772	13.01.34	13.00.02	Diagnostic investigation,
	Stress Cardiovascular Magnetic Resonance Imaging (CMR) examination,	to 771	13.01.35	13.00.24	Cardiovascular Magnetic Resonance Imaging (CMR),
769 @	Stress test exercise modality qualifiers				
	- 6 minute walk,	to 770	Q1.29.51		not relevant
	- treadmill,	to 770	Q1.29.52		not relevant
	- treadmill: Bruce protocol,	to 770	Q1.29.53		not relevant
	- treadmill: modified Bruce protocol,	to 770	Q1.29.54		not relevant
	- bicycle ergometry,	to 770	Q1.29.55		not relevant
	- bicycle ergometry: electronically braked,	to 770	Q1.29.56		not relevant
	- bicycle ergometry: mechanically braked,	to 770	Q1.29.57		not relevant
	- static exercise,	to 770	Q1.29.58		not relevant
	- static exercise: hand grip dynamometer,	to 770	Q1.29.59		not relevant
	- arm ergometry,	to 770	Q1.29.60		not relevant
	no entry	to 770	not relevant		
770 @	Stress test position qualifiers				
	- upright position,	to 772	Q1.29.71		not relevant
	- supine position,	to 772	Q1.29.72		not relevant
	no entry	to 772	not relevant		
771 @	Stress echocardiography qualifiers,				
	- dobutamine,	to 772	Q1.29.81		not relevant
	- dipyridamole,	to 772	Q1.29.82		not relevant
	- adenosine,	to 772	Q1.29.83		not relevant
	no entry	to 772	not relevant		
772	Stress test outcome				
	Asymptomatic during stress test,	to 773	13.02.30		not relevant
	Symptomatic during stress test,	to 773	13.02.31		not relevant
	Blunted heart rate response during stress test,	to 1	13.02.32		not relevant
	Blunted blood pressure response during stress test,	to 1	13.02.33		not relevant
	Blunted heart rate and blood pressure response during stress test,	to 1	13.02.34		not relevant
773 @	Stress test outcome qualifiers				
	- abnormally in right coronary artery distribution,	to 1	Q1.30.30		not relevant
	- under 50% systolic stenosis: right coronary artery distribution,	to 1	Q1.30.31		not relevant
	- between 50-75% systolic stenosis: right coronary artery distribution,	to 1	Q1.30.32		not relevant
	- over 75% systolic stenosis: right coronary artery distribution,	to 1	Q1.30.33		not relevant
	- abnormally in left coronary artery distribution,	to 1	Q1.30.34		not relevant
	- under 50% systolic stenosis: left coronary artery distribution,	to 1	Q1.30.35		not relevant
	- between 50-75% systolic stenosis: left coronary artery distribution,	to 1	Q1.30.36		not relevant
	- over 75% systolic stenosis: left coronary artery distribution,	to 1	Q1.30.37		not relevant
	- abnormally in circumflex coronary artery distribution,	to 1	Q1.30.38		not relevant
	- under 50% systolic stenosis: circumflex coronary artery distribution,	to 1	Q1.30.39		not relevant
	- between 50-75% systolic stenosis: circumflex coronary artery distribution,	to 1	Q1.30.40		not relevant
	- over 75% systolic stenosis: circumflex coronary artery distribution,	to 1	Q1.30.41		not relevant
	- abnormally in multiple coronary artery distributions,	to 1	Q1.30.42		not relevant
	no entry	to 1	not relevant		not relevant
774 @	Tilt table test methods and outcomes (qualifiers)				
	- using isoprenaline (isoproterenol),	to 1	Q1.30.01		not relevant
	- using glyceryl trinitrate,	to 1	Q1.30.02		not relevant
	- using transcranial ultrasound,	to 1	Q1.30.03		not relevant
	- normal (negative) response,	to 1	Q1.30.04		not relevant
	- vasodepressor response,	to 1	Q1.30.05		not relevant
	- cardioinhibitory response,	to 1	Q1.30.06		not relevant
	- mixed vasopressor and cardioinhibitory response,	to 1	Q1.30.07		not relevant
	- autonomic failure response,	to 1	Q1.30.08		not relevant
	- postural tachycardia response,	to 1	Q1.30.09		not relevant
	- equivocal response,	to 1	Q1.30.10		not relevant
	- test failure,	to 1	Q1.30.11		not relevant
	no entry	to 1	not relevant		
775 @	Biopsy Qualifiers				
	- light microscopy,	to 1	Q1.29.21		not relevant
	- electron microscopy,	to 1	Q1.29.22		not relevant
	- frozen biopsy,	to 1	Q1.29.23		not relevant
	no entry	to 1	not relevant		
779	Arrhythmia provocation tests				
	Arrhythmia provocation test,	to 780	13.00.50	13.00.50	Arrhythmia provocation test,
	Arrhythmia provocation test: accessory pathway,	to 780	13.00.51	13.00.50	Arrhythmia provocation test,
	Arrhythmia provocation test: long QT syndrome,	to 780	13.00.52	13.00.50	Arrhythmia provocation test,
	Arrhythmia provocation test: Brugada syndrome,	to 780	13.00.53	13.00.50	Arrhythmia provocation test,
780 @	Arrhythmia provocation test qualifiers				
	- using ajmaline,		Q1.29.90		not relevant
	- using flecainide,		Q1.29.91		not relevant
	- using adenosine,		Q1.29.92		not relevant
	no entry		not relevant		
782	Echocardiographic procedures and findings				
	Echocardiographic examination,	to 1	13.01.00	13.01.00	Echocardiographic examination,
	Echocardiographic assessment of heart function	to 786	not relevant		
	Echocardiographic screening	to 788	not relevant		
	Echocardiographic findings	to 790	not relevant		
	Transcatheter procedure undertaken with ultrasound guidance,	to 1402	not relevant		
	Complications related to echocardiographic procedures	to 2400	not relevant		
	Fetal echocardiographic examination,	to 990	13.01.01	13.01.01	Fetal echocardiographic examination,
	Transabdominal fetal echocardiographic examination,	to 990	13.01.25	13.01.25	Transabdominal fetal echocardiographic examination,
	Transvaginal fetal echocardiographic examination,	to 990	13.01.26	13.01.26	Transvaginal fetal echocardiographic examination,
	Transthoracic echocardiographic examination,	to 785	13.01.02	13.01.02	Transthoracic echocardiographic examination,
	Transoesophageal echocardiographic examination,	to 785	13.01.03	13.01.03	Transoesophageal echocardiographic examination,
	Epicardial echocardiographic examination,	to 785	13.01.04	13.01.04	Epicardial echocardiographic examination,
	Intravascular ultrasound (IVUS) examination,	to 785	13.01.27	13.01.27	Intravascular ultrasound (IVUS) examination,
	Echocardiographic examination using contrast medium,	to 785	13.01.05	13.01.00	Echocardiographic examination,
	Echocardiographic examination using contrast medium: agitated saline,	to 785	13.01.08	13.01.00	Echocardiographic examination,
	Echocardiographic examination using contrast medium: perfluorocarbon agent,	to 785	13.01.09	13.01.00	Echocardiographic examination,
	Myocardial perfusion contrast echocardiographic examination,	to 785	13.01.10	13.01.00	Echocardiographic examination,
	3D echocardiographic examination,	to 785	13.01.07	13.01.00	Echocardiographic examination,
	Transluminal intracardiac echocardiographic examination,	to 785	13.01.24	13.01.24	Transluminal intracardiac echocardiographic examination,
	Transluminal intracoronary echocardiography (IVUS),	to 785	12.23.41	12.23.41	Transluminal intracoronary echocardiography (IVUS),
785 @	Echocardiographic procedure qualifiers				
	- preprocedural,	to 1	Q1.90.63		not relevant
	- postprocedural,	to 1	Q1.90.64		not relevant
	- during procedure (intraprocedural),	to 5	Q1.91.61		not relevant
	- age under 18 years,	to 1	Q5.81.10		not relevant
	- age more than or equal to 18 years (adult),	to 1	Q5.81.11		not relevant
	- patient with congenital heart disease,	to 1	Q5.81.34		not relevant
	- patient with acquired heart disease,	to 1	Q5.81.35		not relevant
	- with sedation,	to 1	Q5.85.30	Q5.85.30	- with sedation,
	- under general anaesthesia,	to 1	Q5.85.31		not relevant
	no entry	to 1	not relevant		
786	Echocardiographic assessment of heart function				
	Echocardiographic assessment of ventricular function,	to 1	13.01.30	13.01.00	Echocardiographic examination,
	Echocardiographic assessment of left ventricular function,	to 1	13.01.31	13.01.00	Echocardiographic examination,
	Echocardiographic assessment of left ventricular systolic function,	to 1	13.01.32	13.01.00	Echocardiographic examination,
	Echocardiographic assessment of left ventricular diastolic function,	to 1	13.01.33	13.01.00	Echocardiographic examination,
	Echocardiographic assessment of right ventricular function,	to 1	13.01.41	13.01.00	Echocardiographic examination,
	Echocardiographic assessment of right ventricular systolic function,	to 1	13.01.42	13.01.00	Echocardiographic examination,
	Echocardiographic assessment of right ventricular diastolic function,	to 1	13.01.43	13.01.00	Echocardiographic examination,

788	Echocardiographic screening						
	Echocardiographic screening for congenital heart disease,	to 1	13.01.51	V82.8	Z13.7	13.01.00	Echocardiographic examination,
	Echocardiographic screening for cardiomyopathy,	to 1	13.01.52	V81.2	Z13.6	13.01.00	Echocardiographic examination,
	Echocardiographic screening for Marfan's syndrome,	to 1	13.01.53	V81.2	Z13.7	13.01.00	Echocardiographic examination,
	Fetal echocardiographic screening,	to 510	not relevant				
790	Echocardiographic findings						
	Echocardiographic abnormality,	to 1	13.01.61	793.2	R93.1	13.01.00	Echocardiographic examination,
	Echocardiographic study; no abnormality detected,	to 1	13.01.62			13.01.00	Echocardiographic examination,
	Fetal echocardiographic abnormality,	to 512	14.10.25	655.9	O28.3	14.10.25	Fetal echocardiographic abnormality,
	Fetal echocardiographic study; no abnormality detected,	to 990	14.12.00			14.10.00	Fetal cardiac abnormality not detected,
	Doppler echocardiographic findings	to 791	not relevant				
791	Doppler echocardiographic findings						
	Venous Doppler findings	to 795	not relevant				
	Tricuspid regurgitation - trace (functional),	to 1	10.32.05			not relevant	
	Mitral regurgitation - trace (functional),	to 1	10.33.05			not relevant	
	Pulmonary regurgitation - trace (functional),	to 1	10.35.05			not relevant	
	Aortic regurgitation - trace (functional),	to 1	10.36.05			not relevant	
	Truncal regurgitation - trace (functional),	to 1	10.37.05			not relevant	
	Common atrioventricular valvar regurgitation - trace (functional),	to 1	10.34.65			not relevant	
	Right atrioventricular valvar regurgitation - trace (functional),	to 1	10.34.05			not relevant	
	Left atrioventricular valvar regurgitation - trace (functional),	to 1	10.34.45			not relevant	
	Tricuspid valve biphasic diastolic filling,	to 1	13.02.01			not relevant	
	Tricuspid valve monophasic diastolic filling,	to 1	13.02.02			not relevant	
	Mitral valve biphasic diastolic filling,	to 1	13.02.11			not relevant	
	Mitral valve monophasic diastolic filling,	to 1	13.02.12			not relevant	
795	Venous Doppler findings						
	Normal venous Doppler findings,	to 3220	13.04.00			not relevant	
	Venous Doppler findings abnormal,	to 3220	13.04.01			not relevant	
	Fetal venous Doppler findings	to 518	not relevant				

END OF SECTION

800 Rhythm and conduction disturbances

	Generic and general heart rhythm disturbances	to 802	not relevant				
	Syncope and hypotensive disorders	to 750	not relevant				
	Cardiac arrest: types, causes & sequelae	to 805	not relevant				
	Supraventricular rhythm disturbances	to 810	not relevant				
	Ventricular rhythm disturbances	to 840	not relevant				
	Sinus node dysfunction and conduction disturbances	to 850	not relevant				
	Ion channelopathies (including QT & Brugada syndromes)	to 860	not relevant				
	Miscellaneous rhythm and conduction abnormalities	to 870	not relevant				
	Mechanisms and nature of arrhythmias - qualifiers	to 886	not relevant				
	Morphological variants of conduction system	to 890	not relevant				
	Pacemaker, implantable cardioverter & defibrillator (ICD) and arrhythmia related devices dysfunction and complications	to 900	not relevant				
	Coronary arterial supply to conduction system	to 473	not relevant				
	Causes and genetics of arrhythmias - qualifiers	to 856	not relevant				

802 Generic and general heart rhythm disturbances

	Arrhythmia,	to 886	11.00.00	427.9	H9.9	11.00.00	Arrhythmia,
	Sinus rhythm,	to 1	11.00.01			not relevant	
	Sinus arrhythmia,	to 1	11.00.02	427.8	H9.8	not relevant	
	Low atrial (coronary sinus) rhythm,	to 1	11.00.03	427.8	H9.8	11.20.00	Electrocardiographic (ECG) abnormality,
	Wandering atrial pacemaker,	to 1	11.02.17	427.8	H9.8	11.02.03	Sinus node dysfunction (including sick sinus),
	Electrocardiographic (ECG) abnormality,	to 1	11.20.00	794.3	R94.3	11.20.00	Electrocardiographic (ECG) abnormality,
	Arrhythmia during procedure,	to 886	15.60.01	997.1	R7.8	H9.9	11.00.00
	Arrhythmia following procedure,	to 886	15.60.02	997.1	R7.8	H9.9	15.60.02
	Arrhythmia not requiring treatment,	to 886	11.00.18	427.9	H9.9	11.00.00	Arrhythmia,
	Arrhythmia requiring treatment,	to 886	11.00.19	427.9	H9.9	11.00.00	Arrhythmia,
	Arrhythmia requiring drug treatment,	to 886	11.00.30	427.9	H9.9	11.00.00	Arrhythmia,
	Arrhythmia requiring electrical cardioversion treatment,	to 886	11.00.31	427.9	H9.9	11.00.00	Arrhythmia,
	Arrhythmia necessitating treatment with pacemaker,	to 886	11.00.20	427.9	H9.9	11.00.00	Arrhythmia,
	Arrhythmia necessitating treatment with pacemaker: temporary,	to 886	11.00.32	427.9	H9.9	11.00.00	Arrhythmia,
	Arrhythmia necessitating treatment with pacemaker: permanent,	to 886	11.00.33	427.9	H9.9	11.00.00	Arrhythmia,
	Postprocedural conduction disturbance,	to 850	15.60.03	997.1	R7.1	11.06.00	Conduction disturbance,
	Procedure related non-heart block arrhythmia requiring temporary pacing,	to 1	15.60.05	997.1	R7.1	11.06.00	Conduction disturbance,
	Procedure related non-heart block arrhythmia requiring permanent pacemaker system,	to 1	15.60.06	997.1	R7.1	11.06.00	Conduction disturbance,
	Arrhythmia due to endocardial vegetations,	to 616	11.00.10	427.9	421	H9.9	11.00.00
	Sudden Arrhythmic Death Syndrome (SADS),	to 1	11.00.11	798.1	H6.1	11.00.11	Sudden Arrhythmic Death Syndrome (SADS),
	Sudden Arrhythmic Death Syndrome (SADS) with functioning implantable cardioverter & defibrillator,	to 1	11.00.12	798.1	H6.1	11.00.11	Sudden Arrhythmic Death Syndrome (SADS),
	Commotio cordis (sudden fatal arrhythmia after precordial blunt impact),	to 1	11.00.13	798.1	H6.1	11.00.11	Sudden Arrhythmic Death Syndrome (SADS),
	Sinus tachycardia,	to 1	11.02.07	427.8	H7.1	11.02.07	Sinus tachycardia,
	Sinus tachycardia: appropriate,	to 1	11.00.14	427.8	H7.1	11.02.07	Sinus tachycardia,
	Premature beats,	to 1	11.00.15	427.9	H9.9	11.00.00	Arrhythmia,
	Paroxysmal tachycardia,	to 1	11.00.16	427.9	H9.9	11.00.00	Arrhythmia,
	Bradycardia,	to 1	11.00.17	427.8	H9.8	11.02.04	Sinus bradycardia,
	Fetal arrhythmia,	to 1	14.10.06	788.2	O35.8	14.10.06	Fetal arrhythmia,

End of branch

805 Cardiac arrest: types, causes & sequelae

	Cardiac arrest,	to 806	11.00.21	427.5	H6.9	11.00.21	Cardiac arrest,
	Cardiac arrest prior to procedure	to 806	11.00.22	997.1	T81.8	11.00.21	Cardiac arrest,
	Cardiac arrest during procedure,	to 806	15.00.01	997.1	T81.8	15.00.01	Cardiac arrest during procedure,
	Cardiac arrest following procedure,	to 806	15.00.02	997.1	R7.8	15.00.02	Cardiac arrest following procedure,
	Cardiac arrest during or following procedure,	to 806	15.00.23	997.1	R7.8	15.00.02	Cardiac arrest following procedure,
	Cardiac arrest during period of anaesthetic care,	to 806	15.90.21	997.1	T81.8	15.00.01	Cardiac arrest during procedure,
	Cardiac arrest on induction of anaesthesia,	to 806	15.90.22	997.1	T81.8	15.00.01	Cardiac arrest during procedure,
	Cardiac arrest during patient transportation,	to 806	15.90.41	427.5	H6.9	11.00.21	Cardiac arrest,
	Cardiac arrest in hospital,	to 806	11.00.23	427.5	H6.9	11.00.21	Cardiac arrest,
	Cardiac arrest out of hospital,	to 806	11.00.24	427.5	H6.9	11.00.21	Cardiac arrest,
	Cardiac arrest: witnessed,	to 806	11.00.25	427.5	H6.9	11.00.21	Cardiac arrest,
	Cardiac arrest: not witnessed,	to 806	11.00.26	427.5	H6.9	11.00.21	Cardiac arrest,

806 @ Types and causes of cardiac arrest - qualifiers

	- initial rhythm: asystole,	to 807	Q1.00.31			not relevant	
	- arrhythmic,	to 807	Q1.00.32	427.9	H9.9	not relevant	
	- initial rhythm: ventricular tachycardia,	to 807	Q1.00.42			not relevant	
	- initial rhythm: ventricular fibrillation,	to 807	Q1.00.43			not relevant	
	- due to mechanical obstruction to flow,	to 807	Q1.00.33			not relevant	
	- due to rupture of cardiac structure,	to 807	Q1.00.34	410	Z1.9	not relevant	
	- due to primary respiratory arrest,	to 807	Q1.00.35	799.1	R09.2	not relevant	
	- metabolically induced,	to 807	Q1.00.36	277.9	E88.9	not relevant	
	- drug induced,	to 807	Q1.00.37	995.2	T88.7	not relevant	
	- pulseless electrical activity (PEA) (electromechanical dissociation-EMD),	to 807	Q1.00.38	426.7	H5.8	not relevant	
	- increased intracranial pressure,	to 807	Q1.00.39	348.4	G93.5	not relevant	
	- due to mechanical coronary compression,	to 807	Q1.00.40			not relevant	
	- due to acute haemorrhage,	to 807	Q1.00.41			not relevant	
	- due to drowning,	to 807	Q1.00.44	427.5		not relevant	
	- due to electrocution,	to 807	Q1.00.45	427.5		not relevant	
	- due to pacemaker failure,	to 807	Q1.00.46	996.7	T82.1	not relevant	
	- cardiac arrest type (DESCRIBE),	to 807	Q1.00.49			not relevant	
	- aetiology unknown,	to 807	Q1.90.95			not relevant	
	Specific metabolic derangement	to 1935	not relevant				
	no entry	to 807	not relevant				

807 @ Sequelae & outcome after cardiac arrest - qualifiers

	- leading to sustained low cardiac output,	to 1	Q1.00.51	428.9	F0.9	not relevant	
	- successful resuscitation,	to 1	Q1.00.52		H6.0	not relevant	
	- failed resuscitation,	to 1	Q1.00.53			not relevant	
	- leading to abandonment of procedure,	to 1	Q1.00.54			not relevant	
	- leading to commencement of extracorporeal life support,	to 1	Q1.00.55			not relevant	
	- cardiac arrest outcome (DESCRIBE),	to 1	Q1.00.59			not relevant	
	no entry	to 1	not relevant				

End of branch

810 Supraventricular and atrioventricular junction rhythm disturbances

Supraventricular rhythm disturbance,	to 886	11.01.01	427.0	H9.8	11.01.01	Supraventricular rhythm disturbance,
Supraventricular tachycardia (SVT),	to 886	11.01.00	427.0	H7.1	11.01.00	Supraventricular tachycardia (SVT),
Supraventricular tachycardia (SVT): atrial,	to 815	11.01.02	427.0	H7.1	11.01.00	Supraventricular tachycardia (SVT),
Supraventricular tachycardia (SVT): junctional (atrioventricular level),	to 830	11.01.03	427.0	H7.1	11.01.00	Supraventricular tachycardia (SVT),
Supraventricular premature beats (complexes-contractions),	to 886	11.01.04	427.0	H9.8	11.01.01	Supraventricular rhythm disturbance,
Fetal supraventricular tachycardia (SVT) with short ventriculoatrial (RP) interval,	to 886	11.01.05	427.0	H7.1	11.01.00	Supraventricular tachycardia (SVT),
Fetal supraventricular tachycardia (SVT) with long ventriculoatrial (RP) interval,	to 886	11.01.06	427.0	H7.1	11.01.00	Supraventricular tachycardia (SVT),
Accelerated atrioventricular conduction (short PR interval),	to 1	11.01.07	427.0	H9.8	11.01.01	Supraventricular rhythm disturbance,
Atrial rhythm disturbance	to 815	not relevant				
Sinus node dysfunction and conduction disturbances	to 850	not relevant				
Atrioventricular reciprocating (reentry) tachycardia (accessory pathway mediated)	to 832	not relevant				
Causes and genetics of arrhythmias - qualifiers	to 856	not relevant				

815 Atrial rhythm disturbance

Incessant atrial tachycardia,	to 820	11.03.06	427.8	H7.1	11.01.00	Supraventricular tachycardia (SVT),
Atrial rhythm disturbance,	to 1	11.03.09	427.8	H9.8	11.01.01	Supraventricular rhythm disturbance,
Ectopic atrial rhythm,	to 1	11.03.52	427.8	H9.8	11.01.01	Supraventricular rhythm disturbance,
Focal atrial tachycardia,	to 817	not relevant				
Macro-reentrant tachycardia (including atrial flutter)	to 820	not relevant				
Atrial fibrillation	to 822	not relevant				
Premature atrial beats (complexes-contractions)	to 825	not relevant				
Atrial arrhythmia following interruption of normal blood supply,	to 1	11.03.50	427.8	H9.8	11.01.01	Supraventricular rhythm disturbance,
Atrial arrhythmia due to high atrial wall stress or hypertrophy,	to 1	11.03.51	427.8	H9.8	11.01.01	Supraventricular rhythm disturbance,
Postprocedural atrial rhythm disturbance,	to 1	11.03.11	997.1	H7.8	15.60.02	Arrhythmia following procedure,
Sinusal rhythm disturbance,	to 1	11.02.10	427.8	H9.8	11.02.03	Sinus node dysfunction (including sick sinus),
Paroxysmal atrial tachycardia,	to 1	11.03.05	427	H7.1	11.03.05	Paroxysmal atrial tachycardia,

817 Focal atrial tachycardia,

Focal atrial tachycardia,	to 880	11.03.60	427.8	H7.1	11.03.12	Focal atrial tachycardia: ectopic (automatic),
Sinus tachycardia: inappropriate,	to 1	11.03.61	427.8	H7.1	11.02.07	Sinus tachycardia,
Sinus nodal reentry tachycardia,	to 1	11.02.12	427.8	H7.1	11.03.12	Focal atrial tachycardia: ectopic (automatic),
Focal atrial tachycardia: ectopic (automatic),	to 880	11.03.12	427.8	H7.1	11.03.12	Focal atrial tachycardia: ectopic (automatic),
Multifocal atrial tachycardia (chaotic),	to 880	11.03.15	427.8	H7.1	11.03.15	Multifocal atrial tachycardia (chaotic),

820 Macro-reentrant atrial tachycardia (including atrial flutter),

Macro-reentrant atrial tachycardia (including atrial flutter),	to 1	11.03.13	427.8	H7.1	11.03.13	Macro-reentrant atrial tachycardia (including atrial flutter),
Atrial flutter,	to 838	11.03.07	427.3	H8	11.03.07	Atrial flutter,
Atrial flutter with preexcitation,	to 838	11.07.25	426.7	H5.6	11.03.07	Atrial flutter,
Cavotricuspid isthmus dependent macro-reentrant atrial tachycardia (atrial flutter),	to 838	11.03.66	427.8	H9.8	11.03.66	Cavotricuspid isthmus dependent atrial tachycardia (including atrial flutter),
Cavotricuspid isthmus dependent macro-reentrant atrial tachycardia: typical atrial flutter: anticlockwise,	to 838	11.03.43	427.3	H9.8	11.03.66	Cavotricuspid isthmus dependent atrial tachycardia (including atrial flutter),
Cavotricuspid isthmus dependent macro-reentrant atrial tachycardia: atypical (reverse) atrial flutter: clockwise,	to 838	11.03.44	427.8	H9.8	11.03.66	Cavotricuspid isthmus dependent atrial tachycardia (including atrial flutter),
Cavotricuspid isthmus dependent macro-reentrant atrial tachycardia: scar mediated (intraatrial reentry),	to 880	11.03.46	427.8	H9.8	11.03.66	Cavotricuspid isthmus dependent atrial tachycardia (including atrial flutter),
Non-cavotricuspid isthmus dependent macro-reentrant atrial tachycardia,	to 1	11.03.67	427.8	H9.8	11.03.67	Non-cavotricuspid isthmus dependent atrial tachycardia,
Non-cavotricuspid isthmus dependent macro-reentrant atrial tachycardia: scar mediated (intraatrial reentry),	to 880	11.03.45	427.8	H9.8	11.03.67	Non-cavotricuspid isthmus dependent atrial tachycardia,
Non-cavotricuspid isthmus dependent macro-reentrant atrial tachycardia: non-scar mediated (intraatrial reentry),	to 1	11.03.48	427.8	H9.8	11.03.67	Non-cavotricuspid isthmus dependent atrial tachycardia,

822 Atrial fibrillation - descriptive

Atrial fibrillation,	to 823	11.03.08	427.3	H8	11.03.08	Atrial fibrillation,
Atrial fibrillation: first episode,	to 823	11.03.19	427.3	H8	11.03.08	Atrial fibrillation,
Atrial fibrillation: paroxysmal (less than or equal to 7 days duration),	to 823	11.03.16	427.3	H8	11.03.08	Atrial fibrillation,
Atrial fibrillation: persistent (more than 7 days duration),	to 823	11.03.17	427.3	H8	11.03.08	Atrial fibrillation,
Atrial fibrillation: permanent,	to 823	11.03.18	427.3	H8	11.03.08	Atrial fibrillation,
Atrial fibrillation,	to 823	11.03.08	427.3	H8	11.03.08	Atrial fibrillation,
Atrial fibrillation with preexcitation,	to 823	11.07.24	426.7	H5.6	11.03.08	Atrial fibrillation,
Atrial flutter with preexcitation,	to 838	11.07.25	426.7	H5.6	11.03.07	Atrial flutter,

823 Atrial fibrillation - mechanism

Atrial fibrillation: focal,	to 880	11.03.55	427.3	H8	11.03.08	Atrial fibrillation,
Atrial fibrillation: multiple circuits,	to 880	11.03.56	427.3	H8	11.03.08	Atrial fibrillation,
Atrial fibrillation: multiple circuits (left atrial macro-reentrant),	to 880	11.03.57	427.3	H8	11.03.08	Atrial fibrillation,
Atrial fibrillation: multiple circuits (right atrial macro-reentrant),	to 880	11.03.58	427.3	H8	11.03.08	Atrial fibrillation,

825 Premature atrial complexes

Premature atrial beats (complexes-contractions),	to 1	11.03.21	427.6	H9.1	11.03.21	Premature atrial beats (complexes-contractions),
Premature atrial beats (complexes-contractions) with normal conduction,	to 1	11.03.22	427.6	H9.1	11.03.21	Premature atrial beats (complexes-contractions),
Premature atrial beats (complexes-contractions) with aberrant ventricular conduction,	to 1	11.03.23	427.6	H9.1	11.03.21	Premature atrial beats (complexes-contractions),
Premature atrial beats (complexes-contractions) with atrioventricular block,	to 1	11.03.24	427.6	H9.1	11.03.21	Premature atrial beats (complexes-contractions),
Premature atrial beats (complexes-contractions) with atrial bigeminy,	to 1	11.03.25	427.6	H9.1	11.03.21	Premature atrial beats (complexes-contractions),
Premature atrial beats (complexes-contractions) with atrial trigeminy,	to 1	11.03.26	427.6	H9.1	11.03.21	Premature atrial beats (complexes-contractions),
Premature atrial beats (complexes-contractions) with interposition (fusion),	to 1	11.03.30	427.6	H9.1	11.03.21	Premature atrial beats (complexes-contractions),

830 Rhythm disturbance at level of atrioventricular junction

Atrioventricular reentry (reciprocating) tachycardia (accessory pathway mediated)	to 832	not relevant				
Rhythm disturbance at level of atrioventricular junction,	to 1	11.04.00	427.8	H9.8	11.04.00	Rhythm disturbance at level of atrioventricular junction,
Rhythm disturbance at level of atrioventricular junction: accelerated junctional rhythm (automatic),	to 1	11.04.40	427.8	H9.8	11.04.00	Rhythm disturbance at level of atrioventricular junction,
Rhythm disturbance at level of atrioventricular junction: junctional rhythm (automatic),	to 1	11.04.41	427.8	H9.8	11.04.00	Rhythm disturbance at level of atrioventricular junction,
Atrioventricular junctional (nodal) or junctional escape bradycardia,	to 1	11.04.03	427.8	H9.2	11.04.00	Rhythm disturbance at level of atrioventricular junction,
Atrioventricular junctional (nodal) premature complexes,	to 1	11.04.21	427.6	H9.2	11.04.00	Rhythm disturbance at level of atrioventricular junction,
Atrioventricular junctional (nodal) premature complexes with aberrant ventricle conduction,	to 1	11.04.25	427.6	H9.2	11.04.00	Rhythm disturbance at level of atrioventricular junction,
Atrioventricular junctional (nodal) tachycardia,	to 1	11.04.07	427.0	H7.1	11.04.07	Atrioventricular junctional (nodal) tachycardia,
Atrioventricular junctional (nodal) arrest,	to 1	11.04.43	427.6	H9.2	11.04.00	Rhythm disturbance at level of atrioventricular junction,
Atrioventricular junctional (nodal) escape rhythm,	to 1	11.04.44	427.6	H9.2	11.04.00	Rhythm disturbance at level of atrioventricular junction,
Atrioventricular nodal reentry tachycardia (AVNRT),	to 1	11.04.11	427.0	H7.1	11.04.11	Atrioventricular nodal reentry tachycardia (AVNRT),
Atrioventricular nodal reentry tachycardia (AVNRT): typical: slow-fast (dual pathway physiology),	to 1	11.07.17	426.7	H5.8	11.04.00	Rhythm disturbance at level of atrioventricular junction,
Atrioventricular nodal reentry tachycardia (AVNRT): atypical: fast-slow (dual pathway physiology),	to 1	11.07.18	426.7	H5.8	11.04.00	Rhythm disturbance at level of atrioventricular junction,
Atrioventricular nodal reentry tachycardia (AVNRT): atypical: slow-slow (dual pathway physiology),	to 1	11.07.40	426.7	H5.8	11.04.00	Rhythm disturbance at level of atrioventricular junction,
Atrioventricular nodal reentry tachycardia: complex (including multiple nodal physiology),	to 1	11.04.45	426.7	H5.8	11.04.00	Rhythm disturbance at level of atrioventricular junction,
Atrioventricular nodal reentry tachycardia (complex AVNRT): twin AV nodes (multiple nodal physiology),	to 1	11.07.19	426.7	H5.8	11.04.00	Rhythm disturbance at level of atrioventricular junction,
Junctional ectopic tachycardia (His bundle),	to 1	11.04.42	427.0	H7.1	11.04.42	Junctional ectopic tachycardia (His bundle),
Junctional ectopic tachycardia (His bundle): post-op,	to 1	11.04.12	997.1	H7.1	11.04.42	Junctional ectopic tachycardia (His bundle): post-op,
Junctional ectopic tachycardia (His bundle): congenital,	to 1	11.04.13	427.0	H7.1	11.04.42	Junctional ectopic tachycardia (His bundle),
Atrial fibrillation with preexcitation,	to 823	11.07.24	426.7	H5.6	11.03.08	Atrial fibrillation,
Atrial flutter with preexcitation,	to 838	11.07.25	426.7	H5.6	11.03.07	Atrial flutter,

832 Atrioventricular reentry (reciprocating) tachycardia (accessory pathway mediated)

Atrioventricular reentry (reciprocating) tachycardia (accessory pathway mediated),	to 835	11.07.29	426.7	H5.6	11.07.29	Atrioventricular reciprocating (reentry) tachycardia (accessory pathway mediated),
Atrioventricular reentry (reciprocating) tachycardia: manifest preexcitation in sinus rhythm (Wolff Parkinson White),	to 835	11.07.01	426.7	H5.6	11.07.01	Atrioventricular reciprocating (reentry) tachycardia: manifest preexcitation in sinus rhythm (Wolff Parkinson White),
Atrioventricular reentry (reciprocating) tachycardia: manifest preexcitation in sinus rhythm (Wolff Parkinson White): symptomatic,	to 835	11.07.30	426.7	H5.6	11.07.01	Atrioventricular reciprocating (reentry) tachycardia: manifest preexcitation in sinus rhythm (Wolff Parkinson White),
Atrioventricular reentry (reciprocating) tachycardia: manifest preexcitation in sinus rhythm: asymptomatic,	to 835	11.07.31	426.7	H5.6	11.07.01	Atrioventricular reciprocating (reentry) tachycardia: manifest preexcitation in sinus rhythm (Wolff Parkinson White),
Atrioventricular reentry (reciprocating) tachycardia: orthodromic (typically narrow QRS),	to 835	11.07.22	426.7	H5.6	11.07.22	Atrioventricular reciprocating (reentry) tachycardia: orthodromic,
Atrioventricular reentry (reciprocating) tachycardia: orthodromic (typically narrow QRS): concealed (no preexcitation in sinus rhythm),	to 835	11.07.32	426.7	H5.6	11.07.22	Atrioventricular reciprocating (reentry) tachycardia: orthodromic,
Atrioventricular reentry (reciprocating) tachycardia (typically narrow QRS): orthodromic: manifest (preexcitation in sinus rhythm),	to 835	11.07.33	426.7	H5.6	11.07.22	Atrioventricular reciprocating (reentry) tachycardia: orthodromic,
Atrioventricular reentry (reciprocating) tachycardia: antidromic (typically wide QRS),	to 835	11.07.23	426.7	H5.6	11.07.23	Atrioventricular reentry (reciprocating) tachycardia: antidromic (typically wide QRS),
Atrioventricular reentry (reciprocating) tachycardia: orthodromic & antidromic,	to 835	11.07.28	426.7	H5.6	11.07.28	Atrioventricular reentry (reciprocating) tachycardia: orthodromic & antidromic,
Permanent junctional reciprocating tachycardia (PJRT),	to 835	11.07.14	427.8	H7.1	11.07.14	Permanent junctional reciprocating tachycardia (PJRT),

835 Accessory pathway substrates for atrioventricular rhythm disturbance

Manifest accessory pathway,	to 885	11.07.11	426.7	H5.6	11.07.11	Manifest accessory pathway,
Manifest accessory pathway: delta wave disappearance with exercise,	to 885	11.07.36	426.7	H5.6	11.07.11	Manifest accessory pathway,
Manifest accessory pathway: delta wave persists with exercise,	to 885	11.07.37	426.7	H5.6	11.07.11	Manifest accessory pathway,
Accessory pathway: antegrade conduction only (preexcitation sinus rhythm),	to 885	11.07.21	426.7	H5.6	11.07.11	Manifest accessory pathway,
Accessory pathway: retrograde conduction only (concealed: no preexcitation sinus rhythm),	to 885	11.07.06	426.7	H5.8	11.07.06	Accessory pathway: retrograde conduction only (concealed: no preexcitation sinus rhythm),
Accessory pathway: antegrade & retrograde conduction (preexcitation sinus rhythm),	to 885	11.07.27	426.7	H5.8	11.07.11	Manifest accessory pathway,
Accessory pathway: atriofascicular (Mahaim),	to 885	11.07.12	426.7	H5.8	11.07.11	Manifest accessory pathway,
Accessory pathway: concealed with decremental conduction properties,	to 885	11.07.20	426.7	H5.8	11.07.06	Accessory pathway: retrograde conduction only (concealed: no preexcitation sinus rhythm),
Accessory pathway: antegrade conduction only with decremental properties	to 885	11.07.34	426.7	H5.8	11.07.11	Manifest accessory pathway,
Accessory pathway: retrograde conduction only with decremental properties	to 885	11.07.35	426.7	H5.8	11.07.06	Accessory pathway: retrograde conduction only (concealed: no preexcitation sinus rhythm),
Multiple accessory pathways,	to 885	11.07.26	426.7	H5.6	11.07.26	Multiple accessory pathways,
No entry	to 885	not relevant				

838 @ Variable atrioventricular conduction qualifiers

- 1:1 atrioventricular conduction,	to 1	Q1.00.61				not relevant
- 2:1 atrioventricular conduction,	to 1	Q1.00.62				not relevant
- 3:1 atrioventricular conduction,	to 1	Q1.00.63				not relevant
- 4:1 atrioventricular conduction,	to 1	Q1.00.64				not relevant
- 5:1 atrioventricular conduction,	to 1	Q1.00.65				not relevant
- variable atrioventricular conduction,	to 1	Q1.00.66				not relevant
- fixed atrioventricular conduction,	to 1	Q1.00.67				not relevant
no entry	to 1	not relevant				

End of branch

840 Ventricular rhythm disturbances

Ventricular rhythm disturbance,	to 886	11.05.00	427.8		H9.8	11.05.00	Ventricular rhythm disturbance,
Ventricular tachycardia - descriptive	to 841	not relevant					
Macro-reentrant ventricular tachycardia	to 842	not relevant					
Focal ventricular tachycardia	to 843	not relevant					
Ventricular tachycardia: aetiology	to 844	not relevant					
Idiopathic fascicular left ventricular tachycardia,	to 1	11.05.43	427.1		H7.2	11.05.06	Ventricular tachycardia,
Idioventricular rhythm,	to 1	11.05.19	427.8		H9.8	11.05.00	Ventricular rhythm disturbance,
Postprocedural ventricular rhythm disturbance,	to 1	11.05.13	997.1		H9.9	15.60.02	Arrhythmia following procedure,
Ventricular arrest,	to 1	11.05.03	427.5		H9.8	11.05.00	Ventricular rhythm disturbance,
Ventricular fibrillation,	to 886	11.05.10	427.4		H9.0	11.05.10	Ventricular fibrillation,
Idiopathic ventricular fibrillation,	to 856	11.05.55	426.9		H5.8	11.05.10	Ventricular fibrillation,
Ventricular flutter,	to 1	11.05.09	427.4		H9.0	11.05.09	Ventricular flutter,
Premature ventricular beats (complexes-contractions)	to 846	not relevant					
Causes and genetics of arrhythmias - qualifiers	to 856	not relevant					

841 Ventricular tachycardia - descriptive

Ventricular tachycardia,	to 1	11.05.06	427.1		H7.2	11.05.06	Ventricular tachycardia,
Ventricular tachycardia: fast (rate usually over 180),	to 1	11.05.78	427.1		H7.2	11.05.06	Ventricular tachycardia,
Ventricular tachycardia: slow (rate usually less than 150),	to 1	11.05.79	427.1		H7.2	11.05.06	Ventricular tachycardia,
Accelerated idioventricular ventricular rhythm (slow VT),	to 1	11.05.05	427.1		H7.2	11.05.06	Ventricular tachycardia,
Paroxysmal ventricular tachycardia,	to 1	11.05.07	427.1		H7.9	11.05.06	Ventricular tachycardia,
Non-sustained ventricular tachycardia,	to 1	11.05.50	427.1		H7.2	11.05.50	Non-sustained ventricular tachycardia,
Sustained ventricular tachycardia,	to 1	11.05.51	427.1		H7.9	11.05.06	Ventricular tachycardia,
Idiosyncratic ventricular tachycardia,	to 1	11.05.81	427.1		H7.9	11.05.06	Ventricular tachycardia,
Bidirectional ventricular tachycardia,	to 1	11.05.39	427.1		H7.2	11.05.06	Ventricular tachycardia,
Monomorphic ventricular tachycardia,	to 1	11.05.41	427.1		H7.2	11.05.06	Ventricular tachycardia,
Polymorphic ventricular tachycardia,	to 1	11.05.42	427.1		H7.2	11.05.06	Ventricular tachycardia,
Torsade de pointes,	to 886	11.05.14	427.1		H7.2	11.05.06	Ventricular tachycardia,
Ventricular tachycardia associated with 1:1 conduction in atrial flutter,	to 1	11.05.70	427.1		H7.2	11.05.06	Ventricular tachycardia,

842 Macro-reentrant Ventricular Tachycardia

Macro-reentrant ventricular tachycardia,	to 883	11.05.57	427.1		H7.2	11.05.57	Macro-reentrant ventricular tachycardia,
Bundle branch reentry ventricular tachycardia,	to 1	11.05.36	427.1		H7.2	11.05.57	Macro-reentrant ventricular tachycardia,
Idiopathic fascicular ventricular tachycardia (reentry + right bundle branch pattern),	to 1	11.05.75	427.1		H7.2	11.05.57	Macro-reentrant ventricular tachycardia,
Idiopathic fascicular ventricular tachycardia (reentry + right bundle branch pattern): left posterior with left axis (verapamil sensitive) (Belhassen),	to 1	11.05.63	427.1		H7.2	11.05.57	Macro-reentrant ventricular tachycardia,
Idiopathic fascicular ventricular tachycardia (reentry + right bundle branch pattern): left anterior with right axis,	to 1	11.05.76	427.1		H7.2	11.05.57	Macro-reentrant ventricular tachycardia,
Idiopathic fascicular ventricular tachycardia (reentry): left upper septal with narrow QRS & normal axis (rare),	to 1	11.05.77	427.1		H7.2	11.05.57	Macro-reentrant ventricular tachycardia,

843 Focal ventricular tachycardia

Focal ventricular tachycardia,	to 883	11.05.56	427.1		H7.2	11.05.56	Focal ventricular tachycardia,
Focal ventricular tachycardia: automatic (ectopic) with triggered activity (micro-reentrant),	to 883	11.05.38	427.1		H7.2	11.05.56	Focal ventricular tachycardia,
Idiopathic left ventricular tachycardia: focal,	to 883	11.05.64	427.1		H7.2	11.05.56	Focal ventricular tachycardia,
Microreentry ventricular tachycardia,	to 883	11.05.61	427.1		H7.2	11.05.56	Focal ventricular tachycardia,
Idiopathic right ventricular outflow tract tachycardia: focal,	to 1	11.05.37	427.1		H7.2	11.05.56	Focal ventricular tachycardia,
Idiopathic left ventricular outflow tract tachycardia: focal,	to 1	11.05.62	427.1		H7.2	11.05.56	Focal ventricular tachycardia,

844 Ventricular tachycardia - aetiology

Ion channelopathies (including QT & Brugada syndromes)	to 860	not relevant					
Idiopathic ventricular tachycardia,	to 1	11.05.16	427.1		H7.2	11.05.06	Ventricular tachycardia,
Exercise induced ventricular tachycardia,	to 1	11.05.12	427.1		H7.2	11.05.06	Ventricular tachycardia,
Bradycardia induced ventricular tachycardia,	to 1	11.05.58	427.1		H7.2	11.05.06	Ventricular tachycardia,
Idiosyncratic infant ventricular tachycardia (oncogenic),	to 1	11.05.08	427.1		P291	11.05.06	Ventricular tachycardia,
Drug induced ventricular tachycardia,	to 985	11.05.15	427.1	995.2	I47.2	T 88.7	Ventricular tachycardia,
Scar mediated ventricular tachycardia,	to 880	11.05.45	427.1	997.1	H7.2	Y83.8	Ventricular tachycardia,
Ischaemia mediated ventricular tachycardia,	to 1	11.05.46	427.1		H7.2	11.05.06	Ventricular tachycardia,
Ventricular tachycardia following myocardial infarct,	to 1	11.05.65	427.1		H7.2	I23.8	Ventricular tachycardia,
Postprocedural ventricular tachycardia,	to 1	11.05.66	427.1		H7.2	I23.8	Ventricular tachycardia,
Tumour mediated ventricular tachycardia,	to 1	11.05.47	427.1		H7.2	11.05.06	Ventricular tachycardia,
Tumour mediated ventricular tachycardia: unifocal,	to 1	11.05.68	427.1		H7.2	11.05.06	Ventricular tachycardia,
Tumour mediated ventricular tachycardia: multifocal,	to 1	11.05.69	427.1		H7.2	11.05.06	Ventricular tachycardia,
Inflammation mediated ventricular tachycardia (myocarditis),	to 1	11.05.48	427.1		H7.2	11.05.06	Ventricular tachycardia,
Cardiomyopathy associated ventricular tachycardia,	to 655	11.05.49	427.1		H7.2	11.05.06	Ventricular tachycardia,
Ventricular tachycardia associated with electrolyte imbalance,	to 1935	11.05.59	427.1	277.9	H7.2	E88.9	Ventricular tachycardia,
Ventricular tachycardia associated with congenital heart disease,	to 5	11.05.60	427.1		H7.2	11.05.06	Ventricular tachycardia,
Ventricular tachycardia associated with sarcoidosis,	to 1	11.05.67	427.1	135	H7.2	DB6.0	Ventricular tachycardia,
Ventricular tachycardia associated with trauma,	to 1	11.05.71	427.1		H7.2	11.05.06	Ventricular tachycardia,
Ventricular tachycardia associated with mechanical irritation from device such as chest tube or vascular line,	to 1	11.05.80	427.1		H7.2	11.05.06	Ventricular tachycardia,
Ventricular tachycardia associated with mechanical prosthetic valve stimulation,	to 1	11.05.72	427.1		H7.2	11.05.06	Ventricular tachycardia,
Arrhythmogenic right ventricular cardiomyopathy,	to 972	07.01.10	425.4		H2.8	07.01.10	Arrhythmogenic right ventricular cardiomyopathy,

846 Premature ventricular beats (complexes-contractions)

Premature ventricular beats (complexes-contractions),	to 1	11.05.21	427.6		H9.3	11.05.21	Premature ventricular beats (complexes-contractions),
Premature ventricular beats (complexes-contractions) from right ventricle (LBBB pattern),	to 1	11.05.24	427.6		H9.3	11.05.21	Premature ventricular beats (complexes-contractions),
Premature ventricular beats (complexes-contractions) from left ventricle (RBBB pattern),	to 1	11.05.25	427.6		H9.3	11.05.21	Premature ventricular beats (complexes-contractions),
Monomorphic premature ventricular beats (complexes-contractions),	to 1	11.05.34	427.6		H9.3	11.05.21	Premature ventricular beats (complexes-contractions),
Polymorphic premature ventricular beats (complexes-contractions),	to 1	11.05.26	427.6		H9.3	11.05.21	Premature ventricular beats (complexes-contractions),
Premature ventricular beats (complexes-contractions) with bigeminy,	to 1	11.05.27	427.6		H9.3	11.05.21	Premature ventricular beats (complexes-contractions),
Premature ventricular beats (complexes-contractions) with trigeminy,	to 1	11.05.28	427.6		H9.3	11.05.21	Premature ventricular beats (complexes-contractions),
Premature ventricular beats (complexes-contractions) with couplets,	to 1	11.05.35	427.6		H9.3	11.05.21	Premature ventricular beats (complexes-contractions),
Premature ventricular beats (complexes-contractions) with fixed coupling interval,	to 1	11.05.29	427.6		H9.3	11.05.21	Premature ventricular beats (complexes-contractions),
Premature ventricular beats (complexes-contractions) with variable coupling interval,	to 1	11.05.30	427.6		H9.3	11.05.21	Premature ventricular beats (complexes-contractions),
Premature ventricular beats (complexes-contractions) with parasystole,	to 1	11.05.31	427.6		H9.3	11.05.21	Premature ventricular beats (complexes-contractions),
Premature ventricular beats (complexes-contractions) with interpolation,	to 1	11.05.32	427.6		H9.3	11.05.21	Premature ventricular beats (complexes-contractions),
Premature ventricular beats (complexes-contractions) with fusion (fusion beat),	to 1	11.05.33	427.6		H9.3	11.05.21	Premature ventricular beats (complexes-contractions),

End of branch

850 Sinus node dysfunction and conduction disturbances

Conduction disturbances	to 852	not relevant					
Sinus arrest-pause	to 851	not relevant					
Sinoatrial block,	to 856	11.06.01	426.6		H5.5	11.06.01	Sinoatrial block,
Sinus node dysfunction (including sick sinus),	to 856	11.02.03	427.8		H9.5	11.02.03	Sinus node dysfunction (including sick sinus),
Sinus node dysfunction: atrial standstill,	to 1	11.02.19	427.8		H9.5	11.02.03	Sinus node dysfunction (including sick sinus),
Sinus node dysfunction (including sick sinus): idiopathic,	to 856	11.02.22	427.8		H9.5	11.02.03	Sinus node dysfunction (including sick sinus),
Familial sinus node dysfunction,	to 1	11.02.14	427.8		H9.5	11.02.03	Sinus node dysfunction (including sick sinus),
Sinus node dysfunction (including sick sinus): acquired,	to 856	11.02.21	427.8		H9.5	11.02.03	Sinus node dysfunction (including sick sinus),
Sick sinus syndrome,	to 1	11.02.37	427.8		H9.5	11.02.03	Sinus node dysfunction (including sick sinus),
Sick sinus syndrome: idiopathic (primary),	to 1	11.02.38	427.8		H9.5	11.02.03	Sinus node dysfunction (including sick sinus),
Sick sinus syndrome: acquired,	to 1	11.02.39	427.8		H9.5	11.02.03	Sinus node dysfunction (including sick sinus),
Sinus bradycardia,	to 1	11.02.04	427.8		H9.8	11.02.04	Sinus bradycardia,
Vagal sinus bradycardia,	to 1	11.02.18	427.8		H9.8	11.02.04	Sinus bradycardia,
Vagal sinus bradycardia: bradycardia(s) of prematurity,	to 1	11.02.15	427.8		P29.1	11.02.15	Vagal sinus bradycardia: bradycardia(s) of prematurity,
Hypervagotonic sinus node dysfunction,	to 1	11.02.02	427.8		H9.5	11.02.03	Sinus node dysfunction (including sick sinus),
Sinoatrial exit block,	to 1	11.02.13	427.8		H5.5	11.02.03	Sinus node dysfunction (including sick sinus),
Bradycardia syndrome,	to 1	11.02.11	427.8		H9.5	11.02.03	Sinus node dysfunction (including sick sinus),
Postprocedural sinoatrial dysfunction,	to 1	11.02.06	997.1		H7.1	11.02.03	Sinus node dysfunction (including sick sinus),
Drug induced sinus node dysfunction,	to 985	11.02.16	995.2		T88.7	11.02.03	Sinus node dysfunction (including sick sinus),
Failure of heart rate to respond to stress (chronotropic incompetence),	to 1	11.02.20	427.8		H9.5	11.02.03	Sinus node dysfunction (including sick sinus),
Causes and genetics of arrhythmias - qualifiers	to 856	not relevant					

851 Sinus arrest-pause

Sinus arrest-pause,	to 1	11.02.05	426.6		H9.5	11.02.03	Sinus node dysfunction (including sick sinus),
Sinus arrest-pause without escape rhythm,	to 1	11.02.31	426.6		H9.5	11.02.03	Sinus node dysfunction (including sick sinus),
Sinus arrest-pause with atrial escape rhythm,	to 1	11.02.32	426.6		H9.5	11.02.03	Sinus node dysfunction (including sick sinus),
Sinus arrest-pause with junctional escape rhythm,	to 1	11.02.33	426.6		H9.5	11.02.03	Sinus node dysfunction (including sick sinus),
Sinus arrest-pause with ventricular escape rhythm,	to 1	11.02.34	426.6		H9.5	11.02.03	Sinus node dysfunction (including sick sinus),
Sinus arrest,	to 1	11.02.36	426.6		H9.5	11.02.03	Sinus node dysfunction (including sick sinus),

Conduction disturbances

Conduction disturbance,	to 856	11.06.00	426.9	H5.9	11.06.00	Conduction disturbance,
Atrioventricular block,	to 856	11.06.38	426.1	H4.3	11.06.00	Conduction disturbance,
Postprocedural atrioventricular block,	to 856	11.06.56	426.1	H4.3	11.06.00	Conduction disturbance,
1st degree atrioventricular block,	to 856	11.06.02	426.1	H4.0	11.06.02	1st degree atrioventricular block,
1st degree atrioventricular block: congenital,	to 856	11.06.46	426.1	H4.0	11.06.02	1st degree atrioventricular block,
1st degree atrioventricular block: acquired,	to 856	11.06.47	426.1	H4.0	11.06.02	1st degree atrioventricular block,
2nd degree atrioventricular block,	to 856	11.06.03	426.1	H4.1	11.06.03	2nd degree atrioventricular block,
2nd degree atrioventricular block: congenital,	to 856	11.06.52	426.1	H4.1	11.06.03	2nd degree atrioventricular block,
2nd degree atrioventricular block: acquired,	to 856	11.06.53	426.1	H4.1	11.06.03	2nd degree atrioventricular block,
Mobitz I 2nd degree atrioventricular block (Wenckebach),	to 856	11.06.04	426.1	H4.1	11.06.03	2nd degree atrioventricular block,
Mobitz I 2nd degree atrioventricular block (Wenckebach): congenital,	to 856	11.06.48	426.1	H4.1	11.06.03	2nd degree atrioventricular block,
Mobitz I 2nd degree atrioventricular block (Wenckebach): acquired,	to 856	11.06.49	426.1	H4.1	11.06.03	2nd degree atrioventricular block,
Mobitz II 2nd degree atrioventricular block,	to 856	11.06.05	426.1	H4.1	11.06.03	2nd degree atrioventricular block,
Mobitz II 2nd degree atrioventricular block: congenital,	to 856	11.06.50	426.1	H4.1	11.06.03	2nd degree atrioventricular block,
Mobitz II 2nd degree atrioventricular block: acquired,	to 856	11.06.51	426.1	H4.1	11.06.03	2nd degree atrioventricular block,
Advanced Mobitz II 2nd degree atrioventricular block,	to 856	11.06.06	426.1	H4.2	11.06.03	2nd degree atrioventricular block,
Atrioventricular dissociation,	to 856	11.06.11	426.8	H5.8	11.06.07	Complete atrioventricular block (3rd degree),
Atrioventricular dissociation: isorhythmic (same atrial & ventricular rates with no conduction),	to 856	11.06.57	426.8	H5.8	11.06.07	Complete atrioventricular block (3rd degree),
Atrioventricular dissociation: interference (same atrial & ventricular rates with occasional conduction),	to 856	11.06.58	426.8	H5.8	11.06.07	Complete atrioventricular block (3rd degree),
Atrioventricular block due to endocarditis,	to 856	11.06.36	426.9	H5.9	E3.0	Conduction disturbance,
Progressive sclerodegenerative cardiac conduction defect (Lenegre),	to 856	11.06.55	426.9	H5.9	11.06.00	Conduction disturbance,
Bundle branch block	to 853	not relevant				
Complete atrioventricular block	to 855	not relevant				
Arrhythmia ablation procedure related atrioventricular block	to 925	not relevant				

853 Bundle branch block

Bundle branch block,	to 856	11.06.29	426.5	H5.4	11.06.00	Conduction disturbance,
Complete right bundle branch block,	to 856	11.06.23	426.4	H5.1	11.06.23	Complete right bundle branch block,
Familial isolated right bundle branch block,	to 1	11.06.31	426.4	H5.1	11.06.23	Complete right bundle branch block,
Partial right bundle branch block,	to 856	11.06.30	426.4	H5.0	11.06.00	Conduction disturbance,
Complete left bundle branch block,	to 856	11.06.24	426.3	H4.7	11.06.24	Complete left bundle branch block,
Left anterior fascicular hemiblock,	to 856	11.06.27	426.2	H4.4	11.06.00	Conduction disturbance,
Left posterior fascicular hemiblock,	to 856	11.06.28	426.2	H4.5	11.06.00	Conduction disturbance,
Bundle branch block: indeterminate,	to 856	11.06.39	426.5	H5.4	11.06.00	Conduction disturbance,
Bundle branch block: bifascicular (left anterior + posterior),	to 856	11.06.45	426.5	H5.3	11.06.00	Conduction disturbance,
Bundle branch block: trifascicular,	to 856	11.06.40	426.5	H5.3	11.06.00	Conduction disturbance,
Bundle branch block: unifascicular,	to 856	11.06.54	426.5	H5.3	11.06.00	Conduction disturbance,
Intraventricular conduction delay,	to 856	11.06.41	426.5	H5.4	11.06.00	Conduction disturbance,
Intraventricular conduction delay: left,	to 856	11.06.42	426.5	H5.4	11.06.00	Conduction disturbance,
Intraventricular conduction delay: right,	to 856	11.06.43	426.5	H5.4	11.06.00	Conduction disturbance,
Intraventricular conduction delay: indeterminate,	to 856	11.06.44	426.5	H5.4	11.06.00	Conduction disturbance,

855 Complete atrioventricular block

Complete atrioventricular block (3rd degree),	to 1	11.06.07	426	H4.2	11.06.07	Complete atrioventricular block (3rd degree),	
Congenital complete heart block,	to 1	11.06.16	746.8	Q24.6	11.06.16	Congenital complete heart block,	
Congenital idiopathic complete atrioventricular block,	to 1	11.06.08	746.8	Q24.6	11.06.16	Congenital complete heart block,	
Congenital complete atrioventricular block & maternal connective tissue or autoimmune disease,	to 1	11.06.13	746.8	Q24.6	11.06.16	Congenital complete heart block,	
Congenital complete atrioventricular block with structural heart disease,	to 1	11.06.14	746.8	Q24.6	11.06.16	Congenital complete heart block,	
Acquired complete atrioventricular block,	to 1	11.06.10	426	H4.2	11.06.10	Acquired complete atrioventricular block,	
Acquired complete atrioventricular block due to myocarditis,	to 1	11.06.37	426	H4.2	11.06.10	Acquired complete atrioventricular block,	
Preprocedural complete atrioventricular block,	to 1	11.06.35	426	H4.2	11.06.35	Preprocedural complete atrioventricular block,	
Postprocedural complete atrioventricular block,	to 1	11.06.17	426	997.1	H4.2	Y83.8	Postprocedural complete atrioventricular block,
Postprocedural complete atrioventricular block - transient,	to 1	11.06.09	426	997.1	H4.2	Y83.8	Postprocedural complete atrioventricular block,
Postprocedural complete atrioventricular block - sustained,	to 1	11.06.15	426	997.1	H4.2	Y83.8	Postprocedural complete atrioventricular block,
Procedure related complete atrioventricular block requiring temporary pacing,	to 1	11.06.32	426	997.1	H4.2	Y83.8	Procedure related complete atrioventricular block requiring temporary pacing,
Procedure related complete atrioventricular block requiring permanent pacemaker system,	to 1	11.06.33	426	997.1	H4.2	Y83.8	Procedure related complete atrioventricular block requiring permanent pacemaker system,
Arrhythmia ablation procedure related atrioventricular block	to 925	not relevant					

856 @ Causes and genetics of arrhythmias - qualifiers

- idiopathic,	to 886	Q1.96.04				not relevant
- congenital,	to 886	Q1.90.60				not relevant
- acquired,	to 886	Q1.90.62				not relevant
- postprocedural,	to 886	Q1.90.64				not relevant
- due to myocardial incision,	to 886	Q1.52.72				not relevant
- status: post arrhythmia ablation procedure,	to 886	Q1.91.59				not relevant
- status: post arrhythmia ablation procedure: transcatheter,	to 886	Q1.92.22				not relevant
- status: post arrhythmia ablation procedure: transcatheter radiofrequency,	to 886	Q1.92.24				not relevant
- status: post arrhythmia ablation procedure: open surgical,	to 886	Q1.92.23				not relevant
- due to myocarditis,	to 886	Q1.00.81				not relevant
- due to endovascular vegetation,	to 886	Q1.92.05				not relevant
- drug induced,	to 985	Q1.00.37	995.2		T88.7	not relevant
- arrhythmia induced,	to 886	Q1.52.57				not relevant
- due to electrolyte imbalance,	to 1935	Q1.52.58	277.9		E88.9	not relevant
- due to endocrine disturbance,	to 886	Q1.52.70				not relevant
- associated with maternal autoimmune disease,	to 886	Q1.52.68				not relevant
- associated with maternal systemic lupus erythematosus,	to 886	Q1.52.69				not relevant
- due to hypothyroidism,	to 886	Q1.52.59	244.9		E03.9	not relevant
- due to hypothermia,	to 886	Q1.52.61				not relevant
- traumatic,	to 886	Q1.34.80				not relevant
- mechanical,	to 886	Q5.65.07				not relevant
- associated with late age of congenital heart disease repair,	to 886	Q1.52.62				not relevant
- associated with haemodynamic abnormality,	to 886	Q1.52.63				not relevant
- associated with haemodynamic abnormality: ventricular dysfunction,	to 886	Q1.52.64				not relevant
- associated with haemodynamic abnormality: pulmonary regurgitation,	to 886	Q1.52.65				not relevant
- associated with haemodynamic abnormality: aortic stenosis,	to 886	Q1.52.66				not relevant
- associated with channelopathy and/or gene mutation,	to 857	Q1.52.73				not relevant
Genetic profile of arrhythmia	to 857	not relevant				
no entry	to 886	not relevant				

857 @ Genetic profile of arrhythmia

- due to genetic mutation,	to 886	Q1.52.71				not relevant
- sporadic,	to 886	Q1.52.60				not relevant
- autosomal dominant,	to 886	Q1.52.50				not relevant
- autosomal recessive,	to 886	Q1.52.51				not relevant
- X-linked recessive,	to 886	Q1.52.52				not relevant
- familial,	to 886	Q1.52.53				not relevant
- digenic inheritance,	to 886	Q1.52.76				not relevant
- gene carrier,	to 886	Q1.52.67				not relevant
- subclinical gene carrier,	to 886	Q1.52.54				not relevant
- inducible gene carrier,	to 886	Q1.52.55				not relevant
- symptomatic gene carrier,	to 886	Q1.52.56				not relevant
- genetic propensity	to 886	Q1.52.74				not relevant
- ruled out by genetic analysis,	to 500	Q1.52.75				not relevant
no entry	to 886	not relevant				

_____ End of branch _____

860 Ion channelopathies and QT syndromes (includes gene disorders)

Ion channelopathy,	to 1	11.12.00	426.9	H5.8	11.12.00	Ion channelopathy,
Prolonged QT interval,	to 856	11.12.01	426.9	H5.8	11.12.01	Prolonged QT interval,
Long QT syndrome,	to 861	11.12.29	426.9	H5.8	11.12.29	Long QT syndrome,
Romano-Ward syndrome,	to 861	14.02.23	426.9	H5.8	11.12.29	Long QT syndrome,
Jervell and Lange-Nielsen syndrome,	to 861	14.02.14	426.9	H5.8	11.12.29	Long QT syndrome,
Long QT syndrome with genetic marker,	to 861	14.01.23	426.9	H5.9	11.12.29	Long QT syndrome,
Long QT syndrome without known genetic marker,	to 861	11.05.74	426.9	H5.8	11.12.29	Long QT syndrome,
Acquired long QT interval,	to 856	11.12.02	426.9	H5.8	11.12.01	Prolonged QT interval,
Brugada syndrome (ventricular tachycardia with anterior raised ST),	to 856	11.05.44	427.1	H7.2	11.05.44	Brugada syndrome (ventricular tachycardia with anterior raised ST),
Brugada syndrome (ventricular tachycardia with anterior raised ST): SCN5A gene (sodium channel),	to 856	11.05.52	427.1	H7.2	11.05.44	Brugada syndrome (ventricular tachycardia with anterior raised ST),
Brugada syndrome (ventricular tachycardia with anterior raised ST) without known genetic marker,	to 856	11.05.73	427.1	H7.2	11.05.44	Brugada syndrome (ventricular tachycardia with anterior raised ST),
Early repolarisation syndrome,	to 856	11.05.82	426.9	H5.8	11.12.00	Ion channelopathy,
Catecholaminergic polymorphic ventricular tachycardia,	to 1	11.05.17	427.1	H7.2	11.05.17	Catecholaminergic polymorphic ventricular tachycardia,
Catecholaminergic polymorphic ventricular tachycardia: autosomal dominant (RyR2),	to 1	11.05.53	427.1	H7.2	11.05.17	Catecholaminergic polymorphic ventricular tachycardia,
Catecholaminergic polymorphic ventricular tachycardia: autosomal recessive (CASQ2),	to 1	11.05.54	427.1	H7.2	11.05.17	Catecholaminergic polymorphic ventricular tachycardia,
Short QT syndrome,	to 856	11.12.05	426.9	H5.8	11.12.00	Ion channelopathy,
Idiopathic ventricular fibrillation,	to 856	11.05.55	426.9	H5.8	11.05.10	Ventricular fibrillation,

861 Genetic types with physiological substrates for Long QT syndrome

Long QT syndrome: type 1 (KvLQT1 gene (heterozygote) - potassium channel),	to 856	11.12.21	426.9	H5.8	11.12.29	Long QT syndrome,
Jervell and Lange-Nielsen syndrome: JLN1 (KvLQT1 gene (homozygote) - potassium channel),	to 856	11.12.28	426.9	H5.8	11.12.29	Long QT syndrome,
Long QT syndrome: type 2 (HERG gene - potassium channel),	to 856	11.12.22	426.9	H5.8	11.12.29	Long QT syndrome,
Long QT syndrome: type 3 (SCN5A gene - sodium channel),	to 856	11.12.23	426.9	H5.8	11.12.29	Long QT syndrome,
Long QT syndrome: type 4 (Ankyrin B),	to 856	11.12.34	426.9	H5.8	11.12.29	Long QT syndrome,
Long QT syndrome: type 5 (MinK - KCNE1 gene (heterozygote) - co-assembler LQT1),	to 856	11.12.24	426.9	H5.8	11.12.29	Long QT syndrome,

Jervell and Lange-Nielsen syndrome: JLN2 (MiRK - KCNE1 gene (homozygote) - coassembler LQT1),	to 856	11.12.30	426.9	M5.8	11.12.29	Long QT syndrome,
Long QT syndrome: type 6 (KCNF1 gene - coassembler LQT2),	to 856	11.12.25	426.9	M5.8	11.12.29	Long QT syndrome,
Long QT syndrome: type 7 (Anderson-Tawil syndrome): KCNA2 gene (potassium channel),	to 856	11.12.26	426.9	M5.8	11.12.29	Long QT syndrome,
Long QT syndrome: type 8 (Timothy syndrome: syndactyly + small teeth): CACNA1C gene (calcium channel),	to 856	11.12.27	426.9	M5.8	11.12.29	Long QT syndrome,
Long QT syndrome: type 9 (Caveolin3 protein - increased late sodium current),	to 856	11.12.32	426.9	M5.8	11.12.29	Long QT syndrome,
Long QT syndrome: type 10 (SCN4B gene - sodium channel),	to 856	11.12.33	426.9	M5.8	11.12.29	Long QT syndrome,
Long QT syndrome: type 11 (A-kinase anchor protein 9 gene),	to 856	11.12.35	426.9	M5.8	11.12.29	Long QT syndrome,
Long QT syndrome: type 12 (SNTA-1 gene - Alpha-1-syntrophin),	to 856	11.12.36	426.9	M5.8	11.12.29	Long QT syndrome,
Long QT syndrome: type 13 (GIRK4 KCN5 gene - potassium channel),	to 856	11.12.37	426.9	M5.8	11.12.29	Long QT syndrome,
Long QT syndrome: type unknown,	to 856	11.12.31	426.9	M5.8	11.12.29	Long QT syndrome,

End of branch

870 Miscellaneous rhythm and conduction abnormalities

Rhythm or conduction disturbance due to drug intoxication	to 875	not relevant				
Electrolyte abnormality causing rhythm or conduction disturbance,	to 1935	11.10.01	276.9	E87.8	11.06.00	Conduction disturbance,

875 Rhythm or conduction disturbance due to drug intoxication

Rhythm or conduction disturbance due to digalilis,	to 1	11.09.01	E942.1	Y52.0	11.06.00	Conduction disturbance,
Rhythm or conduction disturbance due to drug intoxication,	to 985	11.09.03	995.2	T88.7	11.06.00	Conduction disturbance,
Drug induced sinus node dysfunction,	to 985	11.02.16	995.2	T88.7	11.02.03	Sinus node dysfunction (including sick sinus),
Drug induced ventricular tachycardia,	to 985	11.05.15	995.2	T88.7	11.05.06	Ventricular tachycardia,

End of branch

880 @ Anatomical location of arrhythmogenic focus or accessory pathways - qualifiers

Accessory atrioventricular pathways	to 885	not relevant				
- arrhythmogenic focus,	to 1	Q1.35.70				not relevant
- multiple arrhythmogenic foci,	to 881	Q1.36.01				not relevant
Atrial arrhythmogenic focus or substrate	to 881	not relevant				
Pulmonary vein locality arrhythmogenic focus or substrate	to 882	not relevant				
Ventricular arrhythmogenic focus or substrate	to 883	not relevant				
- arrhythmogenic focus around area of functional block,	to 1	Q1.35.05				not relevant
- arrhythmogenic focus at site of previous ablation gap,	to 1	Q1.35.06				not relevant
- arrhythmogenic focus at site of complex fractionated electrical activity,	to 1	Q1.35.11				not relevant
- arrhythmogenic focus for atrioventricular nodal reentry tachycardia,	to 1	Q1.35.14				not relevant
- arrhythmogenic focus for atrioventricular nodal reentry tachycardia: slow pathway,	to 1	Q1.35.15				not relevant
- arrhythmogenic focus for atrioventricular nodal reentry tachycardia: fast pathway,	to 1	Q1.35.16				not relevant
- arrhythmogenic focus for atrioventricular nodal reentry tachycardia: around coronary sinus,	to 1	Q1.35.17				not relevant

881 @ Atrial arrhythmogenic focus or substrate

- atrial arrhythmogenic focus,	to 1	Q1.36.10				not relevant
- atrial arrhythmogenic focus: cavotricuspid isthmus,	to 1	Q1.35.00				not relevant
- atrial arrhythmogenic focus: right atrium,	to 1	Q1.35.71				not relevant
- arrhythmogenic focus: right atrial terminal crest,	to 1	Q1.35.07				not relevant
- atrial arrhythmogenic focus: right atrial free wall,	to 1	Q1.35.75				not relevant
- atrial arrhythmogenic focus: right atrial posterior wall,	to 1	Q1.35.57				not relevant
- atrial arrhythmogenic focus: right atrial anterior wall,	to 1	Q1.35.58				not relevant
- atrial arrhythmogenic focus: right atrial septal wall,	to 1	Q1.35.59				not relevant
- atrial arrhythmogenic focus: right atrial appendage,	to 1	Q1.35.73				not relevant
- atrial arrhythmogenic focus: left atrium,	to 1	Q1.35.72				not relevant
- atrial arrhythmogenic focus: left atrial free wall,	to 1	Q1.35.76				not relevant
- atrial arrhythmogenic focus: left atrial appendage,	to 1	Q1.35.82				not relevant
- atrial arrhythmogenic focus: roof of left atrial wall (superior),	to 1	Q1.36.50				not relevant
- atrial arrhythmogenic focus: left atrial posterior wall,	to 1	Q1.36.51				not relevant
- atrial arrhythmogenic focus: left atrial anterior wall,	to 1	Q1.36.52				not relevant
- atrial arrhythmogenic focus: left atrial lateral wall,	to 1	Q1.36.53				not relevant
- atrial arrhythmogenic focus: left atrial inferior wall,	to 1	Q1.36.60				not relevant
- atrial arrhythmogenic focus: left atrial septal wall,	to 1	Q1.36.54				not relevant
- atrial arrhythmogenic focus: superior caval vein/ atrial junction,	to 1	Q1.35.84				not relevant
- atrial arrhythmogenic focus: inferior caval vein/ atrial junction,	to 1	Q1.35.85				not relevant
- atrial arrhythmogenic focus: supraventricular crest (anteroseptal) (antriludinally superoparaseptal),	to 1	Q1.35.77				not relevant
- atrial arrhythmogenic focus: floor of coronary sinus (posteroseptal) (antriludinally inferoparaseptal),	to 1	Q1.35.78				not relevant
- atrial arrhythmogenic focus: at coronary sinus orifice,	to 1	Q1.35.08				not relevant
- atrial arrhythmogenic focus: inside coronary sinus,	to 1	Q1.36.29				not relevant
- atrial arrhythmogenic focus: in coronary sinus diverticulum,	to 1	Q1.35.89				not relevant
- arrhythmogenic focus in atrioventricular node/His junction,	to 1	Q1.35.74				not relevant
- arrhythmogenic focus at site of previous atrial ablation gap,	to 1	Q1.35.10				not relevant
- atrial arrhythmogenic focus: reentry circuit,	to 1	Q1.36.61				not relevant
- atrial arrhythmogenic focus: reentry circuit around margins of oval fossa,	to 1	Q1.36.30				not relevant
- atrial arrhythmogenic focus: reentry circuit around tricuspid valve annulus,	to 1	Q1.35.01				not relevant
- atrial arrhythmogenic focus: reentry circuit around mitral valve annulus,	to 1	Q1.35.02				not relevant
- atrial arrhythmogenic focus: reentry circuit around anastomosis,	to 1	Q1.36.62				not relevant
- atrial arrhythmogenic focus: reentry circuit around anatomical obstacle,	to 1	Q1.36.63				not relevant
- atrial arrhythmogenic focus: reentry circuit around superior caval vein (SVC),	to 1	Q1.36.64				not relevant
- atrial arrhythmogenic focus: reentry circuit around inferior caval vein (IVC),	to 1	Q1.36.65				not relevant
- atrial arrhythmogenic focus: reentry circuit around atrial septal defect patch,	to 1	Q1.35.03				not relevant
- atrial arrhythmogenic focus: reentry circuit around atrial septal defect implanted closure device,	to 1	Q1.36.71				not relevant
- atrial arrhythmogenic focus: reentry circuit around atriotomy site,	to 1	Q1.35.04				not relevant
- atrial arrhythmogenic focus: reentry circuit around cannulation site scar,	to 1	Q1.35.12				not relevant
- atrial arrhythmogenic focus: reentry circuit around atrial baffle patch,	to 1	Q1.35.13				not relevant
- arrhythmogenic focus: reentry circuit around area of atrial functional block,	to 1	Q1.35.09				not relevant
Pulmonary vein locality arrhythmogenic focus or substrate	to 882	not relevant				
no entry	to 1	not relevant				

882 @ Pulmonary vein locality arrhythmogenic focus or substrate

- atrial arrhythmogenic focus: pulmonary vein(s),	to 1	Q1.35.83				not relevant
- atrial arrhythmogenic focus: around right upper pulmonary vein,	to 1	Q1.36.21				not relevant
- atrial arrhythmogenic focus: around right lower pulmonary vein,	to 1	Q1.36.22				not relevant
- atrial arrhythmogenic focus: around right common pulmonary vein,	to 1	Q1.36.25				not relevant
- atrial arrhythmogenic focus: around left upper pulmonary vein,	to 1	Q1.36.23				not relevant
- atrial arrhythmogenic focus: around left lower pulmonary vein,	to 1	Q1.36.24				not relevant
- atrial arrhythmogenic focus: around left common pulmonary vein,	to 1	Q1.36.26				not relevant
- atrial arrhythmogenic focus: within pulmonary vein(s),	to 1	Q1.36.20				not relevant
- atrial arrhythmogenic focus: within right upper pulmonary vein,	to 1	Q1.36.67				not relevant
- atrial arrhythmogenic focus: within right lower pulmonary vein,	to 1	Q1.36.68				not relevant
- atrial arrhythmogenic focus: within right common pulmonary vein,	to 1	Q1.36.27				not relevant
- atrial arrhythmogenic focus: within left upper pulmonary vein,	to 1	Q1.36.69				not relevant
- atrial arrhythmogenic focus: within left lower pulmonary vein,	to 1	Q1.36.70				not relevant
- atrial arrhythmogenic focus: within left common pulmonary vein,	to 1	Q1.36.28				not relevant
no entry	to 1	not relevant				

883 @ Ventricular arrhythmogenic focus or substrate - qualifiers

- ventricular arrhythmogenic focus,	to 1	Q1.35.79				not relevant
- ventricular arrhythmogenic focus: right ventricle,	to 1	Q1.36.55				not relevant
- ventricular arrhythmogenic focus: right ventricular outflow tract,	to 1	Q1.35.80				not relevant
- ventricular arrhythmogenic focus: right ventricular anterior free wall,	to 884	Q1.35.30				not relevant
- ventricular arrhythmogenic focus: right ventricular lateral free wall,	to 884	Q1.35.31				not relevant
- ventricular arrhythmogenic focus: right ventricular (antriludinally inferior) posterior free wall,	to 884	Q1.35.32				not relevant
- ventricular arrhythmogenic focus: right ventricular true apex,	to 1	Q1.35.33				not relevant
- ventricular arrhythmogenic focus: right ventricular septum,	to 884	Q1.35.34				not relevant
- ventricular arrhythmogenic focus: right ventricular epicardium,	to 1	Q1.35.35				not relevant
- ventricular arrhythmogenic focus: left ventricle,	to 1	Q1.36.56				not relevant
- ventricular arrhythmogenic focus: left ventricular outflow tract,	to 1	Q1.35.36				not relevant
- ventricular arrhythmogenic focus: left ventricular anterior free wall,	to 884	Q1.35.37				not relevant
- ventricular arrhythmogenic focus: left ventricular lateral free wall,	to 884	Q1.35.38				not relevant
- ventricular arrhythmogenic focus: left ventricular posterior (antriludinally inferior) free wall,	to 884	Q1.35.39				not relevant
- ventricular arrhythmogenic focus: left ventricular true apex,	to 1	Q1.35.40				not relevant
- ventricular arrhythmogenic focus: left ventricular septum,	to 884	Q1.35.41				not relevant
- ventricular arrhythmogenic focus: left ventricular epicardium,	to 1	Q1.35.42				not relevant
- ventricular arrhythmogenic focus: septal,	to 1	Q1.36.43				not relevant
- arrhythmogenic focus: reentry circuit around ventricular septal defect patch,	to 1	Q1.35.43				not relevant
- arrhythmogenic focus: reentry circuit around right ventricular outflow tract patch,	to 1	Q1.35.44				not relevant
- arrhythmogenic focus: reentry circuit around ventriculotomy site,	to 1	Q1.35.45				not relevant
- arrhythmogenic focus: reentry circuit around ventricular scar,	to 1	Q1.36.57				not relevant
- arrhythmogenic focus: reentry circuit around area of ventricular functional block,	to 1	Q1.35.46				not relevant
- arrhythmogenic focus at site of previous ventricular ablation gap,	to 1	Q1.35.47				not relevant
- ventricular arrhythmogenic focus: around tricuspid valve annulus,	to 1	Q1.35.55				not relevant
- ventricular arrhythmogenic focus: around mitral valve annulus,	to 1	Q1.35.56				not relevant
no entry	to 1	not relevant				

884 @ Ventricular arrhythmogenic focus or substrate - segmental qualifiers

- basal,	to 1	Q1.35.48				not relevant
- mid,	to 1	Q1.35.49				not relevant
- apical,	to 1	Q1.35.50				not relevant

no entry

885 @ Anatomical location of accessory atrioventricular pathways - qualifiers

Table with 4 columns: description, code, QID, and relevance. Lists various anatomical locations of accessory atrioventricular pathways.

886 @ Mechanisms and nature of arrhythmias - qualifiers

Table with 4 columns: description, code, QID, and relevance. Lists various mechanisms and natures of arrhythmias.

End of branch

890 Morphological variants of conduction system

Table with 6 columns: description, code, QID, relevance, QID, and relevance. Lists morphological variants of the conduction system.

891 Sinoatrial node morphological variants

Table with 6 columns: description, code, QID, relevance, QID, and relevance. Lists sinoatrial node morphological variants.

892 Atrioventricular node morphological variants

Table with 6 columns: description, code, QID, relevance, QID, and relevance. Lists atrioventricular node morphological variants.

893 Atrioventricular bundle morphological variants

Table with 6 columns: description, code, QID, relevance, QID, and relevance. Lists atrioventricular bundle morphological variants.

End of branch

900 Pacemaker, Implantable cardioverter & defibrillator (ICD) and arrhythmia related devices dysfunction and complications

Table with 6 columns: description, code, QID, relevance, QID, and relevance. Lists various complications and dysfunctions related to pacemakers and ICDs.

901 Pacemaker-implantable cardioverter & defibrillator (ICD) generator complications

Table with 6 columns: description, code, QID, relevance, QID, and relevance. Lists generator complications for pacemaker-implantable cardioverter & defibrillator (ICD).

Pacemaker-Implantable cardioverter & defibrillator (ICD) generator component failure,	to 916	11.11.13	996.0	T82.1	11.11.01	Pacemaker dysfunction-complication,		
Pacemaker-Implantable cardioverter & defibrillator (ICD) generator failure due to elevated threshold,	to 916	11.11.15	996.0	T82.1	11.11.17	Pacemaker-implantable cardioverter & defibrillator (ICD) loss of capture,		
Pacemaker-Implantable cardioverter & defibrillator (ICD) generator failure: undersensing,	to 916	11.11.28	996.0	T82.1	11.11.01	Pacemaker dysfunction-complication,		
Pacemaker-Implantable cardioverter & defibrillator (ICD) generator failure: oversensing skeletal myopotentials,	to 916	11.11.39	996.0	T82.1	11.11.01	Pacemaker dysfunction-complication,		
Pacemaker-Implantable cardioverter & defibrillator (ICD) generator failure: no output,	to 916	11.11.70	996.0	T82.1	11.11.01	Pacemaker dysfunction-complication,		
Pacemaker-Implantable cardioverter & defibrillator (ICD) generator failure: slow pacing rate,	to 916	11.11.71	996.0	T82.1	11.11.01	Pacemaker dysfunction-complication,		
Pacemaker-Implantable cardioverter & defibrillator (ICD) generator connector fault,	to 916	11.11.72	996.0	T82.1	11.11.01	Pacemaker dysfunction-complication,		
Pacemaker-Implantable cardioverter & defibrillator (ICD) generator encapsulation failure,	to 916	11.11.73	996.0	T82.1	11.11.01	Pacemaker dysfunction-complication,		
Pacemaker-Implantable cardioverter & defibrillator (ICD) generator programming failure,	to 916	11.11.19	996.0	T82.1	11.11.01	Pacemaker dysfunction-complication,		
Pacemaker-Implantable cardioverter & defibrillator (ICD) generator failure due to sticky magnetic reed switch,	to 916	11.11.20	996	T82.1	11.11.01	Pacemaker dysfunction-complication,		
Pacemaker-Implantable cardioverter & defibrillator (ICD) generator recall by manufacturer,	to 916	11.11.27	996.0	T82.1	11.11.01	Pacemaker dysfunction-complication,		
Twiddlers syndrome (generator manipulation by patient),	to 916	11.11.25	996.0	T82.1	11.11.01	Pacemaker dysfunction-complication,		
Cross talk (self inhibition) in dual chamber pacemaker,	to 916	11.11.23	996.0	T82.1	11.11.01	Pacemaker dysfunction-complication,		
902 Local complications at pacemaker-implantable cardioverter & defibrillator (ICD) generator site								
Pacemaker-Implantable cardioverter & defibrillator (ICD) generator site (pocket) local complication,	to 916	11.11.59	996.0	T82.9	11.11.59	Pacemaker generator site local complication,		
Infection of pacemaker-Implantable cardioverter & defibrillator (ICD) generator site (pocket),	to 627	11.11.51	996.6	T82.7	11.11.59	Pacemaker generator site local complication,		
Haematoma at pacemaker-Implantable cardioverter & defibrillator (ICD) generator site (pocket),	to 916	11.11.52	996.7	T82.8	11.11.59	Pacemaker generator site local complication,		
Seroma at pacemaker-Implantable cardioverter & defibrillator (ICD) generator site (pocket),	to 916	11.12.53	996.7	T82.8	11.11.59	Pacemaker generator site local complication,		
Fluid collection at pacemaker-Implantable cardioverter & defibrillator (ICD) generator site (pocket),	to 916	11.12.54	996.7	T82.8	11.11.59	Pacemaker generator site local complication,		
Pacemaker-Implantable cardioverter & defibrillator (ICD) generator dislodgment,	to 916	11.11.83	996.6	T82.7	11.11.59	Pacemaker generator site local complication,		
Pacemaker-Implantable cardioverter & defibrillator (ICD) generator migration,	to 916	11.11.86	996.6	T82.7	11.11.59	Pacemaker generator site local complication,		
Pacemaker-Implantable cardioverter & defibrillator (ICD) generator misplacement,	to 916	11.11.87	996.6	T82.7	11.11.59	Pacemaker generator site local complication,		
Erosion due to pacemaker-Implantable cardioverter & defibrillator (ICD) generator,	to 916	11.11.84	996.6	T82.7	11.11.59	Pacemaker generator site local complication,		
Cardiac erosion due to pacemaker-Implantable cardioverter & defibrillator (ICD) generator,	to 916	11.11.56	996.6	T82.7	11.11.59	Pacemaker generator site local complication,		
Cardiac perforation due to erosion by pacemaker-Implantable cardioverter & defibrillator (ICD) generator,	to 916	11.11.57	996.6	T82.7	11.11.59	Pacemaker generator site local complication,		
Skin erosion at pacemaker-Implantable cardioverter & defibrillator (ICD) generator site,	to 2900	11.11.53	996.6	T82.7	11.11.59	Pacemaker generator site local complication,		
Pacemaker-Implantable cardioverter & defibrillator (ICD) generator site local complication: pain at generator site,	to 916	11.11.85	996.0	T82.9	11.11.59	Pacemaker generator site local complication,		
Pacemaker-Implantable cardioverter & defibrillator (ICD) generator site local complication: wound pain necessitating explant,	to 916	11.11.55	996.0	T82.9	11.11.59	Pacemaker generator site local complication,		
Pacemaker-Implantable cardioverter & defibrillator (ICD) generator site local complication: nerve compression,	to 916	11.11.58	996.0	353.0	T82.9	G54.0	11.11.59	Pacemaker generator site local complication,
Pacemaker-Implantable cardioverter & defibrillator (ICD) generator site local complication: brachial plexus compression,	to 916	11.11.54	996.0	353.0	T82.9	G54.0	11.11.59	Pacemaker generator site local complication,
Pacemaker-Implantable cardioverter & defibrillator (ICD) generator site local complication: venous compression,	to 916	11.11.88	996.0	T82.9	11.11.59	Pacemaker generator site local complication,		
Pacemaker-Implantable cardioverter & defibrillator (ICD) generator site local complication: compromised venous return,	to 916	11.11.89	996.0	T82.9	11.11.59	Pacemaker generator site local complication,		
905 Pacemaker / implantable cardioverter & defibrillator (ICD) lead dysfunction and complications								
Pacemaker lead dysfunction-complication,	to 916	11.11.40	996.0	T82.1	11.11.40	Pacemaker lead dysfunction-complication,		
Pacemaker-Implantable cardioverter & defibrillator (ICD) lead local and infection related complications	to 906	not relevant						
Pacemaker lead complication,	to 916	11.11.49	996.0	T82.1	11.11.40	Pacemaker lead dysfunction-complication,		
Pacemaker lead break,	to 916	11.11.05	996.0	T82.1	11.11.40	Pacemaker lead dysfunction-complication,		
Pacemaker lead inner coil (conductor) break,	to 916	11.11.93	996.0	T82.1	11.11.40	Pacemaker lead dysfunction-complication,		
Intermittent pacemaker lead break,	to 916	11.11.41	996.0	T82.1	11.11.40	Pacemaker lead dysfunction-complication,		
Pacemaker lead insulation failure (break),	to 916	11.11.06	996.0	T82.1	11.11.40	Pacemaker lead dysfunction-complication,		
Pacemaker lead malfunction,	to 916	11.12.40	996.0	T82.1	11.11.40	Pacemaker lead dysfunction-complication,		
Pacemaker lead failure to capture,	to 916	11.12.42	996.0	T82.1	11.11.40	Pacemaker lead dysfunction-complication,		
Pacemaker lead malposition,	to 916	11.11.14	996.0	T82.1	11.11.40	Pacemaker lead dysfunction-complication,		
Pacemaker lead displacement,	to 916	11.11.42	996.0	T82.1	11.11.40	Pacemaker lead dysfunction-complication,		
Pacemaker lead loop migration,	to 916	11.11.94	996.0	T82.1	11.11.40	Pacemaker lead dysfunction-complication,		
Pacemaker lead adhesion to adjacent cardiovascular structure,	to 916	11.11.95	996.0	T82.1	11.11.40	Pacemaker lead dysfunction-complication,		
Short circuit of pacemaker lead,	to 916	11.11.44	996.0	T82.1	11.11.40	Pacemaker lead dysfunction-complication,		
Pacemaker lead connector fault,	to 916	11.11.08	996.0	T82.1	11.11.40	Pacemaker lead dysfunction-complication,		
Pacemaker lead undersensing,	to 916	11.11.09	996.0	T82.1	11.11.40	Pacemaker lead dysfunction-complication,		
Pacemaker lead oversensing (including extracardiac inhibition),	to 916	11.11.11	996.0	T82.1	11.11.40	Pacemaker lead dysfunction-complication,		
Pacemaker lead exit block (inapparent displacement & perforation),	to 916	11.11.12	996.0	T82.1	11.11.40	Pacemaker lead dysfunction-complication,		
Elevated pacemaker lead threshold,	to 916	11.11.47	996.0	T82.8	11.11.40	Pacemaker lead dysfunction-complication,		
High defibrillator lead threshold,	to 916	11.11.92	996.0	T82.8	11.11.40	Pacemaker lead dysfunction-complication,		
Tricuspid regurgitation due to pacemaker lead,	to 2800	15.11.10	424.2	E878.8	B6.1	Y83.8	15.11.00	Postprocedural tricuspid valvar complication,
Pacemaker lead complication causing death,	to 1	11.11.90	996.0	T82.1	11.11.40	Pacemaker lead dysfunction-complication,		
Pacemaker lead recall by manufacturer,	to 916	11.12.41	996.0	T82.1	11.11.01	Pacemaker dysfunction-complication,		
Venous complications	to 2020	not relevant						
906 Pacemaker-Implantable cardioverter & defibrillator (ICD) lead local and infection related complications								
Pacemaker lead erosion,	to 916	11.11.96	996.0	T82.1	11.11.40	Pacemaker lead dysfunction-complication,		
Pacemaker lead induced cardiac erosion,	to 916	11.11.97	996.0	T82.1	11.11.40	Pacemaker lead dysfunction-complication,		
Pacemaker lead induced cardiac perforation,	to 916	11.11.43	996.0	T82.1	11.11.40	Pacemaker lead dysfunction-complication,		
Pacemaker lead skin erosion,	to 2900	11.11.98	996.0	T82.1	11.11.40	Pacemaker lead dysfunction-complication,		
Pacemaker lead infection,	to 916	11.11.99	996.0	T82.9	11.11.40	Pacemaker lead dysfunction-complication,		
Pacemaker lead induced infective endocarditis,	to 916	11.11.48	996.0	T82.9	11.11.40	Pacemaker lead dysfunction-complication,		
Pacemaker lead inadvertently positioned in artery,	to 916	11.12.43	996.0	T82.8	11.11.40	Pacemaker lead dysfunction-complication,		
Pacemaker lead causing compromised venous return (occlusion),	to 916	11.12.44	996.0	T82.8	11.11.40	Pacemaker lead dysfunction-complication,		
Pacemaker lead causing nerve compression,	to 916	11.12.45	996.0	353.0	T82.9	G54.0	11.11.40	Pacemaker lead dysfunction-complication,
Pacemaker lead causing brachial plexus nerve compression,	to 916	11.12.46	996.0	353.0	T82.9	G54.0	11.11.40	Pacemaker lead dysfunction-complication,
Pacemaker lead causing complete occlusion of vein containing lead,	to 916	11.12.47	996.0	T82.8	11.11.40	Pacemaker lead dysfunction-complication,		
908 Pacemaker mediated tachycardia								
Pacemaker mediated tachycardia,	to 916	11.11.33	996.0	T82.1	11.11.01	Pacemaker dysfunction-complication,		
Pacemaker mediated tachycardia: endless loop (retrograde atrioventricular conduction),	to 916	11.11.16	996.0	T82.1	11.11.01	Pacemaker dysfunction-complication,		
Pacemaker mediated tachycardia: runaway pacemaker (rapid spikes with low pacemaker voltage),	to 916	11.11.26	996.0	T82.1	11.11.01	Pacemaker dysfunction-complication,		
Pacemaker mediated tachycardia: atrial tachycardia,	to 916	11.11.35	996.0	T82.1	11.11.01	Pacemaker dysfunction-complication,		
909 Insertable electrocardiographic (ECG) loop recorder complications & management								
Insertable electrocardiographic (ECG) loop recorder complication,	to 1	11.11.80	996.0	T82.9	11.11.80	Insertable electrocardiographic (ECG) loop recorder complication,		
Insertable electrocardiographic (ECG) loop recorder malfunction,	to 1	11.11.81	996.0	T82.9	11.11.80	Insertable electrocardiographic (ECG) loop recorder complication,		
Insertable electrocardiographic (ECG) loop recorder site infection,	to 627	11.11.82	996.6	T82.7	11.11.80	Insertable electrocardiographic (ECG) loop recorder complication,		
Insertable electrocardiographic (ECG) loop recorder site erosion,	to 2900	11.12.55	996.6	T82.7	11.11.80	Insertable electrocardiographic (ECG) loop recorder complication,		
Insertable electrocardiographic (ECG) loop recorder dislodgement,	to 1	11.12.56	996.6	T82.7	11.11.80	Insertable electrocardiographic (ECG) loop recorder complication,		
Insertable electrocardiographic (ECG) loop recorder indication (time) for elective removal,	to 1	11.12.57	996.6	T82.7	11.11.80	Insertable electrocardiographic (ECG) loop recorder complication,		
Insertable electrocardiographic (ECG) loop recorder indication for elective replacement,	to 1	11.12.58	996.6	T82.7	11.11.80	Insertable electrocardiographic (ECG) loop recorder complication,		
910 Complications specific to implantable cardioverter & defibrillators								
Implantable cardioverter & defibrillator (ICD) dysfunction-complication,	to 917	11.11.60	996.0	T82.1	11.11.60	Implantable cardioverter & defibrillator (ICD) dysfunction-complication,		
Inappropriate implantable cardioverter & defibrillator (ICD) implantation,	to 917	11.12.49	996.0	T82.1	11.11.60	Implantable cardioverter & defibrillator (ICD) dysfunction-complication,		
Patch crumpling at implantable cardioverter & defibrillator (ICD) implantation site,	to 917	11.11.51	996.0	T82.1	11.11.60	Implantable cardioverter & defibrillator (ICD) dysfunction-complication,		
Inappropriate shocks by implantable cardioverter & defibrillator (ICD),	to 915	11.11.62	996.0	T82.1	11.11.60	Implantable cardioverter & defibrillator (ICD) dysfunction-complication,		
Electrical storm: 3 or more shocks in 1 day by implantable cardioverter & defibrillator (ICD),	to 917	11.12.48	996.0	T82.1	11.11.60	Implantable cardioverter & defibrillator (ICD) dysfunction-complication,		
High defibrillation threshold of implantable cardioverter & defibrillator (ICD),	to 917	11.11.63	996.0	T82.1	11.11.60	Implantable cardioverter & defibrillator (ICD) dysfunction-complication,		
Psychological sequelae of implantable cardioverter & defibrillator (ICD) implantation,	to 917	11.11.64	996.0	T82.9	11.11.60	Implantable cardioverter & defibrillator (ICD) dysfunction-complication,		
Implantable cardioverter & defibrillator (ICD) system infection,	to 917	11.11.65	996.0	T82.7	11.11.60	Implantable cardioverter & defibrillator (ICD) dysfunction-complication,		
Implantable cardioverter & defibrillator (ICD) system malfunction,	to 917	11.11.66	996.6	T82.7	11.11.60	Implantable cardioverter & defibrillator (ICD) dysfunction-complication,		
Low pacing defibrillator output,	to 917	11.11.67	996.6	T82.7	11.11.60	Implantable cardioverter & defibrillator (ICD) dysfunction-complication,		
Implantable cardioverter & defibrillator (ICD) dysfunction-complication causing death,	to 1	11.11.91	996.0	T82.1	11.11.60	Implantable cardioverter & defibrillator (ICD) dysfunction-complication,		
Indication for elective removal of implantable cardioverter & defibrillator (ICD) system,	to 917	11.12.62	996.0	T82.9	11.11.60	Implantable cardioverter & defibrillator (ICD) dysfunction-complication,		
Indication for elective replacement of implantable cardioverter & defibrillator (ICD) system,	to 917	11.12.63	996.0	T82.9	11.11.60	Implantable cardioverter & defibrillator (ICD) dysfunction-complication,		
915 @ Causes of implantable cardioverter & defibrillator (ICD) inappropriate shocks - qualifiers								
- due to sinus tachycardia,	to 917	Q1.36.81				not relevant		
- due to supraventricular tachycardia,	to 917	Q1.36.82				not relevant		
- due to inappropriate sensing,	to 917	Q1.36.83				not relevant		
- due to device failure,	to 917	Q1.36.84				not relevant		
- due to lead failure,	to 917	Q1.36.85				not relevant		
- due to programming error,	to 917	Q1.36.86				not relevant		
- unspecified-unknown cause,	to 917	Q1.01.30				not relevant		
no entry	to 917	not relevant						
916 @ Pacemaker & Implantable cardioverter & defibrillator (ICD) specific qualifiers								
- pacemaker,	to 917	Q1.36.90				not relevant		
- implantable cardioverter & defibrillator (ICD),	to 917	Q1.36.91				not relevant		
- combined pacemaker + implantable cardioverter & defibrillator (ICD),	to 917	Q1.36.92				not relevant		
no entry	to 917	not relevant						
917 @ Management decisions following arrhythmia related complications - qualifiers								
- requiring pacemaker system replacement,	to 1	Q1.37.01				not relevant		
- not requiring pacemaker system replacement,	to 1	Q1.37.02				not relevant		
- requiring pacemaker generator replacement,	to 1	Q1.37.03				not relevant		
- not requiring pacemaker generator replacement,	to 1	Q1.37.04				not relevant		
- requiring lead revision procedure,	to 1	Q1.37.05				not relevant		
- requiring lead replacement procedure,	to 1	Q1.37.06				not relevant		
- not requiring lead revision procedure,	to 1	Q1.37.07				not relevant		
- not requiring lead replacement procedure,	to 1	Q1.37.08				not relevant		
Cardiovascular site of complication	to 3200	not relevant						
no entry	to 1	not relevant						

925 **Complications following arrhythmia related procedures**

Complication following arrhythmia related procedure,	to 1800	15.51.00	998.9	T81.8	15.51.00	Complication following arrhythmia related procedure,
Transluminal arrhythmia ablation procedure related complication,	to 1800	15.51.01	998.9	T81.8	15.51.00	Complication following arrhythmia related procedure,
Post ablation procedure sinus node dysfunction,	to 850	15.51.02	427.8	997.1	Y83.8	15.51.00
Post ablation procedure sinus node dysfunction requiring pacemaker,	to 850	15.51.03	427.8	997.1	Y83.8	15.51.00
Post ablation procedure complete heart block,	to 1800	15.51.04	426.0	997.1	Y83.8	11.06.17
Therapeutic post ablation procedure partial atrioventricular block,	to 1	11.06.18	426.1	997.1	Y83.8	15.60.02
Therapeutic post ablation procedure complete atrioventricular block,	to 1	11.06.19	426.0	997.1	Y83.8	11.06.17
hadventent post ablation procedure partial atrioventricular block,	to 1	11.06.20	426.1	997.1	Y83.8	15.60.02
hadventent post ablation procedure complete atrioventricular block,	to 1	11.06.34	426.0	997.1	Y83.8	11.06.17
Post ablation procedure complete heart block requiring pacemaker,	to 1800	15.51.05	426.1	997.1	Y83.8	11.06.17

END OF SECTION

930 **Preprocedural Risk Factors and Quoted Procedural Risks**

Global functional status	to 742	not relevant				
Preprocedural signs/symptoms	to 760	not relevant				
Preprocedure renal, gastrointestinal, haematological and neurological risk factors	to 933	not relevant				
Quoted procedural risks	to 935	not relevant				
No preprocedural risk factors,	to 1	10.20.00			10.20.00	No preprocedural risk factors,
Preprocedural risk factor,	to 1	10.20.19			10.20.19	Preprocedural risk factor,
Weight less than 2.5 kg,	to 1	10.22.07	765.1	P07.1	10.22.07	Weight less than 2.5 kg,
Obesity (Body Mass Index over 30),	to 951	14.03.59	278.0	E66.9	14.03.59	Obesity (Body Mass Index over 30),
Preprocedural low cardiac output,	to 1885	10.20.01	428.9	E0.9	10.20.02	Preprocedural shock,
Preprocedural shock,	to 1885	10.20.02	785.5	R57.0	10.20.02	Preprocedural shock,
Preprocedural shock at time of surgery (persistent),	to 1885	10.20.31	785.5	R57.0	10.20.31	Preprocedural shock at time of surgery (persistent),
Preprocedural shock resolved by time of surgery,	to 1885	10.20.32	785.5	R57.0	10.20.32	Preprocedural shock resolved by time of surgery,
Preprocedural cardiopulmonary resuscitation (less than 48 hours),	to 896	10.20.33	427.5	Y66.9	10.20.33	Preprocedural cardiopulmonary resuscitation (less than 48 hours),
Preprocedural myocardial dysfunction,	to 951	10.20.34	428.9	E1.8	10.20.34	Preprocedural myocardial dysfunction,
Preprocedural myocardial infarct,	to 678	10.20.47	410	I21	10.18.00	Myocardial infarction,
Preprocedural pulmonary hypertension,	to 685	10.20.16	518.5	J95.8	10.20.16	Preprocedural pulmonary hypertension,
Preprocedural pulmonary hypertensive crisis (pulmonary pressure more than systemic pressure),	to 1	10.20.79	518.5	J95.8	10.20.45	Preprocedural pulmonary hypertension (pulmonary pressure more than or equal to systemic pressure): echo data,
Preprocedural pulmonary hypertension (pulmonary pressure more than or equal to systemic pressure): echo data,	to 1	10.20.45	518.5	J95.8	10.20.45	Preprocedural pulmonary hypertension (pulmonary pressure more than or equal to systemic pressure): echo data,
Preprocedural pulmonary hypertension (pulmonary pressure more than or equal to systemic pressure): catheter data,	to 1	10.20.46	518.5	J95.8	10.20.46	Preprocedural pulmonary hypertension (pulmonary pressure more than or equal to systemic pressure): catheter data,
Elevated lung resistance for biventricular repair (over 6 Wood units),	to 1	10.13.63	416.8	Z7.8	10.13.63	Elevated lung resistance for biventricular repair (over 6 Wood units),
Elevated lung resistance for heart transplant (over 4 Wood units),	to 1	10.13.64	416.8	Z7.8	10.13.64	Elevated lung resistance for heart transplant (over 4 Wood units),
Elevated lung resistance for univentricular repair (over 2 Wood units),	to 1	10.13.65	416.8	Z7.8	10.13.65	Elevated lung resistance for univentricular repair (over 2 Wood units),
Preprocedural arrhythmia,	to 800	10.20.03	427.9	Y49.9	10.20.03	Preprocedural arrhythmia,
Preprocedural complete atrioventricular block,	to 1	11.06.35	426	Y44.2	11.06.35	Preprocedural complete atrioventricular block,
Preprocedural metabolic derangement,	to 1935	10.20.04	277.9	E88.9	10.20.19	Preprocedural risk factor,
Preprocedural acidosis,	to 1936	10.20.05	276.9	E87.8	10.20.05	Preprocedural acidosis,
Preprocedural septicaemia,	to 1	10.20.09	38.9	A41.9	10.20.09	Preprocedural septicaemia,
Preprocedural septicaemia with positive blood culture,	to 1	10.20.77	38.9	A41.9	10.20.09	Preprocedural septicaemia,
Preprocedural endocarditis,	to 616	10.06.65	421	I33.0	10.06.65	Preprocedural endocarditis,
Preprocedural chest infection,	to 3300	10.20.10	518.9	J98.8	15.80.21	Postprocedural pulmonary infection,
Preprocedural respiratory syncytial virus (RSV) infection,	to 1	10.20.37	465.9	J12.1	10.20.37	Preprocedural respiratory syncytial virus (RSV) infection,
Preprocedural pyrexia,	to 1	10.20.11	780.6	R50.9	10.20.19	Preprocedural risk factor,
Preprocedural mechanical ventilatory support,	to 1	10.20.14	V46.1	Z99.1	10.20.14	Preprocedural mechanical ventilatory support,
Preprocedural mechanical ventilatory support for cardiorespiratory failure,	to 1	10.20.78	V46.1	Z99.1	10.20.14	Preprocedural mechanical ventilatory support,
Preprocedural mechanical circulatory support,	to 1	10.20.15	V46.8	Z99.8	10.20.15	Preprocedural mechanical circulatory support,
Preprocedural tracheostomy,	to 1	10.20.17	V44.0	Z93.0	10.20.17	Preprocedural tracheostomy,
Preprocedural steroid therapy,	to 1	10.20.43	V15.8	Z92.2	10.20.19	Preprocedural risk factor,
Preprocedural steroid therapy for adrenal insufficiency,	to 1	10.20.75	V15.8	Z92.2	10.20.19	Preprocedural risk factor,
Preprocedural steroid therapy for other than adrenal insufficiency,	to 1	10.20.76	V15.8	Z92.2	10.20.19	Preprocedural risk factor,
Pretransplant high level of Panel Reactive Antibodies (PRA),	to 1	10.20.44	V12.2	Z86.2	10.20.19	Preprocedural risk factor,

933 **Preprocedure renal, gastrointestinal, haematological and neurological risk factors**

Preprocedural renal failure (creatinine over 176micromol/l),	to 1	10.20.07	584.9	N17.9	10.20.07	Preprocedural renal failure (creatinine over 176micromol/l),
Preprocedural renal failure requiring dialysis,	to 1	10.20.08	V45.1	Z99.2	10.20.08	Preprocedural renal failure requiring dialysis,
Preprocedural necrotising enterocolitis: treated medically,	to 1	10.20.38	777.5	P77	10.20.38	Preprocedural necrotising enterocolitis: treated medically,
Preprocedural necrotising enterocolitis: treated surgically,	to 1	10.20.39	777.5	P77	10.20.39	Preprocedural necrotising enterocolitis: treated surgically,
Preprocedural enterostomy present,	to 1	10.20.40	V44.4	Z93.4	10.20.19	Preprocedural risk factor,
Preprocedural oesophagostomy present,	to 1	10.20.48	V44.4	Z93.4	10.20.19	Preprocedural risk factor,
Preprocedural gastrostomy present,	to 1	10.20.49	V44.4	Z93.4	10.20.19	Preprocedural risk factor,
Preprocedural colostomy present,	to 1	10.20.70	V44.4	Z93.4	10.20.19	Preprocedural risk factor,
Preprocedural hepatic dysfunction,	to 951	10.20.36	573.9	K72.9	10.20.19	Preprocedural risk factor,
Preprocedural coagulation disorder,	to 951	10.20.06	286.9	D68.9	10.20.06	Preprocedural coagulation disorder,
Preprocedural coagulation disorder: acquired,	to 951	10.20.35	286.9	D68.9	10.20.06	Preprocedural coagulation disorder,
Preprocedural hypercoagulable state,	to 951	10.20.71	286.9	D68.9	10.20.06	Preprocedural coagulation disorder,
Preprocedural hypocoagulable state,	to 951	10.20.72	286.9	D68.9	10.20.06	Preprocedural coagulation disorder,
Preprocedural hypocoagulable state due to medication,	to 985	10.20.73	286.9	D68.9	10.20.06	Preprocedural coagulation disorder,
Preprocedural intrinsic hypocoagulable state (not due to medication),	to 951	10.20.74	286.9	D68.9	10.20.06	Preprocedural coagulation disorder,
Preprocedural neurological impairment,	to 951	10.20.12	348.9	G93.9	10.20.12	Preprocedural neurological impairment,
Preprocedural seizures,	to 1	10.20.18	345.9	R56.8	10.20.18	Preprocedural seizures,
Preprocedural cerebral abnormality on imaging,	to 951	10.20.13	793	R90.8	10.20.13	Preprocedural cerebral abnormality on imaging,
Preprocedural (over 48 hours) cerebrovascular accident or intraventricular haemorrhage (more than grade 2),	to 1	10.20.41	436	I64	10.20.19	Preprocedural risk factor,
Preprocedural (under 48 hours) cerebrovascular accident or intraventricular haemorrhage (more than grade 2),	to 1	10.20.42	436	I64	10.20.19	Preprocedural risk factor,

935 **Quoted procedural risks**

Quoted procedural risk of death less than 1%,	to 1	10.20.51			not relevant
Quoted procedural risk of death 1-2%,	to 1	10.20.52			not relevant
Quoted procedural risk of death 2-3%,	to 1	10.20.53			not relevant
Quoted procedural risk of death 3-4%,	to 1	10.20.54			not relevant
Quoted procedural risk of death 4-5%,	to 1	10.20.55			not relevant
Quoted procedural risk of death 5-10%,	to 1	10.20.56			not relevant
Quoted procedural risk of death 10-15%,	to 1	10.20.57			not relevant
Quoted procedural risk of death 15-20%,	to 1	10.20.58			not relevant
Quoted procedural risk of death 20-30%,	to 1	10.20.59			not relevant
Quoted procedural risk of death 30-40%,	to 1	10.20.60			not relevant
Quoted procedural risk of death 40-50%,	to 1	10.20.61			not relevant
Quoted procedural risk of death over 50%,	to 1	10.20.62			not relevant
Quoted procedural risk of death: very high risk (unlikely to survive),	to 1	10.20.63			not relevant
Procedural risk of death not quoted,	to 1	10.20.64			not relevant

END OF SECTION

950 @ **Diagnostic and site specific qualifier terms**

Non-specific severity rating - qualifiers	to 951	not relevant
Non-specific generic qualifiers	to 952	not relevant
Non-specific status terms	to 953	not relevant
Cardiovascular Z scores	to 955	not relevant
Cause & type of vessel stenosis or obstruction	to 958	not relevant
Severity & type of obstruction, stenosis or regurgitation of valve, outflow tract, artery, vein or conduit - qualifiers	to 960	not relevant
Severity of hypoplasia, hypertrophy or dilation of artery, vein, conduit or chamber - qualifiers	to 962	not relevant
Severity & cause of valvar or conduit regurgitation - qualifiers	to 963	not relevant
Size of septal defects - qualifiers	to 966	not relevant
Estimated ventricular function such as fractional shortening - qualifiers	to 972	not relevant
Characteristics of overriding valves - qualifiers	to 973	not relevant
Characteristics of pulmonary-systemic blood flow (including Qp:Qs) - qualifiers	to 975	not relevant
Characteristics and severity of aortic dilation & aneurysms	to 976	not relevant
Characteristics and severity of aortic dissection	to 977	not relevant
Systemic hypertension qualifiers	to 982	not relevant
Specific part of respiratory tract involved in abnormality/procedure - qualifiers	to 3200	not relevant
Site of cardiac or vascular lesion, injury, tumour or procedure - qualifiers	to 3205	not relevant
Drugs and toxic agents associated with cardiovascular disease	to 985	not relevant
Foreign Bodies involved in Cardiothoracic Pathology or Trauma	to 987	not relevant
Occupations associated with cardiovascular disease	to 989	not relevant
Gestational age qualifiers	to 990	not relevant
Fetal valvar abnormality qualifiers	to 991	not relevant

951 @ Non-specific severity rating - qualifiers

- trivial,	to 1	Q1.40.00	not relevant
- mild,	to 1	Q1.40.01	not relevant
- small,	to 1	Q1.27.61	not relevant
- mild-moderate,	to 1	Q1.40.02	not relevant
- moderate,	to 1	Q1.40.03	not relevant
- moderate-severe,	to 1	Q1.40.04	not relevant
- large,	to 1	Q1.27.63	not relevant
- severe,	to 1	Q1.40.05	not relevant
- severe intractable,	to 1	Q1.40.10	not relevant
- very large,	to 1	Q1.27.73	not relevant
- critical,	to 1	Q1.40.06	not relevant
- noncritical,	to 1	Q1.40.09	not relevant
- ruled out,	to 1	Q1.90.57	not relevant
- with no haemodynamic effect,	to 1	Q1.90.11	not relevant
- severity unknown,	to 1	Q1.90.12	not relevant
Non-specific generic & aetiology qualifiers	to 952	not relevant	
no entry	to 1	not relevant	

952 @ Non-specific generic qualifiers

- diagnosis uncertain,	to 1	Q1.90.50	not relevant
- diagnosis suspected,	to 1	Q1.90.84	not relevant
- ruled out,	to 1	Q1.90.57	not relevant
- not apparent,	to 1	Q1.90.69	not relevant
- not present,	to 1	Q1.90.81	not relevant
- in the setting of,	to 1	Q5.81.38	not relevant
- treated,	to 1	Q1.90.41	not relevant
- untreated,	to 1	Q1.90.42	not relevant
- caused by,	to 1	Q1.90.78	not relevant
- due to infection,	to 627	Q1.90.85	not relevant
- due to trauma,	to 1	Q1.90.86	not relevant
- anatomic location unknown,	to 1	Q1.90.98	not relevant
- anatomic location unspecified or unknown,	to 1	Q1.90.99	not relevant
- anatomic location unspecified,	to 1	Q1.91.00	not relevant
- iatrogenic,	to 1	Q1.90.53	not relevant
- residual,	to 1	Q1.90.54	not relevant
- residual: intentional,	to 1	Q1.91.50	not relevant
- residual: inadvertent,	to 1	Q1.91.51	not relevant
- resolved,	to 1	Q1.90.55	not relevant
- resolved spontaneously,	to 1	Q1.90.91	not relevant
- recurrent,	to 1	Q1.90.72	not relevant
- no abnormality detected,	to 1	Q1.90.56	not relevant
- normal,	to 1	Q1.90.58	not relevant
- abnormal,	to 1	Q1.90.59	not relevant
- congenital,	to 1	Q1.90.60	not relevant
- acquired,	to 1	Q1.90.62	not relevant
- right-sided,	to 951	Q1.90.65	not relevant
- left-sided,	to 951	Q1.90.66	not relevant
- bilateral,	to 951	Q1.90.88	not relevant
- partial-incomplete,	to 1	Q1.90.70	not relevant
- complete,	to 1	Q1.90.71	not relevant
- isolated (without ventricular septal defect (VSD) or complex intracardiac anomaly),	to 1	Q1.90.77	not relevant
- with associated cardiac anomaly,	to 1	Q1.91.60	not relevant
- with complex intracardiac anomaly,	to 1	Q1.90.80	not relevant
- associated with other pathology,	to 1	Q1.90.79	not relevant
- isolated lesion,	to 1	Q1.90.82	not relevant
- characteristics unknown or unspecified,	to 1	Q1.90.83	not relevant
- unknown,	to 1	Q1.90.92	not relevant
- unknown or unspecified,	to 1	Q1.90.93	not relevant
- unspecified,	to 1	Q1.90.94	not relevant
- other specified,	to 1	Q1.92.21	not relevant
- aetiology unspecified,	to 1	Q1.90.97	not relevant
- aetiology unknown or unspecified,	to 1	Q1.90.96	not relevant
- aetiology unknown,	to 1	Q1.90.95	not relevant
no entry	to 1	not relevant	

953 @ Non-specific status terms

Specific post-procedural status qualifier codes	to 954	not relevant	
- status: post,	to 1	Q1.90.40	not relevant
- status: postprocedure,	to 1	Q1.90.51	not relevant
- status: not postprocedure,	to 1	Q1.90.61	not relevant
- status: preprocedure,	to 1	Q1.90.52	not relevant
- status: postpalliation,	to 1	Q1.90.73	not relevant
- status: postrepair,	to 1	Q1.90.74	not relevant
- status: after attempted procedure,	to 1	Q1.90.75	not relevant
- preprocedural,	to 1	Q1.90.63	not relevant
- postprocedural,	to 1	Q1.90.64	not relevant
- post right ventriculotomy,	to 1	Q1.92.25	not relevant
- post left ventriculotomy,	to 1	Q1.92.26	not relevant
- status: postsurgical procedure,	to 1	Q1.90.67	not relevant
- status: post cardiac surgery,	to 1	Q1.92.27	not relevant
- status: post cardiothoracic surgery,	to 1	Q1.92.32	not relevant
- status: not postsurgical,	to 1	Q1.90.89	not relevant
- status: posttranscatheter procedure,	to 1	Q1.90.68	not relevant
- status: not posttranscatheter procedure,	to 1	Q1.90.90	not relevant
- status: not postoperative or postcatheter intervention,	to 1	Q1.92.20	not relevant
- status: post balloon dilation,	to 1	Q1.92.30	not relevant
- status: postangioplasty,	to 1	Q1.91.52	not relevant
- status receiving extracorporeal life support therapy (ECMO),	to 1	Q1.91.65	not relevant
- status post extracorporeal life support therapy (ECMO),	to 1	Q1.91.66	not relevant
- status not post extracorporeal life support therapy (ECMO),	to 1	Q1.91.67	not relevant
- status post median sternotomy,	to 1	Q1.91.56	not relevant
- status post trauma,	to 1	Q1.91.68	not relevant
- status post iatrogenic trauma,	to 1	Q1.91.69	not relevant
- fetal,	to 1	Q1.91.54	not relevant
- neonatal,	to 1	Q5.81.29	not relevant
- infantile (non-neonatal),	to 1	Q5.81.30	not relevant
- non-infantile,	to 1	Q1.92.31	not relevant
- age over 1 year,	to 1	Q5.81.31	not relevant
- age under 18 years,	to 1000	Q5.81.10	not relevant
- age more than or equal to 18 years (adult),	to 1000	Q5.81.11	not relevant
- patient with congenital heart disease,	to 1	Q5.81.34	not relevant
- patient with acquired heart disease,	to 1	Q5.81.35	not relevant
no entry	to 1	not relevant	

954 @ Specific post-procedural qualifier codes

- status post: insertion of cardiac conduit,	to 1	Q1.90.76	not relevant
- status post: pericardiectomy,	to 1	Q1.90.87	not relevant
- status post procedure (not Ross or arterial switch),	to 1	Q1.91.55	not relevant
- status post aortic valve replacement with autograft (Ross),	to 1	Q1.97.30	not relevant
- status post aortic root replacement,	to 1	Q1.97.31	not relevant
- status post tetralogy of Fallot repair,	to 1	Q1.97.32	not relevant
- status post coronary artery procedure,	to 1	Q1.97.33	not relevant
- status post common arterial trunk procedure,	to 1	Q1.97.34	not relevant
- status post atrial inversion procedure,	to 1	Q1.97.01	not relevant
- status post atrial inversion procedure: Mustard,	to 1	Q1.97.02	not relevant
- status post atrial inversion procedure: Senning,	to 1	Q1.97.03	not relevant
- status post atrial inversion procedure: Mustard or Senning,	to 1	Q1.97.04	not relevant
- status post arterial switch procedure,	to 1	Q1.97.24	not relevant
- status post ventricular septal defect (VSD) repair,	to 1	Q1.97.05	not relevant
- status post subaortic stenosis repair,	to 1	Q1.97.06	not relevant
- status post procedure other than ventricular septal defect (VSD) or subaortic stenosis repair,	to 1	Q1.97.07	not relevant
- status post valvoplasty: same valve,	to 1	Q1.97.08	not relevant
- status post valvoplasty: different valve,	to 1	Q1.97.09	not relevant
- status post valve replacement: same valve,	to 1	Q1.97.10	not relevant
- status post valve replacement: different valve,	to 1	Q1.97.11	not relevant
- status post other non valve procedure,	to 1	Q1.97.12	not relevant
- status post banding of pulmonary trunk,	to 1	Q1.97.13	not relevant
- status post banding of pulmonary trunk & systemic-to-pulmonary arterial shunt,	to 1	Q1.97.25	not relevant
- status without preceding banding of pulmonary trunk,	to 1	Q1.97.26	not relevant
- status post systemic-to-pulmonary arterial shunt,	to 1	Q1.97.37	not relevant
- status post right-sided systemic-to-pulmonary arterial shunt,	to 1	Q1.97.38	not relevant
- status post left-sided systemic-to-pulmonary arterial shunt,	to 1	Q1.97.39	not relevant
- status post central systemic-to-pulmonary arterial shunt,	to 1	Q1.97.40	not relevant
- status post superior cavopulmonary connection (Glenn),	to 1	Q1.97.14	not relevant
- status post superior cavopulmonary connection with azygos continuation of interrupted inferior caval vein,	to 1	Q1.97.15	not relevant
- status post superior cavopulmonary connection without azygos continuation of interrupted inferior caval vein,	to 1	Q1.97.16	not relevant
- status post Fontan-type procedure,	to 1	Q1.97.35	not relevant

- status post fenestrated Fontan-type procedure,	to 1	Q1.97.36	not relevant
- status post partial ventricular septation,	to 1	Q1.97.17	not relevant
- status not post partial ventricular septation,	to 1	Q1.97.18	not relevant
- status post Norwood type procedure,	to 1	Q1.97.19	not relevant
- status not post Norwood type procedure,	to 1	Q1.97.20	not relevant
- status post stent placement in arterial duct,	to 1	Q1.97.21	not relevant
- status post coarctation repair at same aortic site,	to 1	Q1.97.22	not relevant
- status post coarctation repair at different aortic site,	to 1	Q1.97.23	not relevant
- status post transcatheter balloon dilation of coarctation site,	to 1	Q1.97.28	not relevant
- status post stent placement at aortic coarctation site,	to 1	Q1.97.29	not relevant
- status post interrupted aortic arch repair,	to 1	Q1.97.27	not relevant
- status: postendomyocardial biopsy,	to 1	Q1.91.53	not relevant
- status post median sternotomy for coronary arterial bypass procedure (CABG),	to 1	Q1.91.57	not relevant
- status post median sternotomy: non-coronary arterial bypass procedure (CABG),	to 1	Q1.91.58	not relevant
- status: post arrhythmia ablation procedure,	to 1	Q1.91.59	not relevant
- status: post arrhythmia ablation procedure: transcatheter,	to 1	Q1.92.22	not relevant
- status: post arrhythmia ablation procedure: transcatheter radiofrequency,	to 1	Q1.92.24	not relevant
- status: post arrhythmia ablation procedure: open surgical,	to 1	Q1.92.23	not relevant
- status: post pacemaker implantation,	to 1	Q1.91.62	not relevant
- status: post implantable cardioverter & defibrillator (ICD) implantation,	to 1	Q1.91.63	not relevant
- status: post electrocardiographic (ECG) loop recorder implantation,	to 1	Q1.91.64	not relevant
- status: post heart transplant,	to 1	Q1.91.80	status: post heart transplant,
- status: post heart & lung(s) transplant,	to 1	Q1.91.81	status: post heart & lung(s) transplant,
- status: post lung(s) transplant,	to 1	Q1.91.82	status: post lung(s) transplant,
- status: post heart and/or lung(s) transplant,	to 1	Q1.91.83	not relevant
no entry	to 1	not relevant	

955 @ Cardiovascular Z scores

- normal z score between -2 & +2,	to 1	Q1.89.30	not relevant
- Z score +5 or larger,	to 1	Q1.90.31	not relevant
- Z score +5,	to 1	Q1.90.36	not relevant
- Z score over +4 & less than or equal to +5,	to 1	Q1.90.37	not relevant
- Z score +4,	to 1	Q1.90.32	not relevant
- Z score over +3 & less than or equal to +4,	to 1	Q1.90.38	not relevant
- Z score +3,	to 1	Q1.90.33	not relevant
- Z score over +2 & less than or equal to +3,	to 1	Q1.90.39	not relevant
- Z score +2,	to 1	Q1.90.34	not relevant
- Z score over +1 & less than or equal to +2,	to 1	Q1.89.31	not relevant
- Z score +1,	to 1	Q1.90.35	not relevant
- Z score over 0 & less than or equal to +1,	to 1	Q1.89.32	not relevant
- Z score 1 or larger,	to 1	Q1.90.22	not relevant
- Z score 0,	to 1	Q1.90.23	not relevant
- Z score over or equal to -1 to less than 0,	to 1	Q1.89.33	not relevant
- Z score -1,	to 1	Q1.90.24	not relevant
- Z score over or equal to -2 to less than -1,	to 1	Q1.89.34	not relevant
- Z score -2,	to 1	Q1.90.25	not relevant
- Z score over or equal to -3 to less than -2,	to 1	Q1.89.35	not relevant
- Z score -3,	to 1	Q1.90.26	not relevant
- Z score over or equal to -4 to less than -3,	to 1	Q1.89.36	not relevant
- Z score -4,	to 1	Q1.90.27	not relevant
- Z score over or equal to -5 to less than -4,	to 1	Q1.89.37	not relevant
- Z score -5,	to 1	Q1.90.30	not relevant
- Z score -5 or smaller,	to 1	Q1.90.28	not relevant
- Z score -6 or smaller,	to 1	Q1.90.29	not relevant
- Z score (DESCRIBE),	to 1	Q1.89.38	not relevant
no entry	to 1	not relevant	

958 @ Cause & type of vessel stenosis-obstruction

- intrinsic,	to 960	Q1.08.01	not relevant
- due to extrinsic compression,	to 960	Q1.08.02	not relevant
- due to extrinsic cardiac compression,	to 960	Q1.08.09	not relevant
- due to extrinsic vascular compression,	to 960	Q1.08.10	not relevant
- due to extrinsic compression by tumour,	to 960	Q1.08.11	not relevant
- discrete,	to 960	Q1.08.03	not relevant
- long segment focal (tubular),	to 960	Q1.08.04	not relevant
- multiple discrete,	to 960	Q1.08.05	not relevant
- diffusely hypoplastic,	to 960	Q1.08.06	not relevant
- dynamic,	to 960	Q1.08.07	not relevant
- fixed,	to 960	Q1.08.08	not relevant
- type of vessel narrowing (DESCRIBE),	to 960	Q1.08.19	not relevant
- due to tumour,	to 960	Q1.92.06	not relevant
- due to tumour: benign,	to 960	Q1.92.11	not relevant
- due to tumour: malignant,	to 960	Q1.92.12	not relevant
- due to granulation tissue,	to 960	Q1.08.12	not relevant
- due to infection,	to 627	Q1.90.85	not relevant
- due to trauma,	to 960	Q1.90.86	not relevant
- due to atherosclerosis,	to 960	Q1.08.20	not relevant
- progressive,	to 960	Q1.08.13	not relevant
no entry	to 960	not relevant	

960 @ Severity & type of obstruction, stenosis or regurgitation of valve, outflow tract, artery, vein or conduit - qualifiers

Specific regurgitation qualifiers	to 963	not relevant	
- functional (high flow),	to 961	Q1.40.07	not relevant
- trivial,	to 961	Q1.40.00	not relevant
- mild,	to 961	Q1.40.01	not relevant
- mild-moderate,	to 961	Q1.40.02	not relevant
- moderate,	to 961	Q1.40.03	not relevant
- moderate-severe,	to 961	Q1.40.04	not relevant
- severe,	to 961	Q1.40.05	not relevant
- critical,	to 961	Q1.40.06	not relevant
- noncritical,	to 961	Q1.40.09	not relevant
- ruled out,	to 961	Q1.90.57	not relevant
- new onset,	to 961	Q1.40.31	not relevant
- with no haemodynamic effect,	to 961	Q1.90.11	not relevant
- severity unknown,	to 961	Q1.90.12	not relevant
- diffuse,	to 961	Q1.90.13	not relevant
- localized,	to 961	Q5.40.24	not relevant
- central,	to 961	Q1.90.16	not relevant
- periprosthetic,	to 961	Q1.90.17	not relevant
- single site,	to 961	Q1.90.14	not relevant
- multiple sites,	to 961	Q1.90.15	not relevant
- less than 50% narrowing,	to 961	Q1.40.90	not relevant
- 51-70% narrowing,	to 961	Q1.40.91	not relevant
- 71-90% narrowing,	to 961	Q1.40.92	not relevant
- 91-99% narrowing,	to 961	Q1.40.93	not relevant
- 100% (occluded),	to 961	Q1.40.94	not relevant
no entry	to 961	not relevant	

961 @ Causes of obstruction, stenosis or regurgitation of valve, outflow tract, artery, vein or conduit - qualifiers

- due to abnormal atrioventricular valvar attachment,	to 1	Q1.40.28	not relevant
- due to atrioventricular valvar accessory tissue,	to 1	Q1.40.29	not relevant
- due to atrioventricular valvar tissue tag,	to 1	Q1.40.30	not relevant
- due to multilevel valvar disease,	to 1	Q1.40.24	not relevant
- due to valvar disease,	to 1	Q1.40.25	not relevant
- due to supravalar disease,	to 1	Q1.40.26	not relevant
- due to subvalvar disease,	to 1	Q1.40.27	not relevant
- aetiology unknown,	to 1	Q1.90.95	not relevant
no entry	to 1	not relevant	

962 @ Severity of hypoplasia, hypertrophy or dilation of artery, vein, conduit or chamber - qualifiers

- mild,	to 1	Q1.40.01	not relevant
- mild-moderate,	to 1	Q1.40.02	not relevant
- moderate,	to 1	Q1.40.03	not relevant
- moderate-severe,	to 1	Q1.40.04	not relevant
- severe,	to 1	Q1.40.05	not relevant
- ruled out,	to 1	Q1.90.57	not relevant
- severity unknown,	to 1	Q1.90.12	not relevant
no entry	to 1	not relevant	

963 @ Severity and characteristics of valvar or conduit regurgitation - qualifiers

- trace (functional),	to 965	Q1.40.08	not relevant
- trivial,	to 965	Q1.40.00	not relevant
- mild (2+),	to 965	Q1.40.11	not relevant
- mild-moderate (2-3+),	to 965	Q1.40.12	not relevant
- moderate (3+),	to 965	Q1.40.13	not relevant
- moderate-severe (3-4+),	to 965	Q1.40.14	not relevant

- severe (4+),	to 965	Q1.40.15	not relevant
- severely unknown,	to 965	Q1.90.12	not relevant
- holosystolic,	to 965	Q1.40.32	not relevant
- not holosystolic,	to 965	Q1.40.33	not relevant
- holosystolic with atrial enlargement,	to 965	Q1.40.34	not relevant
- holosystolic without atrial enlargement,	to 965	Q1.40.35	not relevant
- with pulmonary arterial flow reversal,	to 965	Q1.40.36	not relevant
- with aortic arch flow reversal,	to 965	Q1.40.37	not relevant
- with aortic arch and descending aorta flow reversal,	to 965	Q1.40.38	not relevant
- with pandiastolic retrograde flow,	to 965	Q1.28.11	not relevant
- with pansystolic retrograde flow,	to 965	Q1.28.13	not relevant
- with continuous retrograde flow,	to 965	Q1.28.15	not relevant
- post-valvotomy regurgitation over 1 grade worse than pre-procedure,	to 965	Q1.40.16	not relevant
- ruled out,	to 965	Q1.90.57	not relevant
- new onset,	to 965	Q1.40.31	not relevant
- characteristics unknown or unspecified,	to 1	Q1.90.83	not relevant
no entry	to 1	not relevant	
965 @ Cause of valvar or conduit regurgitation - qualifiers			
- due to noncoapting leaflets,	to 1	Q1.40.18	not relevant
- due to leaflet deficiency,	to 1	Q1.40.19	not relevant
- due to leaflet prolapse,	to 1	Q1.40.20	not relevant
- due to absent leaflet(s),	to 1	Q1.40.21	not relevant
- due to leaflet perforation,	to 1	Q1.40.22	not relevant
- due to fail leaflet(s),	to 1	Q1.40.23	not relevant
- due to multilevel valvar disease,	to 1	Q1.40.24	not relevant
- due to valvar disease,	to 1	Q1.40.25	not relevant
- due to supravvalvar disease,	to 1	Q1.40.26	not relevant
- due to subvalvar disease,	to 1	Q1.40.27	not relevant
- aetiology unknown,	to 1	Q1.90.95	not relevant
no entry	to 1	not relevant	
966 @ Size and characteristics of septal defects - qualifiers			
- trivial and silent,	to 967	Q1.27.60	not relevant
- tiny,	to 967	Q1.27.70	not relevant
- small,	to 967	Q1.27.61	not relevant
- small-moderate,	to 967	Q1.27.71	not relevant
- moderate,	to 967	Q1.40.03	not relevant
- moderate-large,	to 967	Q1.27.72	not relevant
- large,	to 967	Q1.27.63	not relevant
- very large,	to 967	Q1.27.73	not relevant
- size unknown,	to 967	Q1.28.03	not relevant
- septal defect characteristic (DESCRIBE),	to 967	Q1.28.04	not relevant
Functional characteristics of septal defects - qualifiers	to 967	not relevant	
no entry	to 967	not relevant	
967 @ Functional characteristics of septal defects - qualifiers			
- nonrestrictive,	to 1	Q1.27.64	not relevant
- restrictive,	to 1	Q1.27.65	not relevant
- with right to left flow,	to 1	Q1.27.66	not relevant
- with left to right flow,	to 1	Q1.27.67	not relevant
- with bidirectional flow,	to 1	Q1.27.68	not relevant
- with unknown direction of flow,	to 1	Q1.28.01	not relevant
- with flow from pulmonary venous to systemic venous atrium,	to 1	Q1.27.86	not relevant
- with flow from systemic venous to pulmonary venous atrium,	to 1	Q1.27.87	not relevant
- with functionally left ventricle to right atrium flow,	to 1	Q1.27.59	not relevant
- characteristics unknown or unspecified,	to 1	Q1.90.83	not relevant
Characteristics of overriding valves - qualifiers	to 973	not relevant	
Severity and characteristics of valvar regurgitation - qualifiers	to 963	not relevant	
no entry	to 1	not relevant	
968 @ Size and shape of patent arterial duct - qualifiers			
- trivial and silent,	to 969	Q1.27.60	not relevant
- tiny,	to 969	Q1.27.70	not relevant
- small,	to 969	Q1.27.61	not relevant
- small-moderate,	to 969	Q1.27.71	not relevant
- moderate,	to 969	Q1.40.03	not relevant
- moderate-large,	to 969	Q1.27.72	not relevant
- large,	to 969	Q1.27.63	not relevant
- very large,	to 969	Q1.27.73	not relevant
- size unknown,	to 969	Q1.28.03	not relevant
- normal shape,	to 969	Q1.27.95	not relevant
- abnormal shape,	to 969	Q1.27.96	not relevant
- curly arterial duct,	to 969	Q1.27.80	not relevant
- straight arterial duct,	to 969	Q1.27.81	not relevant
- short (AP window) arterial duct,	to 969	Q1.27.82	not relevant
- siphon arterial duct (systemic-to-pulmonary collateral artery type),	to 969	Q1.27.90	not relevant
- tubular arterial duct,	to 969	Q1.27.91	not relevant
- pulmonary atresia type (aortic arch to pulmonary artery),	to 969	Q1.27.92	not relevant
- aortic arch obstruction type (ductal arch),	to 969	Q1.27.93	not relevant
- elongated arterial duct,	to 969	Q1.27.94	not relevant
- shape unknown,	to 969	Q1.28.02	not relevant
- characteristics unknown or unspecified,	to 969	Q1.90.83	not relevant
- arterial duct characteristic (DESCRIBE),	to 969	Q1.27.69	not relevant
Functional characteristics of patent arterial duct - qualifiers	to 969	not relevant	
no entry	to 969	not relevant	
969 @ Functional characteristics of patent arterial duct - qualifiers			
- nonrestrictive,	to 1	Q1.27.64	not relevant
- restrictive,	to 1	Q1.27.65	not relevant
- constricted at aortic end,	to 1	Q1.27.88	not relevant
- constricted at pulmonary end,	to 1	Q1.27.89	not relevant
- with multiple constrictions,	to 1	Q1.27.97	not relevant
- with right to left flow,	to 1	Q1.27.66	not relevant
- with left to right flow,	to 1	Q1.27.67	not relevant
- with bidirectional flow,	to 1	Q1.27.68	not relevant
- with pandiastolic antegrade flow,	to 1	Q1.28.10	not relevant
- with pandiastolic retrograde flow,	to 1	Q1.28.11	not relevant
- with pansystolic antegrade flow,	to 1	Q1.28.12	not relevant
- with pansystolic retrograde flow,	to 1	Q1.28.13	not relevant
- with continuous antegrade flow,	to 1	Q1.28.14	not relevant
- with continuous retrograde flow,	to 1	Q1.28.15	not relevant
- with unknown direction of flow,	to 1	Q1.28.01	not relevant
- characteristics unknown or unspecified,	to 1	Q1.90.83	not relevant
no entry	to 1	not relevant	
970 @ Aetiology and characteristics of acquired vascular obstruction			
- partial-incomplete,	to 1	Q1.90.70	not relevant
- complete,	to 1	Q1.90.71	not relevant
- intrinsic,	to 1	Q1.08.01	not relevant
- due to extrinsic compression,	to 1	Q1.08.02	not relevant
- due to mass,	to 1	Q1.92.03	not relevant
- due to thrombus,	to 1	Q1.92.04	not relevant
- due to endovascular vegetation,	to 1	Q1.92.05	not relevant
- due to tumour,	to 1	Q1.92.06	not relevant
- due to tumour: benign,	to 1	Q1.92.11	not relevant
- due to tumour: malignant,	to 1	Q1.92.12	not relevant
- due to pacing wire,	to 1	Q1.92.07	not relevant
- due to prosthetic closure device,	to 1	Q1.92.08	not relevant
- due to stent,	to 1	Q1.92.09	not relevant
- due to parasite,	to 1	Q1.92.10	not relevant
- characteristics unknown or unspecified,	to 1	Q1.90.83	not relevant
- aetiology unknown,	to 1	Q1.90.95	not relevant
Specific pulmonary artery involved in obstruction	to 353	not relevant	
no entry	to 1	not relevant	
972 @ Estimated ventricular function such as fractional shortening - qualifiers			
- normal: fractional shortening over 30%,	to 1	Q1.60.01	not relevant
- mildly-moderately impaired: fractional shortening 20 - 30%,	to 1	Q1.60.02	not relevant
- moderately-markedly impaired: fractional shortening 10 - 20%,	to 1	Q1.60.03	not relevant
- severely impaired: fractional shortening under 10%,	to 1	Q1.60.04	not relevant
- mild,	to 1	Q1.40.01	not relevant
- mild-moderate,	to 1	Q1.40.02	not relevant
- moderate,	to 1	Q1.40.03	not relevant
- moderate-severe,	to 1	Q1.40.04	not relevant

- severe,	to 1	Q1.40.05	not relevant
- with no haemodynamic effect,	to 1	Q1.90.11	not relevant
- severity unknown,	to 1	Q1.90.12	not relevant
Treatments required and responsiveness	to 1882	not relevant	
no entry	to 1	not relevant	
973 @ Characteristics of overriding valves - qualifiers			
- override of atrioventricular valve under 50%,	to 1	Q1.27.74	not relevant
- override of atrioventricular valve 50-90%,	to 1	Q1.27.75	not relevant
- override of atrioventricular valve over 90%,	to 1	Q1.27.76	not relevant
- override of aortic valve under 50%,	to 1	Q1.27.77	not relevant
- override of aortic valve 50-90%,	to 1	Q1.27.78	not relevant
- override of aortic valve over 90%,	to 1	Q1.27.79	not relevant
- override of pulmonary valve under 50%,	to 1	Q1.27.83	not relevant
- override of pulmonary valve 50-90%,	to 1	Q1.27.84	not relevant
- override of pulmonary valve over 90%,	to 1	Q1.27.85	not relevant
- override of ventriculo-arterial valve under 50%,	to 1	Q1.27.98	not relevant
- override of ventriculo-arterial valve 50-90%,	to 1	Q1.27.99	not relevant
- override of ventriculo-arterial valve over 90%,	to 1	Q1.28.00	not relevant
no entry	to 1	not relevant	
975 @ Characteristics of pulmonary-systemic blood flow (including Qp:Qs) - qualifiers			
- unrestricted pulmonary blood flow,	to 1	Q1.60.31	not relevant
- restricted pulmonary blood flow,	to 1	Q1.60.32	not relevant
- balanced systemic-to-pulmonary blood flow,	to 1	Q1.60.33	not relevant
- Qp:Qs under 1.1,	to 1	Q1.60.21	not relevant
- Qp:Qs 1.0-1.5:1,	to 1	Q1.60.22	not relevant
- Qp:Qs under 1.5:1,	to 1	Q1.60.25	not relevant
- Qp:Qs more than or equal to 1.5:1,	to 1	Q1.60.26	not relevant
- Qp:Qs over 1.5 & under 2.0:1,	to 1	Q1.60.27	not relevant
- Qp:Qs 2.0-3.0:1,	to 1	Q1.60.23	not relevant
- Qp:Qs over 3:1,	to 1	Q1.60.24	not relevant
- pulmonary to systemic blood flow ratio unknown,	to 1	Q1.60.34	not relevant
no entry	to 1	not relevant	
976 @ Characteristics and severity of vascular dilation & aneurysms			
- diameter under 43 mm,	to 978	Q1.40.40	not relevant
- diameter 43-49 mm,	to 978	Q1.40.41	not relevant
- diameter over 55 mm,	to 978	Q1.40.42	not relevant
- diameter 50-59 mm,	to 978	Q1.40.77	not relevant
- diameter over 60mm,	to 978	Q1.40.39	not relevant
- diameter 60-79 mm,	to 978	Q1.40.78	not relevant
- diameter over 80mm,	to 978	Q1.40.79	not relevant
- small,	to 978	Q1.27.61	not relevant
- moderate,	to 978	Q1.40.03	not relevant
- large,	to 978	Q1.27.63	not relevant
- size greater than 100% of adjacent vessel,	to 978	Q1.40.90	not relevant
- size unknown,	to 978	Q1.28.03	not relevant
- true aneurysm,	to 978	Q1.40.43	not relevant
- vascular false aneurysm,	to 978	Q1.40.44	not relevant
- intact (non-ruptured),	to 978	Q1.40.45	not relevant
- ruptured,	to 978	Q1.40.46	not relevant
- acute,	to 978	Q1.40.47	not relevant
- chronic,	to 978	Q1.40.48	not relevant
- fusiform,	to 978	Q1.40.50	not relevant
- saccular,	to 978	Q1.40.51	not relevant
- calcified,	to 978	Q1.40.57	not relevant
- with thrombosis,	to 978	Q1.40.58	not relevant
- with thrombus extension into adjacent vessel,	to 3205	Q1.40.65	not relevant
- with thromboembolic event,	to 978	Q1.40.66	not relevant
- with dissection,	to 978	Q1.40.67	not relevant
- with erosion into adjacent structure,	to 978	Q1.40.68	not relevant
- infected,	to 978	Q1.40.69	not relevant
- characteristics unknown or unspecified,	to 978	Q1.90.83	not relevant
Extension or protrusion of vascular dilation, aneurysms & dissection	to 978	not relevant	
- vascular dilation characteristic (DESCRIBE),	to 978	Q1.40.49	not relevant
no entry	to 978	not relevant	
977 @ Characteristics and severity of vascular dissection			
- acute,	to 978	Q1.40.47	not relevant
- chronic,	to 978	Q1.40.48	not relevant
- intact (non-ruptured),	to 978	Q1.40.45	not relevant
- ruptured,	to 978	Q1.40.46	not relevant
- calcified,	to 978	Q1.40.57	not relevant
- with thrombosis,	to 978	Q1.40.58	not relevant
- with thrombus extension into adjacent vessel,	to 3205	Q1.40.65	not relevant
- with thromboembolic event,	to 978	Q1.40.66	not relevant
- infected,	to 978	Q1.40.69	not relevant
- characteristics unknown or unspecified,	to 978	Q1.90.83	not relevant
- vascular dilation characteristic (DESCRIBE),	to 978	Q1.40.49	not relevant
no entry	to 978	not relevant	
978 @ Extension or protrusion of vascular dilation, aneurysms & dissection			
- with extension into coronary artery(ies),	to 467	Q1.40.52	not relevant
- with extension into aortic arch branch(es),	to 1	Q1.40.76	not relevant
- with extension into innominate (brachiocephalic) artery,	to 1	Q1.40.70	not relevant
- with extension into carotid artery(ies),	to 1	Q1.40.53	not relevant
- with extension into right carotid artery,	to 1	Q1.40.80	not relevant
- with extension into left carotid artery,	to 1	Q1.40.81	not relevant
- with extension into both carotid arteries,	to 1	Q1.40.82	not relevant
- with extension into subclavian artery(ies),	to 1	Q1.40.83	not relevant
- with extension into right subclavian artery,	to 1	Q1.40.71	not relevant
- with extension into left subclavian artery,	to 1	Q1.40.72	not relevant
- with extension into both subclavian arteries,	to 1	Q1.40.94	not relevant
- with extension into renal artery(ies),	to 1	Q1.40.54	not relevant
- with extension into right renal artery,	to 1	Q1.40.97	not relevant
- with extension into left renal artery,	to 1	Q1.40.96	not relevant
- with extension into both renal arteries,	to 1	Q1.40.95	not relevant
- with extension into coeliac mesenteric artery,	to 1	Q1.40.73	not relevant
- with extension into mesenteric artery(ies),	to 1	Q1.40.55	not relevant
- with extension into inferior mesenteric artery,	to 1	Q1.40.74	not relevant
- with extension into superior mesenteric artery,	to 1	Q1.40.75	not relevant
- with extension into multiple mesenteric arteries,	to 1	Q1.40.88	not relevant
- with extension into iliac artery(ies),	to 1	Q1.40.56	not relevant
- with extension into right iliac artery,	to 1	Q1.40.85	not relevant
- with extension into left iliac artery,	to 1	Q1.40.86	not relevant
- with extension into both iliac arteries,	to 1	Q1.40.87	not relevant
- with protrusion into left atrium,	to 1	Q1.40.59	not relevant
- with protrusion into pericardial cavity,	to 1	Q1.40.60	not relevant
- with protrusion into left ventricle,	to 1	Q1.40.61	not relevant
- without extension,	to 1	Q1.40.89	not relevant
Aetiology of aneurysms	to 697	not relevant	
Outcome related qualifiers	to 2813	not relevant	
no entry	to 1	not relevant	
980 @ Valve leaflet associated mass - qualifiers			
- blood cyst (angiomasolous),	to 1	Q1.85.71	not relevant
- pedunculated eversion (Lamb),	to 1	Q1.85.72	not relevant
- Lupus associated lesion,	to 1	Q1.85.73	not relevant
- tissue tag,	to 1	Q1.85.74	not relevant
no entry	to 1	not relevant	
982 @ Systemic hypertension Qualifiers			
- benign,	to 1	Q1.63.01	not relevant
- malignant,	to 1	Q1.63.02	not relevant
- non-renalvascular,	to 1	Q1.63.03	not relevant
- with renal complications,	to 1	Q1.63.04	not relevant
- with heart failure,	to 1	Q1.63.05	not relevant
- without heart failure,	to 1	Q1.63.06	not relevant
- with congestive heart failure,	to 1	Q1.63.07	not relevant
- without congestive heart failure,	to 1	Q1.63.08	not relevant
- with neurological complications,	to 1	Q1.63.09	not relevant
no entry	to 1	not relevant	

985 @ Drugs and toxic agents associated with cardiovascular disease

- alcohol,	to 1	Q1.87.09	not relevant
- amiodarone,	to 1	Q1.87.29	not relevant
- anabolic steroids,	to 1	Q1.87.01	not relevant
- antiarrhythmic drug,	to 1	Q1.87.30	not relevant
- antiarrhythmics,	to 1	Q1.87.19	not relevant
- antifibrinolytic drug,	to 1	Q1.87.20	not relevant
- antifibrinolytic drug: tranexamic acid,	to 1	Q1.87.21	not relevant
- antifibrinolytic drug: aminocaproic acid,	to 1	Q1.87.22	not relevant
- antifibrinolytic drug: aprotinin,	to 1	Q1.87.23	not relevant
- antiplatelet medication,	to 1	Q1.87.32	not relevant
- appetite suppressant drugs,	to 1	Q1.87.02	not relevant
- arsenic,	to 1	Q1.87.03	not relevant
- beta blocker,	to 1	Q1.87.13	not relevant
- calcium,	to 1	Q1.87.24	not relevant
- chemotherapeutic agents,	to 1	Q1.87.14	not relevant
- chloramphenicol,	to 1	Q1.87.10	not relevant
- cobalt,	to 1	Q1.87.04	not relevant
- cocaine,	to 1	Q1.87.05	not relevant
- ergotamine preparations,	to 1	Q1.87.15	not relevant
- heparin,	to 1	Q1.87.31	not relevant
- inotropic agent(s),	to 1	Q1.87.25	not relevant
- lead,	to 1	Q1.87.07	not relevant
- lithium,	to 1	Q1.87.06	not relevant
- narcotic drug,	to 1	Q1.87.16	not relevant
- over-the-counter "cold" medication,	to 1	Q1.87.17	not relevant
- parenteral nutrition,	to 1	Q1.87.26	not relevant
- penicillin,	to 1	Q1.87.11	not relevant
- potassium,	to 1	Q1.87.27	not relevant
- radiation,	to 1	Q1.87.08	not relevant
- sulphonamides,	to 1	Q1.87.12	not relevant
- vasoconstriction causing drug,	to 1	Q1.87.18	not relevant
- warfarin type medication,	to 1	Q1.87.28	not relevant
no entry	to 1	not relevant	

987 @ Foreign Bodies Involved in Cardiothoracic Pathology or Trauma - qualifiers

- peanut,	to 1	Q1.69.01	not relevant
- coin,	to 1	Q1.69.02	not relevant
- battery,	to 1	Q1.69.03	not relevant
- food,	to 1	Q1.69.04	not relevant
- bullet,	to 1	Q1.69.05	not relevant
- knife,	to 1	Q1.69.06	not relevant
no entry	to 1	not relevant	

989 @ Occupations associated with cardiovascular disease

- plastics industry: vinyl chloride exposure,	to 1	Q1.78.01	
- vibrating tools (white finger),	to 1	Q1.78.02	
- occupation unknown or unspecified,	to 1	Q1.78.19	
no entry	to 1	not relevant	

990 @ Gestational age

- 1st trimester,	to 1	Q1.54.01	not relevant
- 2nd trimester,	to 1	Q1.54.02	not relevant
- 3rd trimester,	to 1	Q1.54.03	not relevant
- 6 weeks gestation,	to 1	Q1.54.04	not relevant
- 7 weeks gestation,	to 1	Q1.54.05	not relevant
- 8 weeks gestation,	to 1	Q1.54.06	not relevant
- 9 weeks gestation,	to 1	Q1.54.07	not relevant
- 10 weeks gestation,	to 1	Q1.54.08	not relevant
- 11 weeks gestation,	to 1	Q1.54.09	not relevant
- 12 weeks gestation,	to 1	Q1.54.10	not relevant
- 13 weeks gestation,	to 1	Q1.54.11	not relevant
- 14 weeks gestation,	to 1	Q1.54.12	not relevant
- 15 weeks gestation,	to 1	Q1.54.13	not relevant
- 16 weeks gestation,	to 1	Q1.54.14	not relevant
- 17 weeks gestation,	to 1	Q1.54.15	not relevant
- 18 weeks gestation,	to 1	Q1.54.16	not relevant
- 19 weeks gestation,	to 1	Q1.54.17	not relevant
- 20 weeks gestation,	to 1	Q1.54.18	not relevant
- 21 weeks gestation,	to 1	Q1.54.19	not relevant
- 22 weeks gestation,	to 1	Q1.54.20	not relevant
- 23 weeks gestation,	to 1	Q1.54.21	not relevant
- 24 weeks gestation,	to 1	Q1.54.22	not relevant
- 25 weeks gestation,	to 1	Q1.54.23	not relevant
- 26 weeks gestation,	to 1	Q1.54.24	not relevant
- 27 weeks gestation,	to 1	Q1.54.25	not relevant
- 28 weeks gestation,	to 1	Q1.54.26	not relevant
- 29 weeks gestation,	to 1	Q1.54.27	not relevant
- 30 weeks gestation,	to 1	Q1.54.28	not relevant
- 31 weeks gestation,	to 1	Q1.54.29	not relevant
- 32 weeks gestation,	to 1	Q1.54.30	not relevant
- 33 weeks gestation,	to 1	Q1.54.31	not relevant
- 34 weeks gestation,	to 1	Q1.54.32	not relevant
- 35 weeks gestation,	to 1	Q1.54.33	not relevant
- 36 weeks gestation,	to 1	Q1.54.34	not relevant
- 37 weeks gestation,	to 1	Q1.54.35	not relevant
- 38 weeks gestation,	to 1	Q1.54.36	not relevant
- 39 weeks gestation,	to 1	Q1.54.37	not relevant
- 40 weeks gestation,	to 1	Q1.54.38	not relevant
- 41 weeks gestation,	to 1	Q1.54.39	not relevant
- 42 weeks gestation,	to 1	Q1.54.40	not relevant
- 43 weeks gestation,	to 1	Q1.54.41	not relevant
- unknown or unspecified gestational age,	to 1	Q1.54.49	not relevant
no entry	to 1	not relevant	

991 @ Fetal valvar abnormality qualifiers

- trivial,	to 990	Q1.40.00	not relevant
- mild,	to 990	Q1.40.01	not relevant
- mild-moderate,	to 990	Q1.40.02	not relevant
- moderate,	to 990	Q1.40.03	not relevant
- moderate-severe,	to 990	Q1.40.04	not relevant
- severe,	to 990	Q1.40.05	not relevant
- holosystolic,	to 990	Q1.40.32	not relevant
- not holosystolic,	to 990	Q1.40.33	not relevant
- holosystolic with atrial enlargement,	to 990	Q1.40.34	not relevant
- holosystolic without atrial enlargement,	to 990	Q1.40.35	not relevant
- ruled out,	to 990	Q1.90.57	not relevant
- new onset,	to 990	Q1.40.31	not relevant
- severity unknown,	to 990	Q1.90.12	not relevant
Additional stenosis qualifiers	to 960	not relevant	
Additional regurgitation qualifiers	to 963	not relevant	
no entry	to 990	not relevant	

END OF SECTION

1000 Cardiothoracic operations and interventions

Operation-reoperation status and bypass details	to 1001	not relevant
Access to cardiovascular system & intrathoracic organs, approaches & cardiac incisions	to 1780	not relevant
Great vein and coronary sinus procedures	to 1004	not relevant
Atrial and atrial septal procedures	to 1020	not relevant
Atrioventricular valvar and atrioventricular septal defect procedures	to 1028	not relevant
Ventricular, ventricle outflow tract & ventricle septal procedures	to 1060	not relevant
Atrial valvar and great arterial procedures	to 1110	not relevant
Falot, Falot type double outlet right ventricle & pulmonary atresia procedures	to 1200	not relevant
Transposition & non-Falot type double outlet ventricle procedures	to 1215	not relevant
Procedures for functionally univentricular hearts - Fontan, TCPC, Norwood	to 1230	not relevant
Conduit and shunt construction procedures	to 1250	not relevant
Coronary arterial procedures	to 1280	not relevant
Arrhythmia and pacemaker procedures	to 1300	not relevant
Transplantation of heart and/or lungs	to 1350	not relevant
Pericardial, tumour, trauma and miscellaneous procedures	to 1380	not relevant
Transluminal interventional & diagnostic catheter procedures and techniques	to 1400	not relevant
Fetal intervention procedures	to 1530	not relevant
Vascular access procedures	to 1550	not relevant
Hybrid procedures: combined surgical & transluminal	to 1560	not relevant
Postoperative and cardiac support procedures & therapies	to 1565	not relevant
Interventional qualifier terms: materials and sizes	to 1600	not relevant
Thoracic, pleural, tracheal, bronchial, lung & gastro-oesophageal procedures	to 4200	not relevant
To Table of contents	to 1	not relevant
To Congenital Heart Defect Menu	to 5	not relevant
To Hereditary, Fetal, Neonatal & Noncardiac Anomaly Menu	to 500	not relevant
To Acquired Menu	to 600	not relevant
To Functional Status; Signs, Symptoms and Investigations Menu	to 740	not relevant
To Arrhythmia Menu	to 800	not relevant
To Complications Menu	to 1800	not relevant

1001 Operation-reoperation status and bypass details

Primary operation,	to 1000	12.43.01	no equivalent	
Reoperation,	to 1000	12.43.00	12.43.00	Reoperation,
First reoperation,	to 1000	12.43.02	12.43.00	Reoperation,
Second reoperation,	to 1000	12.43.03	12.43.00	Reoperation,
Third reoperation,	to 1000	12.43.04	12.43.00	Reoperation,
Fourth reoperation,	to 1000	12.43.05	12.43.00	Reoperation,
Unplanned reoperation during current admission,	to 1000	12.43.06	12.43.06	Unplanned reoperation during current admission,
Cardiopulmonary bypass used during procedure,	to 1003	12.00.90	12.00.90	Cardiopulmonary bypass used during procedure,
Cardiopulmonary bypass not used during procedure,	to 1000	12.00.91	12.00.91	Cardiopulmonary bypass not used during procedure,
Cardiopulmonary bypass for noncardiac lesion,	to 1003	12.00.92	12.00.92	Cardiopulmonary bypass for noncardiac lesion,
Infow occlusion (no CPB) used during procedure,	to 1000	12.00.93	12.00.91	Cardiopulmonary bypass not used during procedure,
Left heart partial bypass,	to 1003	12.00.94	12.00.90	Cardiopulmonary bypass used during procedure,
Systemic-pulmonary shunt used during procedure,	to 1000	12.00.95	no equivalent	
Cardiopulmonary bypass or shunt bypass not used during procedure,	to 1000	12.00.96	12.00.91	Cardiopulmonary bypass not used during procedure,
Reoperation for residual or recurrent lesion,	to 1000	12.00.97	no equivalent	
Shunt bypass (not cardiopulmonary bypass) used during procedure,	to 1000	12.00.98	no equivalent	
Biventricular repair,	to 1000	12.43.21	no equivalent	
Biventricular repair with extracardiac conduit,	to 1000	12.43.22	no equivalent	
Biventricular repair without extracardiac conduit,	to 1000	12.43.23	no equivalent	
Functionally univentricular repair,	to 1000	12.43.24	no equivalent	
Palliative procedure,	to 1000	12.43.25	12.43.25	Palliative procedure,
No previous cardiac surgery,	to 1000	12.43.26	no equivalent	
Valve leaflet(s) repair (valvoplasty),	to 1000	12.43.50	no equivalent	
Septal defect closure,	to 1000	12.43.51	no equivalent	
Generic and postprocedural status qualifiers	to 953	not relevant		
Cardiopulmonary bypass qualifiers including circulatory arrest details	to 1003	not relevant		

1003 @ Cardiopulmonary bypass qualifiers including circulatory arrest details

- with circulatory arrest,	to 1000	Q5.41.01	not relevant	
- with circulatory arrest: complete,	to 1000	Q5.41.20	not relevant	
- with circulatory arrest to brain,	to 1000	Q5.41.21	not relevant	
- with circulatory arrest to brain with cardiac perfusion,	to 1000	Q5.41.22	not relevant	
- with circulatory arrest with descending aorta perfusion,	to 1000	Q5.41.23	not relevant	
- with circulatory arrest to brain with cardiac + descending aorta perfusion,	to 1000	Q5.41.24	not relevant	
- without circulatory arrest,	to 1000	Q5.41.02	not relevant	
- without circulatory arrest: arterial cannula into innominate artery,	to 1000	Q5.41.03	not relevant	
- without circulatory arrest: arterial cannula into carotid artery,	to 1000	Q5.41.07	not relevant	
- without circulatory arrest: arterial cannula into right carotid artery,	to 1000	Q5.41.08	not relevant	
- without circulatory arrest: arterial cannula into left carotid artery,	to 1000	Q5.41.09	not relevant	
- without circulatory arrest: 2 arterial cannulas: aortic arch branch & descending aorta,	to 1000	Q5.41.10	not relevant	
- without circulatory arrest: retrograde cerebral perfusion,	to 1000	Q5.41.11	not relevant	
- without circulatory arrest: retrograde cerebral perfusion via superior caval vein (SVC),	to 1000	Q5.41.12	not relevant	
- without circulatory arrest: arterial cannula into open end of shunt (Asou-Pigúla),	to 1000	Q5.41.04	not relevant	
- without circulatory arrest: arterial cannulas into open end of shunt & descending aorta (Imoto),	to 1000	Q5.41.05	not relevant	
- without circulatory arrest: arterial cannulas into arterial duct (head) & right pulmonary artery to shunt (body) (Tchervenkov),	to 1000	Q5.41.06	not relevant	
- modified ultrafiltration used,	to 1000	Q5.41.13	not relevant	
no entry	to 1000	not relevant		

_____ End of branch _____

1004 Great vein and coronary sinus procedures

Procedures for totally anomalous pulmonary venous connections	to 1005	not relevant		
Procedures for partially anomalous pulmonary venous connection(s)	to 1007	not relevant		
Additional procedures associated with anomalous pulmonary venous operations	to 1009	not relevant		
Pulmonary venous pathway & pulmonary vein procedures	to 1008	not relevant		
Systemic great vein & systemic venous pathway procedures	to 1010	not relevant		
Procedures involving the coronary sinus and veins	to 1015	not relevant		
Caval vein to pulmonary artery anastomoses (Glenn)	to 1257	not relevant		
Great vein transluminal transcatheter procedures	to 1415	not relevant		
Approach to repair cardiac lesions - qualifiers	to 1787	not relevant		
Anomalous vein ligation,	to 1000	12.70.10	12.00.30	Systemic vein procedure,
Anomalous pulmonary venous connection repair: creation of neo-left atrium with pericardial roof (pericardial well - sutureless technique),	to 1000	12.60.10	12.00.20	Pulmonary vein procedure,
Venovenous collateral occlusion,	to 1660	12.70.06	12.00.30	Systemic vein procedure,
Bronchial collateral occlusion,	to 1660	12.70.07	12.00.30	Systemic vein procedure,

1005 Procedures for totally anomalous pulmonary venous connections

Totally anomalous pulmonary venous connection repair,	to 1006	12.00.00	12.00.00	Totally anomalous pulmonary venous connection repair,
Totally anomalous pulmonary venous connection repair: supracardiac,	to 1006	12.60.01	12.00.00	Totally anomalous pulmonary venous connection repair,
Totally anomalous pulmonary venous connection repair: intracardiac,	to 1009	12.60.02	12.00.00	Totally anomalous pulmonary venous connection repair,
Totally anomalous pulmonary venous connection repair: intracardiac - coronary sinus,	to 1006	12.60.05	12.00.00	Totally anomalous pulmonary venous connection repair,
Totally anomalous pulmonary venous connection repair: intracardiac - right atrial,	to 1009	12.60.06	12.00.00	Totally anomalous pulmonary venous connection repair,
Totally anomalous pulmonary venous connection repair: intracardiac - right atrial using interatrial baffle,	to 1009	12.60.08	12.00.00	Totally anomalous pulmonary venous connection repair,
Totally anomalous pulmonary venous connection repair: intracardiac - right atrial using atrial septum translocation,	to 1009	12.60.09	12.00.00	Totally anomalous pulmonary venous connection repair,
Totally anomalous pulmonary venous connection repair: intracardiac,	to 1006	12.60.03	12.00.00	Totally anomalous pulmonary venous connection repair,
Totally anomalous pulmonary venous connection repair: mixed,	to 1006	12.60.04	12.00.00	Totally anomalous pulmonary venous connection repair,

1006 Procedure details for totally anomalous pulmonary venous connections

Totally anomalous pulmonary venous connection repair: direct anastomosis of pulmonary venous confluence to left atrium,	to 1009	12.00.61	12.00.00	Totally anomalous pulmonary venous connection repair,
Totally anomalous pulmonary venous connection repair: anastomosis of pulmonary venous confluence to left atrium via connecting vein,	to 1009	12.00.62	12.00.00	Totally anomalous pulmonary venous connection repair,
Totally anomalous pulmonary venous connection repair: direct anastomosis of pulmonary venous confluence & connecting vein to left atrium,	to 1009	12.00.63	12.00.00	Totally anomalous pulmonary venous connection repair,
Totally anomalous pulmonary venous connection repair using interatrial baffle,	to 1009	12.00.64	12.00.00	Totally anomalous pulmonary venous connection repair,
Totally anomalous pulmonary venous connection repair: coronary sinus cutback to oval fossa & interatrial baffle,	to 1009	12.00.65	12.00.00	Totally anomalous pulmonary venous connection repair,
Totally anomalous pulmonary venous connection repair: coronary sinus cutback to oval fossa & direct anastomosis of pulmonary venous confluence to left atrium,	to 1009	12.60.07	12.00.00	Totally anomalous pulmonary venous connection repair,
Totally anomalous pulmonary venous connection repair: unroofing coronary sinus & closing coronary sinus + interatrial communication (ASD) windows,	to 1009	12.00.66	12.00.00	Totally anomalous pulmonary venous connection repair,
Totally anomalous pulmonary venous connection repair using interatrial baffle + connection of superior caval vein (SVC) to right atrial appendage,	to 1009	12.00.67	12.00.00	Totally anomalous pulmonary venous connection repair,
Additional procedures associated with anomalous pulmonary venous operations	to 1009	not relevant		

1007 Repair of partially anomalous pulmonary venous connection

Partially anomalous pulmonary venous connection repair,	to 1009	12.00.02	12.00.02	Partially anomalous pulmonary venous connection repair,
Scimitar syndrome (partially anomalous pulmonary venous connection) repair,	to 1009	12.00.17	12.00.17	Scimitar syndrome (partially anomalous pulmonary venous connection) repair,
Partially anomalous pulmonary venous connection repair: interatrial baffle redirection to left atrium,	to 1009	12.00.71	12.00.02	Partially anomalous pulmonary venous connection repair,
Partially anomalous pulmonary venous connection repair: interatrial baffle redirection to left atrium & ASD patch,	to 1009	12.60.15	12.00.02	Partially anomalous pulmonary venous connection repair,

Partially anomalous pulmonary venous connection repair: interatrial baffle redirection to left atrium & patches to ASD + superior caval vein (SVC).	to 1009	12.60.16	12.00.02	Partially anomalous pulmonary venous connection repair,
Partially anomalous pulmonary venous connection repair using roofing patch to create right to left atrium tunnel.	to 1009	12.00.72	12.00.02	Partially anomalous pulmonary venous connection repair,
Partially anomalous pulmonary venous connection repair: anastomosis of pulmonary venous confluence to left atrium via connecting vein.	to 1009	12.00.73	12.00.02	Partially anomalous pulmonary venous connection repair,
Partially anomalous pulmonary venous connection repair: direct anomalous vein anastomosis to left atrium.	to 1009	12.00.74	12.00.02	Partially anomalous pulmonary venous connection repair,
Partially anomalous pulmonary venous connection repair: direct anomalous vein anastomosis to left atrial appendage.	to 1009	12.00.75	12.00.02	Partially anomalous pulmonary venous connection repair,
Partially anomalous pulmonary venous connection repair: direct anomalous vein anastomosis to right atrium & baffled to left atrium.	to 1009	12.00.76	12.00.02	Partially anomalous pulmonary venous connection repair,
Partially anomalous pulmonary venous connection repair: baffle redirection to left atrium & systemic vein reimplanted in right atrium.	to 1009	12.00.77	12.00.78	Partially anomalous pulmonary venous connection repair: baffle redirection to left atrium & systemic vein translocated to right atrial appendage (Warden).
Partially anomalous pulmonary venous connection repair: baffle redirection to left atrium & systemic vein translocated to right atrial appendage (Warden).	to 1009	12.00.78	12.00.78	Partially anomalous pulmonary venous connection repair: baffle redirection to left atrium & systemic vein translocated to right atrial appendage (Warden).
Partially anomalous pulmonary venous connection repair: unroofing coronary sinus & patch closure of interatrial communications.	to 1009	12.60.13	12.00.02	Partially anomalous pulmonary venous connection repair,
Partially anomalous pulmonary venous connection repair: unroofing coronary sinus & baffle closure of interatrial communication.	to 1009	12.60.19	12.00.02	Partially anomalous pulmonary venous connection repair,
Partially anomalous pulmonary venous connection repair: baffle redirection to left atrium & superior caval vein (SVC) anastomosis with right atrial appendage.	to 1009	12.60.14	12.00.02	Partially anomalous pulmonary venous connection repair,
Partially anomalous pulmonary venous connection repair: baffle redirection to left atrium & superior caval vein (SVC) anastomosis with right atrial appendage & ASD patch.	to 1009	12.60.17	12.00.02	Partially anomalous pulmonary venous connection repair,
Partially anomalous pulmonary venous connection left unrepaired.	to 1009	12.00.80	No equivalent	
Partially anomalous pulmonary venous connection repair by interatrial septum translocation.	to 1009	12.60.18	12.00.02	Partially anomalous pulmonary venous connection repair,
Additional procedures associated with anomalous pulmonary vein operations	to 1009	not relevant		
1008 Pulmonary venous pathway (post Senning-Mustard) & pulmonary vein procedures				
Pulmonary venous pathway procedure.	to 1000	12.60.50	12.29.52	Pulmonary venous pathway procedure (post Senning-Mustard),
Pulmonary venous pathway procedure (post Senning-Mustard).	to 1000	12.29.52	12.29.52	Pulmonary venous pathway procedure (post Senning-Mustard),
Pulmonary venous pathway repair (post Senning-Mustard).	to 1000	12.29.44	12.29.52	Pulmonary venous pathway procedure (post Senning-Mustard),
Pulmonary venous pathway patch enlargement.	to 1608	12.60.32	12.29.52	Pulmonary venous pathway procedure (post Senning-Mustard),
Pulmonary venous atrium enlargement.	to 1000	12.23.73	12.29.52	Pulmonary venous pathway procedure (post Senning-Mustard),
Pulmonary vein procedure.	to 1681	12.00.20	12.00.20	Pulmonary vein procedure,
Pulmonary venous stenosis repair.	to 1681	12.00.03	12.00.03	Pulmonary vein stenosis repair,
Pulmonary venous stenosis repair with patch.	to 1681	12.60.30	12.00.03	Pulmonary vein stenosis repair,
Pulmonary venous stenosis repair using pericardial well (sutureless with neo-atrium) technique.	to 1681	12.60.31	12.00.03	Pulmonary vein stenosis repair,
Pulmonary venous stenosis repair using pericardial well (sutureless with neo-atrium) technique (Lacour-Gayet).	to 1681	12.60.39	12.00.03	Pulmonary vein stenosis repair,
Pulmonary venous stenosis repair: endovenectomy.	to 1681	12.60.38	12.00.03	Pulmonary vein stenosis repair,
1009 Additional procedures associated with anomalous pulmonary vein operations				
Procedure involving anomalous pulmonary vein.	to 1000	12.60.35	12.00.20	Pulmonary vein procedure,
Relief of anastomotic stricture between pulmonary venous confluence & left atrium.	to 1000	12.00.69	12.00.20	Pulmonary vein procedure,
Anomalous connecting vein ligation.	to 1000	12.60.11	12.00.20	Pulmonary vein procedure,
Anomalous pulmonary vein ligation.	to 1000	12.60.12	12.00.20	Pulmonary vein procedure,
Ligation of ascending vertical vein.	to 1604	12.60.36	12.00.20	Pulmonary vein procedure,
Ligation & division of ascending vertical vein.	to 1604	12.00.11	12.00.20	Pulmonary vein procedure,
Banding of ascending vertical vein.	to 1645	12.00.12	12.00.20	Pulmonary vein procedure,
No procedure to ascending vertical vein.	to 1000	12.00.13	No equivalent	
Ligation of descending vertical vein.	to 1604	12.60.37	12.00.20	Pulmonary vein procedure,
Ligation & division of descending vertical vein.	to 1604	12.00.14	12.00.20	Pulmonary vein procedure,
Banding of descending vertical vein.	to 1645	12.00.15	12.00.20	Pulmonary vein procedure,
No procedure to descending vertical vein.	to 1000	12.00.16	No equivalent	
Additional anomalous pulmonary vein repaired.	to 94	12.60.51	12.00.20	Pulmonary vein procedure,
Additional anomalous pulmonary vein left unrepaired.	to 94	12.60.52	No equivalent	
Procedures to create-enlarge an interatrial communication	to 1024	not relevant		
Materials for atrial baffles	to 1608	not relevant		
Pulmonary vein involved in procedures - qualifiers	to 94	not relevant		
1010 Systemic great veins & systemic venous pathway procedures				
Superior caval vein (SVC) procedures	to 1011	not relevant		
Inferior caval vein (IVC) procedures	to 1013	not relevant		
Hepatic vein procedures	to 1016	not relevant		
Systemic vein procedures.	to 1000	12.00.30	12.00.30	Systemic vein procedure.
Non-caval systemic vein procedure.	to 3220	12.70.20	12.00.30	Systemic vein procedure.
Non-caval systemic vein repair.	to 3220	12.70.29	12.00.30	Systemic vein procedure.
Non-caval systemic vein repair with patch.	to 3220	12.70.30	12.00.30	Systemic vein procedure.
Insertion of valve in non-caval systemic vein.	to 1620	12.70.22	12.00.30	Systemic vein procedure.
Non-caval systemic vein conduit procedure.	to 1620	12.70.27	12.00.30	Systemic vein procedure.
Non-caval systemic vein reimplantation procedure.	to 3220	12.70.28	12.00.30	Systemic vein procedure.
Anomalous systemic venous connection repair.	to 1000	12.00.81	12.00.81	Anomalous systemic venous connection repair,
Anomalous systemic venous connection repair with atrial baffle.	to 1000	12.00.82	12.00.81	Anomalous systemic venous connection repair,
Anomalous systemic vein ligation.	to 1000	12.70.21	12.00.30	Systemic vein procedure.
Systemic venous stenosis repair.	to 1000	12.00.83	12.00.83	Systemic venous stenosis repair,
Systemic venous pathway procedure.	to 1000	12.60.60	12.00.29	Systemic venous pathway procedure (post Senning-Mustard),
Systemic venous pathway procedure (post Senning-Mustard).	to 1000	12.00.29	12.00.29	Systemic venous pathway procedure (post Senning-Mustard),
Systemic venous pathway repair (post Senning-Mustard).	to 1608	12.00.31	12.00.29	Systemic venous pathway procedure (post Senning-Mustard),
Systemic venous pathway enlargement.	to 1608	12.00.84	12.00.29	Systemic venous pathway procedure (post Senning-Mustard),
Azygos vein procedure.	to 1000	12.70.23	12.00.30	Systemic vein procedure.
Ligation/division of azygos vein.	to 1604	12.00.34	12.00.30	Systemic vein procedure.
Azygos vein repair.	to 1000	12.70.24	12.00.30	Systemic vein procedure.
Hemiazygos vein procedure.	to 1000	12.70.25	12.00.30	Systemic vein procedure.
Ligation/division of hemiazygos vein.	to 1604	12.00.35	12.00.30	Systemic vein procedure.
Hemiazygos vein repair.	to 1000	12.70.26	12.00.30	Systemic vein procedure.
1011 Superior caval vein (SVC) procedures				
Superior caval vein (SVC) procedure.	to 1000	12.00.39	12.00.39	Superior caval vein (SVC) procedure.
Superior caval vein (SVC) repair.	to 1000	12.29.41	12.00.39	Superior caval vein (SVC) procedure.
Superior caval vein (SVC) repair with patch.	to 1608	12.29.54	12.00.39	Superior caval vein (SVC) procedure.
Superior caval vein (SVC) repair using conduit.	to 1630	12.29.55	12.00.39	Superior caval vein (SVC) procedure.
Insertion of valve in superior caval vein (SVC).	to 1619	12.30.18	12.00.39	Superior caval vein (SVC) procedure.
Removal of obstruction from superior caval vein (SVC).	to 1655	12.29.69	12.00.39	Superior caval vein (SVC) procedure.
Removal of thrombus from superior caval vein (SVC).	to 1655	12.29.72	12.00.39	Superior caval vein (SVC) procedure.
Anomalous superior caval vein repair.	to 1000	12.29.75	12.00.39	Superior caval vein (SVC) procedure.
Right superior caval vein procedure.	to 1000	12.70.90	12.00.39	Superior caval vein (SVC) procedure.
Left superior caval vein procedures	to 1012	not relevant		
Ligation of right superior caval vein (SVC).	to 1604	12.29.60	12.00.39	Superior caval vein (SVC) procedure.
Division of right superior caval vein (SVC) to systemic venous atrium.	to 1000	12.00.38	12.00.39	Superior caval vein (SVC) procedure.
Right superior caval vein (SVC) reimplanted in systemic venous atrium.	to 1000	12.29.56	12.00.39	Superior caval vein (SVC) procedure.
Right superior caval vein (SVC) reimplanted in systemic venous atrium: direct.	to 1000	12.29.61	12.00.39	Superior caval vein (SVC) procedure.
Right superior caval vein (SVC) reimplanted in systemic venous atrium using conduit.	to 1630	12.29.62	12.00.39	Superior caval vein (SVC) procedure.
Right superior caval vein (SVC) reimplanted in innominate (brachiocephalic) vein.	to 1000	12.70.80	12.00.39	Superior caval vein (SVC) procedure.
Right superior caval vein (SVC) reimplanted in innominate (brachiocephalic) vein: direct.	to 1000	12.70.81	12.00.39	Superior caval vein (SVC) procedure.
Right superior caval vein (SVC) reimplanted in innominate (brachiocephalic) vein using conduit.	to 1630	12.70.82	12.00.39	Superior caval vein (SVC) procedure.
Right superior caval vein (SVC) redirected to left superior caval vein (SVC).	to 1000	12.29.63	12.00.39	Superior caval vein (SVC) procedure.
Right superior caval vein (SVC) redirected to left superior caval vein (SVC): direct.	to 1000	12.29.64	12.00.39	Superior caval vein (SVC) procedure.
Right superior caval vein (SVC) redirected to left superior caval vein (SVC) using conduit.	to 1630	12.29.65	12.00.39	Superior caval vein (SVC) procedure.
1012 Procedures involving left superior caval vein				
Left superior caval vein procedure.	to 1000	12.70.91	12.00.39	Superior caval vein (SVC) procedure.
Ligation of left superior caval vein (SVC).	to 1604	12.00.37	12.00.39	Superior caval vein (SVC) procedure.
Division of left superior caval vein (SVC) to systemic venous atrium with interatrial baffle.	to 1608	12.00.40	12.00.39	Superior caval vein (SVC) procedure.
Left superior caval vein (SVC) reimplanted in systemic venous atrium.	to 1000	12.29.57	12.00.39	Superior caval vein (SVC) procedure.
Left superior caval vein (SVC) reimplanted in systemic venous atrium: direct.	to 1000	12.29.66	12.00.39	Superior caval vein (SVC) procedure.
Left superior caval vein (SVC) reimplanted in systemic venous atrium using conduit.	to 1630	12.29.67	12.00.39	Superior caval vein (SVC) procedure.
Left superior caval vein (SVC) reimplanted in innominate (brachiocephalic) vein.	to 1000	12.70.83	12.00.39	Superior caval vein (SVC) procedure.
Left superior caval vein (SVC) reimplanted in innominate (brachiocephalic) vein: direct.	to 1000	12.70.84	12.00.39	Superior caval vein (SVC) procedure.
Left superior caval vein (SVC) reimplanted in innominate (brachiocephalic) vein using conduit.	to 1630	12.70.85	12.00.39	Superior caval vein (SVC) procedure.
Left superior caval vein (SVC) redirected to right superior caval vein (SVC).	to 1000	12.29.68	12.00.39	Superior caval vein (SVC) procedure.
Left superior caval vein (SVC) redirected to right superior caval vein (SVC): direct.	to 1000	12.29.58	12.00.39	Superior caval vein (SVC) procedure.
Left superior caval vein (SVC) redirected to right superior caval vein (SVC) using conduit.	to 1630	12.29.59	12.00.39	Superior caval vein (SVC) procedure.
1013 Inferior caval vein (IVC) procedures				
Inferior caval vein (IVC) procedure.	to 1000	12.00.42	12.00.42	Inferior caval vein (IVC) procedure.
Inferior caval vein (IVC) repair.	to 1000	12.29.42	12.00.42	Inferior caval vein (IVC) procedure.
Inferior caval vein (IVC) repair with patch.	to 1608	12.00.45	12.00.42	Inferior caval vein (IVC) procedure.
Inferior caval vein (IVC) repair with membrane excision.	to 1000	12.29.48	12.00.42	Inferior caval vein (IVC) procedure.
Inferior caval vein (IVC) redirected to systemic venous atrium.	to 1000	12.00.47	12.00.42	Inferior caval vein (IVC) procedure.
Inferior caval vein (IVC) repair using conduit.	to 1630	12.00.48	12.00.42	Inferior caval vein (IVC) procedure.
Anomalous inferior caval vein repair.	to 1000	12.29.76	12.00.42	Inferior caval vein (IVC) procedure.
Inferior caval vein (IVC) reimplantation.	to 1000	12.00.49	12.00.42	Inferior caval vein (IVC) procedure.
Insertion of valve in inferior caval vein (IVC).	to 1619	12.30.19	12.00.42	Inferior caval vein (IVC) procedure.
Removal of obstruction from inferior caval vein (IVC).	to 1655	12.29.70	12.00.42	Inferior caval vein (IVC) procedure.
Removal of thrombus from inferior caval vein (IVC).	to 1655	12.29.71	12.00.42	Inferior caval vein (IVC) procedure.

1015 Procedures involving coronary sinus and veins

Coronary sinus procedure,	to 1000	12.00.50	12.00.50	Coronary sinus procedure,
Coronary sinus interatrial communication (ASD) repair,	to 1000	12.00.55	12.00.55	Coronary sinus interatrial communication (ASD) repair,
Unroofed coronary sinus repair to create tunnel (roofing),	to 1608	12.00.51	12.00.55	Coronary sinus interatrial communication (ASD) repair,
Unroofed coronary sinus repair to create tunnel (roofing) by direct suture,	to 1000	12.30.81	12.00.55	Coronary sinus interatrial communication (ASD) repair,
Unroofed coronary sinus repair to create tunnel (roofing) with patch,	to 1608	12.30.82	12.00.55	Coronary sinus interatrial communication (ASD) repair,
Coronary sinus interatrial communication (ASD) closure with patch,	to 1608	12.00.52	12.00.55	Coronary sinus interatrial communication (ASD) repair,
Coronary sinus interatrial communication (ASD) closure with direct suture,	to 1603	12.00.60	12.00.55	Coronary sinus interatrial communication (ASD) repair,
Unroofed coronary sinus closure with left superior caval vein (SVC) ligation,	to 1000	12.00.53	12.00.55	Coronary sinus interatrial communication (ASD) repair,
Unroofed coronary sinus closure with right superior caval vein (SVC) ligation,	to 1000	12.00.58	12.00.55	Coronary sinus interatrial communication (ASD) repair,
Procedure to relieve coronary sinus obstruction,	to 1000	12.00.54	12.00.50	Coronary sinus procedure,
Coronary sinus orifice stenosis relief,	to 1000	12.30.83	12.00.50	Coronary sinus procedure,
Coronary sinus orifice stenosis relief by unroofing coronary sinus,	to 1000	12.30.84	12.00.50	Coronary sinus procedure,
Coronary sinus orifice remodelling procedure,	to 1000	12.30.89	12.00.50	Coronary sinus procedure,
Coronary sinus orifice patch enlargement,	to 1608	12.30.90	12.00.50	Coronary sinus procedure,
Coronary sinus directed to right atrium,	to 1000	12.00.57	12.00.50	Coronary sinus procedure,
Coronary sinus directed to left atrium,	to 1000	12.00.56	12.00.50	Coronary sinus procedure,
Coronary sinus directed to pulmonary venous atrium,	to 1000	12.30.86	12.00.50	Coronary sinus procedure,
Coronary sinus directed to systemic venous atrium,	to 1000	12.30.87	12.00.50	Coronary sinus procedure,
Coronary sinus unroofing,	to 1000	12.30.85	12.00.50	Coronary sinus procedure,
Procedure involving coronary vein(s),	to 1000	12.30.88	12.00.50	Coronary sinus procedure,

1016 Procedures involving hepatic veins

Hepatic vein procedure,	to 1000	12.70.00	12.00.30	Systemic vein procedure,
Hepatic venous return directed to right-sided atrium,	to 1000	12.70.01	12.00.30	Systemic vein procedure,
Hepatic venous return directed to left-sided atrium,	to 1000	12.70.02	12.00.30	Systemic vein procedure,
Hepatic venous return directed to left pulmonary artery,	to 1000	12.70.03	12.00.30	Systemic vein procedure,
Hepatic venous return directed to right pulmonary artery,	to 1000	12.70.04	12.00.30	Systemic vein procedure,
Exclusion of hepatic venous return from total cavopulmonary connection,	to 1000	12.70.05	12.00.30	Systemic vein procedure,

End of branch

1020 Atrial and atrial septum procedures

Atrial and atrial septal transluminal/transcatheter procedures	to 1420	not relevant		
Right atrial procedures	to 1021	not relevant		
Left atrial procedures	to 1022	not relevant		
Procedures to close an interatrial communication	to 1023	not relevant		
Procedures to create/enlarge an interatrial communication	to 1024	not relevant		
Atrial inversion procedures	to 1025	not relevant		
Interatrial communication (ASD) closure takedown procedures	to 1027	not relevant		
Fenestration procedures for Fontan-type connections	to 1233	not relevant		
Procedures to close or partially close (reduce) a fenestration for Fontan type procedures	to 1234	not relevant		
Interatrial communication left open,	to 1000	12.01.80	12.01.80	Interatrial communication left open,
Patent oval foramen (PFO) left open,	to 1000	12.01.81	12.01.80	Interatrial communication left open,
Atrial septal defect (ASD) secundum left open,	to 1000	12.01.82	12.01.80	Interatrial communication left open,
Atrial septal procedure,	to 1000	12.01.50	12.32.21	Cardiac procedure,
Atrial septal stent removal,	to 1000	12.60.27	12.32.21	Cardiac procedure,
Procedure involving atrium,	to 1000	12.01.51	12.32.21	Cardiac procedure,
Atrial baffle procedure,	to 1000	12.01.57	12.01.57	Atrial baffle procedure,
Atrial septal translocation procedure,	to 1000	12.60.42	12.01.22	Atrial septation procedure,
Atioplasty,	to 1000	12.60.28	12.32.21	Cardiac procedure,

1021 Right atrial procedures

Right atrial procedure,	to 1000	12.01.60	12.01.60	Right atrial procedure,
Right atrial lesion excision,	to 1000	12.01.61	12.01.60	Right atrial procedure,
Right atrial myxoma excision,	to 1000	12.01.67	12.32.10	Heart tumour resection,
Right atrial vegetation excision,	to 1000	12.01.62	12.32.20	Removal of cardiac vegetations,
Right atrial thrombus removal,	to 1000	12.01.63	12.32.22	Removal of cardiac thrombus,
Right atrial reduction atrioplasty,	to 1000	12.01.68	12.01.60	Right atrial procedure,
Right atrial wall plication,	to 1000	12.01.64	12.01.60	Right atrial procedure,
Right atrial reduction by resection,	to 1000	12.60.29	12.01.60	Right atrial procedure,
Right atrial catheter open insertion,	to 1000	12.01.65	12.01.60	Right atrial procedure,
Eustachian valve procedure,	to 1000	12.60.40	12.01.60	Right atrial procedure,
Eustachian valve excision,	to 1000	12.01.54	12.01.60	Right atrial procedure,
Eustachian valve refashioned,	to 1000	12.01.55	12.01.60	Right atrial procedure,
Thebesian valve procedure,	to 1000	12.60.41	12.01.60	Right atrial procedure,
Thebesian valve excision,	to 1000	12.01.56	12.01.60	Right atrial procedure,
Right atrium to right ventricle conduit construction,	to 1630	12.30.08	12.36.00	Conduit construction procedure,
Right atrium to pulmonary trunk conduit construction,	to 1630	12.36.20	12.36.00	Conduit construction procedure,
Right atrial appendage excision,	to 1000	12.01.66	12.01.60	Right atrial procedure,

1022 Left atrial procedures

Left atrial procedure,	to 1000	12.01.30	12.01.30	Left atrial procedure,
Cor triatriatum (divided left atrium) repair,	to 1000	12.01.31	12.01.31	Cor triatriatum (divided left atrium) repair,
Cor triatriatum (divided left atrium) repair: shell excision,	to 1000	12.60.20	12.01.31	Cor triatriatum (divided left atrium) repair,
Cor triatriatum (divided left atrium + all pulmonary veins to proximal chamber) repair,	to 1000	12.60.21	12.01.31	Cor triatriatum (divided left atrium) repair,
Cor triatriatum (divided left atrium + all pulmonary veins to proximal chamber) repair: shell excision,	to 1000	12.60.22	12.01.31	Cor triatriatum (divided left atrium) repair,
Cor triatriatum (divided left atrium + not all pulmonary veins to proximal chamber) repair,	to 1000	12.60.23	12.01.31	Cor triatriatum (divided left atrium) repair,
Cor triatriatum (divided left atrium + not all pulmonary veins to proximal chamber) repair: shell excision,	to 1000	12.60.24	12.01.31	Cor triatriatum (divided left atrium) repair,
Left atrial lesion excision,	to 1000	12.01.33	12.01.30	Left atrial procedure,
Left atrial myxoma excision,	to 1000	12.01.71	12.32.10	Heart tumour resection,
Left atrial vegetation excision,	to 1000	12.01.34	12.32.20	Removal of cardiac vegetations,
Left atrial thrombus removal,	to 1000	12.01.35	12.32.22	Removal of cardiac thrombus,
Left atrial reduction atrioplasty,	to 1000	12.01.72	12.01.30	Left atrial procedure,
Left atrial wall excision,	to 1000	12.01.36	12.01.30	Left atrial procedure,
Left atrial appendage plication,	to 1000	12.01.37	12.01.30	Left atrial procedure,
Left atrial appendage orifice closure,	to 1000	12.01.73	12.01.30	Left atrial procedure,
Left atrial catheter open insertion,	to 1000	12.01.38	12.01.30	Left atrial procedure,
Left atrium to left ventricle conduit construction,	to 1630	12.36.19	12.36.00	Conduit construction procedure,
Left atrial appendage excision,	to 1000	12.01.40	12.01.30	Left atrial procedure,
Left atrial appendage ligation procedure for arrhythmia,	to 880	12.35.44	12.35.40	Arrhythmia surgical procedure,
Left atrial appendage isolation procedure for arrhythmia,	to 880	12.38.55	12.35.40	Arrhythmia surgical procedure,

1023 Procedures to close an interatrial communication

Interatrial communication closure,	to 1000	12.01.00	12.01.00	Interatrial communication closure,
Patent foramen ovale (PFO) closure,	to 1603	12.01.59	12.01.53	Patent foramen ovale (PFO) direct closure,
Patent foramen ovale (PFO) direct closure,	to 1603	12.01.53	12.01.53	Patent foramen ovale (PFO) direct closure,
Atrial septal defect (ASD) secundum closure,	to 1000	12.01.01	12.01.01	Atrial septal defect (ASD) secundum closure,
Atrial septal defect (ASD) secundum closure with direct suture,	to 1603	12.01.02	12.01.02	Atrial septal defect (ASD) secundum closure with direct suture,
Atrial septal defect (ASD) secundum closure with patch,	to 1608	12.01.03	12.01.03	Atrial septal defect (ASD) secundum closure with patch,
Atrial septal defect (ASD) secundum closure with fenestrated patch,	to 1608	12.01.14	12.01.03	Atrial septal defect (ASD) secundum closure with patch,
Interatrial communication (ASD) surgical closure,	to 1603	12.01.18	12.01.00	Interatrial communication closure,
Interatrial communication (ASD) closure by direct suture,	to 1603	12.01.16	12.01.00	Interatrial communication closure,
Interatrial communication (ASD) closure with patch,	to 1608	12.01.17	12.01.00	Interatrial communication closure,
Interatrial communication closure: partial,	to 1000	12.01.08	12.01.08	Interatrial communication closure: partial,
Interatrial communication partial closure with direct suture,	to 1603	12.01.09	12.01.08	Interatrial communication closure: partial,
Interatrial communication partial closure with patch,	to 1608	12.01.59	12.01.08	Interatrial communication closure: partial,
Sinus venosus defect (ASD) closure,	to 1000	12.01.10	12.01.10	Interatrial communication closure: partial,
Sinus venosus ASD with overriding superior caval vein (SVC) closure,	to 1000	12.01.11	12.01.10	Sinus venosus defect (ASD) closure,
Sinus venosus defect (ASD) with overriding inferior caval vein (IVC) closure,	to 1608	12.01.12	12.01.10	Sinus venosus defect (ASD) closure,
Sinus venosus defect (ASD) closure with patch,	to 1608	12.01.13	12.01.10	Sinus venosus defect (ASD) closure,
Sinus venosus defect (ASD) closure with direct suture,	to 1603	12.01.99	12.01.10	Sinus venosus defect (ASD) closure,
Sinus venosus defect (ASD) closure with superior caval vein (SVC) sewn to atrial appendage (Warden),	to 1608	12.01.75	12.01.10	Sinus venosus defect (ASD) closure,
Atrial septation procedure,	to 1608	12.01.22	12.01.22	Atrial septation procedure,
Closure of previously created interatrial communication,	to 1608	12.01.15	12.01.01	Atrial septal defect (ASD) secundum closure,
Atrial fenestration closure,	to 1000	12.30.41	12.30.41	Atrial fenestration closure,
Atrial fenestration closure: surgical,	to 1000	12.30.42	12.30.41	Atrial fenestration closure,
Closure of adjustable interatrial communication,	to 1000	12.30.23	12.01.00	Interatrial communication closure,
Reduction of interatrial fenestration,	to 1000	12.29.95	12.01.08	Interatrial communication closure: partial,
Reduction of interatrial patch fenestration,	to 1000	12.29.96	12.01.08	Interatrial communication closure: partial,
Reduction of interatrial patch fenestration: surgical,	to 1000	12.29.97	12.01.08	Interatrial communication closure: partial,
Coronary sinus interatrial communication (ASD) closure procedures	to 1015	not relevant		
Procedures to close or partially close (reduce) a fenestration for Fontan type procedures	to 1234	not relevant		

1024 Procedures to create/enlarge an interatrial communication

Transluminal/transcatheter procedures involving atrial septum	to 1420	not relevant		
Fenestration procedures for Fontan-type connections	to 1233	not relevant		
Interatrial communication creation-enlargement,	to 1690	12.01.90	12.01.90	Interatrial communication creation-enlargement,
Interatrial communication creation,	to 1690	12.01.46	12.01.90	Interatrial communication creation-enlargement,
Interatrial communication creation at site of oval fossa,	to 1690	12.31.90	12.01.90	Interatrial communication creation-enlargement,
Interatrial communication creation at site of oval fossa: surgical,	to 1690	12.31.91	12.01.90	Interatrial communication creation-enlargement,
Interatrial communication creation by re-establishment of oval foramen,	to 1690	12.31.94	12.01.90	Interatrial communication creation-enlargement,
Interatrial communication creation by re-establishment of oval foramen: surgical,	to 1690	12.31.95	12.01.90	Interatrial communication creation-enlargement,
Interatrial communication enlargement,	to 1690	12.01.96	12.01.90	Interatrial communication creation-enlargement,
Atrial septectomy: closed (Blalock Hanlon),	to 1000	12.01.42	12.01.42	Atrial septectomy: closed (Blalock Hanlon),

	Atrial septectomy,	to 1000	12.01.43	12.01.43	Atrial septectomy,
	Atrial septectomy via atrial purse string,	to 1000	12.01.91	12.01.43	Atrial septectomy,
	Atrial septectomy via separate atriotomy,	to 1000	12.01.92	12.01.43	Atrial septectomy,
	Interatrial communication (ASD) enlargement: surgical,	to 1690	12.30.24	12.01.43	Atrial septectomy,
	Interatrial communication (ASD) enlargement via atrial purse string,	to 1690	12.01.93	12.01.43	Atrial septectomy,
	Interatrial communication (ASD) enlargement via separate atriotomy,	to 1690	12.01.94	12.01.43	Atrial septectomy,
	Fenestration at atrial level,	to 1690	12.01.85	12.30.20	Fenestration of atrial septum,
	Fenestration at atrial level: surgical,	to 1690	12.01.83	12.30.20	Fenestration of atrial septum,
	Fenestration of atrial septum,	to 1690	12.30.20	12.30.20	Fenestration of atrial septum,
	Fenestration of interatrial patch,	to 1690	12.30.25	12.30.20	Fenestration of atrial septum,
	Fenestration of interatrial patch: surgical,	to 1690	12.30.48	12.30.20	Fenestration of atrial septum,
	Construction of adjustable interatrial communication (Laks),	to 1685	12.30.22	12.30.27	Fenestration of Fontan type connection,
	Atrial fenestration enlargement,	to 1690	12.30.47	12.01.90	Interatrial communication creation-enlargement,
1025	Atrial inversion procedures				
	Atrial inversion procedure,	to 1000	12.29.06	12.01.22	Atrial septation procedure,
	Serning procedure (atrial inversion),	to 1000	12.29.01	12.29.01	Serning procedure (atrial inversion),
	Serning procedure (atrial inversion): without patch (classic),	to 1000	12.29.94	12.29.01	Serning procedure (atrial inversion),
	Serning procedure (atrial inversion): with patch,	to 1608	12.29.93	12.29.01	Serning procedure (atrial inversion),
	Serning procedure (atrial inversion): using inverted left atrial appendage,	to 1000	12.29.18	12.29.01	Serning procedure (atrial inversion),
	Serning procedure (atrial inversion) & pericardial augmentation of pulmonary venous atrium (Shumacker),	to 1000	12.29.74	12.29.01	Serning procedure (atrial inversion),
	Serning procedure (atrial inversion) & left ventricle to pulmonary trunk intraatrial tunnel creation,	to 1608	12.29.08	12.29.40	Complex transposition of great arteries repair,
	Serning procedure (atrial inversion): partial with inferior caval & left pulmonary veins towards mitral valve,	to 1608	12.29.77	12.29.01	Serning procedure (atrial inversion),
	Mustard procedure (atrial inversion),	to 1608	12.29.02	12.29.02	Mustard procedure (atrial inversion),
	Mustard procedure (atrial inversion) & left ventricle to pulmonary trunk intraatrial tunnel creation,	to 1608	12.29.09	12.29.40	Complex transposition of great arteries repair,
	Atrial inversion procedure (non-Mustard or Serning),	to 1000	12.29.19	12.01.22	Atrial septation procedure,
	Atrial inversion procedure: partial: right pulmonary veins to right atrium & inferior caval vein to left atrium conduit (Baffles),	to 1000	12.29.98	12.01.22	Atrial septation procedure,
	Atrial inversion procedure (Mustard or Serning) revision,	to 1000	12.29.79	12.29.79	Atrial inversion procedure (Mustard or Serning) revision,
	Atrial inversion procedure: take down,	to 1000	12.29.10	12.01.57	Atrial baffle procedure,
	Serning procedure (atrial inversion) takedown,	to 1000	12.29.16	12.01.57	Atrial baffle procedure,
	Mustard procedure (atrial inversion) takedown,	to 1000	12.29.17	12.01.57	Atrial baffle procedure,
1027	Interatrial communication (ASD) closure revision and takedown procedures				
	Takedown of interatrial communication (ASD) closure,	to 1000	12.29.80	12.01.90	Interatrial communication creation-enlargement,
	Takedown of direct suture closure of interatrial communication (ASD),	to 1000	12.29.81	12.01.90	Interatrial communication creation-enlargement,
	Takedown of direct suture closure of interatrial communication (ASD) with conversion to patch closure,	to 1608	12.29.82	12.01.03	Atrial septal defect (ASD) secundum closure with patch,
	Takedown of direct suture closure of interatrial communication (ASD) leaving communication open,	to 1000	12.29.83	12.01.90	Interatrial communication creation-enlargement,
	Takedown of direct suture closure of interatrial communication (ASD) leaving communication partially open,	to 1000	12.29.84	12.01.90	Interatrial communication creation-enlargement,
	Takedown of patch closure of interatrial communication (ASD),	to 1000	12.29.85	12.01.90	Interatrial communication creation-enlargement,
	Takedown of patch closure of interatrial communication (ASD) leaving communication open,	to 1000	12.29.86	12.01.90	Interatrial communication creation-enlargement,
	Takedown of patch closure of interatrial communication (ASD) leaving communication partially open,	to 1000	12.29.87	12.01.90	Interatrial communication creation-enlargement,
	Takedown of device closure of interatrial communication (ASD),	to 1000	12.29.88	12.01.90	Interatrial communication creation-enlargement,
	Removal of interatrial communication (ASD) implanted device,	to 1660	12.29.99	12.33.60	Operation related to transcatheter procedure,
	Takedown of device closure of interatrial communication (ASD) with conversion to direct suture closure,	to 1603	12.29.89	12.01.02	Atrial septal defect (ASD) secundum closure with direct suture,
	Takedown of device closure of interatrial communication (ASD) with conversion to patch closure,	to 1608	12.29.90	12.01.03	Atrial septal defect (ASD) secundum closure with patch,
	Takedown of device closure of interatrial communication (ASD) leaving communication open,	to 1000	12.29.91	12.01.90	Interatrial communication creation-enlargement,
	Takedown of device closure of interatrial communication (ASD) leaving communication partially open,	to 1000	12.29.92	12.01.90	Interatrial communication creation-enlargement,
	End of branch				
1028	Atrioventricular valvar and atrioventricular septal defect procedures				
	Tricuspid valvar procedures	to 1030	not relevant		
	Mitral valvar procedures	to 1040	not relevant		
	Atrioventricular septal defect & common atrioventricular junction procedures	to 1050	not relevant		
	Atrioventricular valvar procedures in double inlet ventricle	to 1068	not relevant		
	Atrioventricular valvar transluminal/transcatheter procedures	to 1425	not relevant		
	Approach to repair valve lesion - qualifiers	to 1787	not relevant		
	Atrioventricular valvar repair,	to 1000	12.90.01	12.90.01	Atrioventricular valvar repair,
	Atrioventricular valvar replacement,	to 1000	12.90.02	12.32.21	Cardiac procedure,
	Left atrioventricular valve or mitral valve 'clef' repair,	to 1000	12.90.03	12.90.01	Atrioventricular valvar repair,
	End of branch				
1030	Tricuspid valvar procedures				
	Tricuspid valvar procedure,	to 1000	12.02.00	12.02.00	Tricuspid valvar procedure,
	Tricuspid valvar repair,	to 1000	12.02.79	12.02.00	Tricuspid valvar procedure,
	Tricuspid valvar annuloplasty	to 1031	not relevant		
	Procedures to tricuspid papillary muscle	to 1032	not relevant		
	Procedures to tricuspid chords	to 1034	not relevant		
	Tricuspid leaflet (valvoplasty) procedures	to 1035	not relevant		
	Tricuspid valvotomy-valvectomy-valvar replacement	to 1038	not relevant		
	Inspection of tricuspid valve,	to 1000	12.02.20	12.02.00	Tricuspid valvar procedure,
	Ebstein's malformation of tricuspid valve repair,	to 1000	12.02.09	12.02.09	Ebstein's malformation of tricuspid valve repair,
	Ebstein's malformation of tricuspid valve repositioning with plication,	to 1000	12.02.78	12.02.09	Ebstein's malformation of tricuspid valve repair,
	Ebstein's malformation of tricuspid valve repair: tricuspid valve closure & shunt (Starnes),	to 1251	12.02.77	12.02.09	Ebstein's malformation of tricuspid valve repair,
	Ebstein's malformation of tricuspid valve repair: tricuspid valve partial closure & shunt (modified Starnes),	to 1251	12.02.85	12.02.09	Ebstein's malformation of tricuspid valve repair,
	Tricuspid valvar closure,	to 1000	12.02.70	12.02.70	Tricuspid valvar closure,
	Oversewing of tricuspid valve,	to 1000	12.02.23	12.02.70	Tricuspid valvar closure,
	Tricuspid valvar closure using patch,	to 1608	12.02.29	12.02.70	Tricuspid valvar closure,
	Removal of thrombus from tricuspid valve,	to 1000	12.02.24	12.32.22	Removal of cardiac thrombus,
	Excision of vegetations from tricuspid valve,	to 1000	12.02.25	12.32.20	Removal of cardiac vegetations,
	Decalcification of tricuspid valve,	to 1000	12.02.26	12.02.00	Tricuspid valvar procedure,
	Implanted tricuspid valvar procedure,	to 1605	12.02.60	12.02.00	Tricuspid valvar procedure,
	Right atrium to right ventricle conduit construction,	to 1630	12.30.08	12.36.00	Conduit construction procedure,
1031	Annuloplasty of tricuspid valve				
	Tricuspid valvar annuloplasty,	to 1000	12.02.04	12.02.04	Tricuspid valvar annuloplasty,
	Tricuspid valvar annuloplasty using ring,	to 1640	12.02.05	12.02.04	Tricuspid valvar annuloplasty,
	Tricuspid valvar plication annuloplasty (De Vega),	to 1000	12.02.28	12.02.04	Tricuspid valvar annuloplasty,
	Tricuspid valvar plication eccentric annuloplasty: bicuspidsation (Kay),	to 1036	12.02.71	12.02.04	Tricuspid valvar annuloplasty,
	Tricuspid valvar annuloplasty: purse string,	to 1000	12.02.81	12.02.04	Tricuspid valvar annuloplasty,
	Tricuspid valvar semicircular annuloplasty: purse string,	to 1000	12.02.72	12.02.04	Tricuspid valvar annuloplasty,
	Tricuspid valvar annuloplasty: sliding,	to 1000	12.02.73	12.02.04	Tricuspid valvar annuloplasty,
	Tricuspid valvar eccentric annuloplasty,	to 1000	12.02.74	12.02.04	Tricuspid valvar annuloplasty,
	Tricuspid valvar annuloplasty: Cabrol,	to 1000	12.02.75	12.02.04	Tricuspid valvar annuloplasty,
	Tricuspid valvar annuloplasty: Frater,	to 1000	12.02.76	12.02.04	Tricuspid valvar annuloplasty,
1032	Procedures to tricuspid papillary muscle				
	Tricuspid papillary muscle procedure,	to 1033	12.02.30	12.02.00	Tricuspid valvar procedure,
	Tricuspid papillary muscle lengthening procedure: sliding plasty,	to 1033	12.02.31	12.02.00	Tricuspid valvar procedure,
	Tricuspid papillary muscle shortening procedure,	to 1033	12.02.32	12.02.00	Tricuspid valvar procedure,
	Tricuspid papillary muscle reimplantation,	to 1033	12.02.33	12.02.00	Tricuspid valvar procedure,
	Tricuspid papillary muscle translocation,	to 1033	12.02.36	12.02.00	Tricuspid valvar procedure,
	Tricuspid papillary muscle splitting,	to 1033	12.02.35	12.02.00	Tricuspid valvar procedure,
1033 @	Specific tricuspid papillary muscle involved in procedure - qualifiers				
	- medial tricuspid papillary muscle,	to 1000	Q1.01.74	not relevant	
	- inferior tricuspid papillary muscle,	to 1000	Q1.01.75	not relevant	
	- anterior tricuspid papillary muscle,	to 1000	Q1.01.76	not relevant	
	- papillary muscle(s) involved unknown or unspecified,	to 1000	Q1.01.79	not relevant	
	no entry	to 1000	not relevant		
1034	Procedures to tricuspid chords				
	Procedure to tricuspid chords,	to 1036	12.02.40	12.02.00	Tricuspid valvar procedure,
	Repair of ruptured tricuspid chords,	to 1036	12.02.41	12.02.00	Tricuspid valvar procedure,
	Division/resection of tricuspid chords,	to 1036	12.02.42	12.02.00	Tricuspid valvar procedure,
	Fenestration procedure to tricuspid chords,	to 1036	12.02.43	12.02.00	Tricuspid valvar procedure,
	Shortening plasty of tricuspid chords	to 1036	12.02.44	12.02.00	Tricuspid valvar procedure,
	Prosthetic replacement of tricuspid chords,	to 1036	12.02.46	12.02.00	Tricuspid valvar procedure,
	Division + reimplantation of tricuspid chords,	to 1036	12.02.47	12.02.00	Tricuspid valvar procedure,
	Tricuspid chords repositioned with infradicular muscle flap,	to 1036	12.02.48	12.02.00	Tricuspid valvar procedure,
	Tricuspid chord splitting,	to 1036	12.02.49	12.02.00	Tricuspid valvar procedure,
1035	Tricuspid leaflet (valvoplasty) procedures				
	Tricuspid leaflet (valvoplasty) procedure,	to 1036	12.02.02	12.02.02	Tricuspid leaflet (valvoplasty) procedure,
	Repair of defect in tricuspid leaflet by direct suture,	to 1036	12.02.51	12.02.02	Tricuspid leaflet (valvoplasty) procedure,
	Repair of defect in tricuspid leaflet with patch,	to 1036	12.02.52	12.02.02	Tricuspid leaflet (valvoplasty) procedure,
	Resection of tricuspid leaflet,	to 1036	12.02.53	12.02.02	Tricuspid leaflet (valvoplasty) procedure,
	Closure of true tricuspid valve cleft,	to 1036	12.02.54	12.02.02	Tricuspid leaflet (valvoplasty) procedure,
	Excision nodule/fibrous thickening from tricuspid leaflet,	to 1036	12.02.55	12.02.02	Tricuspid leaflet (valvoplasty) procedure,
	Tricuspid valve leaflet patch extension,	to 1036	12.02.56	12.02.02	Tricuspid leaflet (valvoplasty) procedure,
	Tricuspid valve leaflet division,	to 1036	12.02.57	12.02.02	Tricuspid leaflet (valvoplasty) procedure,
	Tricuspid valve leaflet mobilisation,	to 1036	12.02.58	12.02.02	Tricuspid leaflet (valvoplasty) procedure,

	Tricuspid valve leaflet repair with edge to edge technique (Allieri), Tricuspid valve commissure closure,	to 1036 to 1036	12.02.59 12.02.82	12.02.02 12.02.02	Tricuspid leaflet (valvoplasty) procedure, Tricuspid leaflet (valvoplasty) procedure,
1036 @	Specific tricuspid leaflet involved in procedure - qualifiers				
	- septal tricuspid leaflet, - anterosuperior tricuspid leaflet, - inferoposterior-mural tricuspid leaflet, - septal-anterosuperior leaflets commissure, - septal-posteromural leaflets commissure, - anterosuperior-posteromural leaflets commissure, - leaflet(s) involved unknown or unspecified, no entry	to 1000 to 1000 to 1000 to 1000 to 1000 to 1000 to 1000 to 1000	Q1.01.71 Q1.01.72 Q1.01.73 Q5.02.88 Q5.02.89 Q5.02.90 Q1.01.78 not relevant	not relevant not relevant not relevant not relevant not relevant not relevant not relevant	
1038	Tricuspid valvotomy-valvectomy-valvar replacement				
	Tricuspid valvotomy, Tricuspid valvotomy - closed, Tricuspid valvectomy, Tricuspid valvar replacement, Tricuspid valvar replacement using homograft, Tricuspid valvar replacement using heterograft bioprosthesis, Tricuspid valvar replacement using mechanical prosthesis, Tricuspid valve repair converted to tricuspid valvar replacement, Tricuspid valve insertion without replacement, Replacement of implanted tricuspid valve,	to 1000 to 1000 to 1000 to 1619 to 1620 to 1622 to 1623 to 1619 to 1619 to 1600	12.02.01 12.02.21 12.02.22 12.02.11 12.02.19 12.02.14 12.02.18 12.02.83 12.02.84 12.02.68	12.02.00 12.02.00 12.02.22 12.02.11 12.02.11 12.02.11 12.02.11 12.02.11 12.02.11 12.02.11	Tricuspid valvar procedure, Tricuspid valvar procedure, Tricuspid valvectomy, Tricuspid valvar replacement, Tricuspid valvar replacement, Tricuspid valvar replacement, Tricuspid valvar replacement, Tricuspid valve repair converted to tricuspid valvar replacement, Tricuspid valvar replacement, Tricuspid valvar replacement,
	_____ End of branch _____				
1040	Mitral valvar procedures				
	Mitral valvar procedure, Mitral valve repair, Mitral valvar annuloplasty Procedures to mitral papillary muscle Procedures to mitral chords Mitral leaflet (valvoplasty) procedures Mitral valvotomy-valvectomy-valvar replacement Mitral subvalvar apparatus procedure, Geometric mitral reconstruction, Inspection of mitral valve, Mitral valve closure, Oversewing of mitral valve, Mitral valvar closure using patch, Supra-mitral valvar left atrial ring excision, Removal of thrombus from mitral valve, Excision of vegetations from mitral valve, Decalcification of mitral valve, Implanted mitral valvar procedure, Left atrium to left ventricle conduit construction,	to 1000 to 1000 to 1041 to 1042 to 1044 to 1045 to 1046 to 1000 to 1000 to 1000 to 1000 to 1000 to 1608 to 1000 to 1000 to 1000 to 1000 to 1603 to 1603 to 1603 to 1603	12.03.00 12.03.90 not relevant not relevant not relevant not relevant 12.03.19 12.03.04 12.03.20 12.03.03 12.03.23 12.03.00 12.01.32 12.03.24 12.03.25 12.03.26 12.03.60 12.36.19	12.03.00 12.03.00 12.03.19 12.03.00 12.03.00 12.03.00 12.03.00 12.03.00 12.03.00 12.03.00 12.03.00 12.03.00 12.32.22 12.32.20 12.03.00 12.03.00 12.36.00	Mitral valvar procedure, Mitral valvar procedure, Mitral subvalvar apparatus procedure, Mitral valvar procedure, Conduit construction procedure,
1041	Mitral valvar annuloplasty				
	Mitral valvar annuloplasty, Mitral valvar annuloplasty with ring, Mitral valvar annuloplasty without ring, Mitral valvar plication annuloplasty, Mitral valvar annuloplasty (modified De Vega), Mitral valvar eccentric annuloplasty (Wooler), Mitral valvar commissural annuloplasty, Mitral valvar annuloplasty with pericardial strip, Mitral valvar annuloplasty with sutures, Mitral valvar annuloplasty: bilateral posterior leaflet symmetrical plication, Mitral valvar annuloplasty: bilateral posterior leaflet symmetrical suture hemiplication (Kay), Mitral valvar annuloplasty: bilateral posterior leaflet symmetrical extended hemiplication (Pannett),	to 1000 to 1640 to 1640 to 1000 to 1000 to 1000 to 1000 to 1000 to 1000 to 1603 to 1603 to 1603	12.03.04 12.03.05 12.03.96 12.03.28 12.03.71 12.03.72 12.03.73 12.03.74 12.03.75 12.04.81 12.04.82 12.04.83	12.03.04 12.03.04 12.03.04 12.03.04 12.03.04 12.03.04 12.03.04 12.03.04 12.03.04 12.03.04 12.03.04 12.03.04	Mitral valvar annuloplasty, Mitral valvar annuloplasty,
1042	Procedures to mitral papillary muscle				
	Mitral papillary muscle procedure, Mitral papillary muscle lengthening procedure, Mitral papillary muscle lengthening procedure - sliding plasty, Mitral papillary muscle lengthening procedure - concertina, Mitral papillary muscle lengthening procedure - coneiform resection, Mitral papillary muscle incision, Mitral papillary muscle shortening procedure, Mitral papillary muscle translocation, Mitral papillary muscle translocation with detachment, Mitral papillary muscle translocation without detachment, Mitral papillary muscle reimplantation (same site), Mitral papillary muscle reimplantation (same site) with detachment, Mitral papillary muscle reimplantation (same site) without detachment, Mitral papillary muscle splitting,	to 1043 to 1043	12.03.30 12.03.35 12.03.31 12.03.36 12.03.37 12.03.38 12.03.32 12.03.23 12.03.39 12.03.79 12.03.70 12.03.87 12.03.88 12.03.92	12.03.19 12.03.19 12.03.19 12.03.19 12.03.19 12.03.19 12.03.19 12.03.19 12.03.19 12.03.19 12.03.19 12.03.19 12.03.19 12.03.19	Mitral subvalvar apparatus procedure, Mitral subvalvar apparatus procedure,
1043 @	Specific mitral papillary muscle involved in procedure - qualifiers				
	- medial mitral papillary muscle, - lateral mitral papillary muscle, - papillary muscle(s) involved unknown or unspecified, no entry	to 1000 to 1000 to 1000 to 1000	Q1.02.74 Q1.02.75 Q1.01.79 not relevant	not relevant not relevant not relevant	
1044	Procedures to mitral chords				
	Procedure to mitral chords, Mitral chordal reconstruction, Repair of ruptured mitral chords, Division/resection of mitral chords, Fenestration procedure to mitral chords, Shortening plasty of mitral chords, Prosthetic replacement of mitral chords, Division + reimplantation of mitral chords, Lengthening plasty of mitral chords, Posterior sliding chordal plasty of mitral valve,	to 1046 to 1046 to 1046 to 1046 to 1046 to 1046 to 1046 to 1046 to 1046 to 1046	12.03.40 12.03.86 12.03.41 12.03.42 12.03.43 12.03.44 12.03.46 12.03.47 12.03.48 12.03.49	12.03.19 12.03.19 12.03.19 12.03.19 12.03.19 12.03.19 12.03.19 12.03.19 12.03.19 12.03.19	Mitral subvalvar apparatus procedure, Mitral subvalvar apparatus procedure,
1045	Mitral leaflet (valvoplasty) procedures				
	Mitral leaflet (valvoplasty) procedure, Mitral leaflet repair by direct suture, Mitral leaflet defect repair by direct suture, Mitral leaflet defect repair with patch, Mitral leaflet resection, Mitral leaflet resection: triangular, Mitral leaflet resection: quadrangular, Mitral leaflet repair: pericardial augmentation, Mitral leaflet repair: plication free edge reduction, Mitral leaflet repair: fixation on secondary chords, Mitral valve leaflet repair with edge-to-edge (double orifice) technique (Allieri), True mitral valvar cleft repair, Excision of nodule/fibrous thickening from mitral leaflet,	to 1046 to 1046	12.03.03 12.03.95 12.03.51 12.03.52 12.03.53 12.03.56 12.03.57 12.03.58 12.03.91 12.03.59 12.03.89 12.03.54 12.03.55	12.03.03 12.03.03 12.03.03 12.03.03 12.03.03 12.03.03 12.03.03 12.03.03 12.03.03 12.03.03 12.03.03 12.03.03 12.03.03	Mitral leaflet (valvoplasty) procedure, Mitral leaflet (valvoplasty) procedure,
1046 @	Specific mitral leaflet or chords involved in procedure - qualifiers				
	- aortic-anterior mitral leaflet, - mural-posterior mitral leaflet, - anterior mitral chords, - posterior mitral chords, - anterior & posterior mitral chords, - leaflet(s) involved unknown or unspecified, no entry	to 1000 to 1000 to 1000 to 1000 to 1000 to 1000 to 1000	Q1.02.71 Q1.02.72 Q5.03.87 Q5.03.88 Q5.03.89 Q1.01.78 not relevant	not relevant not relevant not relevant not relevant not relevant not relevant	
1048	Mitral valvotomy-valvectomy-valvar replacement				
	Mitral valvotomy, Mitral valvotomy: closed, Mitral valvotomy: open, Mitral valve commissurotomy, Mitral valve commissurotomy with ring, Mitral valve commissurotomy without ring, Mitral valvectomy, Mitral valvar replacement, Mitral valvar replacement with preservation of posterior leaflet, Mitral valvar replacement using homograft, Mitral valvar replacement using heterograft bioprosthesis,	to 1000 to 1000 to 1000 to 1000 to 1640 to 1000 to 1000 to 1600 to 1600 to 1620 to 1622	12.03.01 12.03.02 12.03.85 12.03.76 12.03.77 12.03.78 12.03.22 12.03.11 12.03.81 12.03.82 12.03.14	12.03.01 12.03.01 12.03.01 12.03.01 12.03.01 12.03.01 12.03.00 12.03.11 12.03.11 12.03.11 12.03.11	Mitral valvotomy, Mitral valvotomy, Mitral valvotomy, Mitral valvotomy, Mitral valvotomy, Mitral valvotomy, Mitral valvotomy, Mitral valvar procedure, Mitral valvar replacement, Mitral valvar replacement, Mitral valvar replacement, Mitral valvar replacement,

	Mitral valvar replacement using mechanical prosthesis,	to 1623	12.03.18	12.03.11	Mitral valvar replacement,
	Mitral valvar replacement using extracardiac valved conduit,	to 1620	12.03.83	12.03.11	Mitral valvar replacement,
	Mitral valve repair converted to mitral valvar replacement,	to 1600	12.03.84	12.03.84	Mitral valve repair converted to mitral valvar replacement,
	Replacement of implanted mitral valve,	to 1600	12.03.68	12.03.11	Mitral valvar replacement,
	End of branch				
1050	Atrioventricular septal defect and common atrioventricular junction procedures				
	Atrioventricular septal defect procedure,	to 1608	12.04.00	12.04.00	Atrioventricular septal defect procedure,
	Atrioventricular septal defect (AVSD): partial (primum ASD) repair,	to 1051	12.04.01	12.04.01	Atrioventricular septal defect (AVSD): partial (primum ASD) repair,
	Atrioventricular septal defect (AVSD): partial (primum ASD) repair without suturing together bridging leaflets of left atrioventricular valve ("cleft"),	to 1051	12.04.02	12.04.01	Atrioventricular septal defect (AVSD): partial (primum ASD) repair,
	Atrioventricular septal defect (AVSD): partial (primum ASD) repair with suturing together bridging leaflets of left atrioventricular valve ("cleft"),	to 1051	12.04.03	12.04.01	Atrioventricular septal defect (AVSD): partial (primum ASD) repair,
	Atrioventricular septal defect (AVSD): partial with isolated ventricular component (VSD) repair,	to 1051	12.04.09	12.04.09	Atrioventricular septal defect (AVSD): partial with isolated ventricular component (VSD) repair,
	Atrioventricular septal defect (AVSD): complete (common valve orifice) repair,	to 1051	12.05.01	12.05.01	Atrioventricular septal defect (AVSD): complete (common valve orifice) repair,
	Atrioventricular septal defect (AVSD): complete (common valve orifice) repair without suturing together bridging leaflets of left atrioventricular valve ("cleft"),	to 1051	12.05.02	12.05.01	Atrioventricular septal defect (AVSD): complete (common valve orifice) repair,
	Atrioventricular septal defect (AVSD): complete (common valve orifice) repair with suturing together bridging leaflets of left atrioventricular valve ("cleft"),	to 1051	12.05.03	12.05.01	Atrioventricular septal defect (AVSD): complete (common valve orifice) repair,
	Atrioventricular septal defect (AVSD): "intermediate" repair,	to 1051	12.05.10	12.05.10	Atrioventricular septal defect (AVSD): "intermediate" repair,
	Atrioventricular septal defect (AVSD): "intermediate" repair without suturing together bridging leaflets of left atrioventricular valve ("cleft"),	to 1051	12.05.20	12.05.10	Atrioventricular septal defect (AVSD): "intermediate" repair,
	Atrioventricular septal defect (AVSD): "intermediate" repair with suturing together bridging leaflets of left atrioventricular valve ("cleft"),	to 1051	12.05.21	12.05.10	Atrioventricular septal defect (AVSD): "intermediate" repair,
	Atrioventricular septal defect (AVSD) & Tetralogy of Fallot repair,	to 1051	12.05.11	12.05.11	Atrioventricular septal defect (AVSD) & Tetralogy of Fallot repair,
	Atrioventricular septal defect repair,	to 1051	12.05.14	12.04.00	Atrioventricular septal defect procedure,
	Takedown of atrioventricular septal defect repair,	to 1000	12.05.18	12.04.00	Atrioventricular septal defect procedure,
1051	Atrioventricular septal defect and common atrioventricular junction procedure techniques				
	Atrioventricular septal defect (AVSD): atrial component repair,	to 1608	12.05.17	12.04.00	Atrioventricular septal defect procedure,
	Atrioventricular septal defect (AVSD): atrial component repair with patch,	to 1608	12.05.15	12.04.00	Atrioventricular septal defect procedure,
	Atrioventricular septal defect (AVSD): atrial component repair: direct suture,	to 1603	12.05.16	12.04.00	Atrioventricular septal defect procedure,
	Atrioventricular septal defect (AVSD): atrial component enlargement prior to repair,	to 1000	12.05.19	12.04.00	Atrioventricular septal defect procedure,
	Atrioventricular septal defect (AVSD): ventricular component repair with patch,	to 1608	12.04.07	12.04.00	Atrioventricular septal defect procedure,
	Atrioventricular septal defect (AVSD): ventricular component repair: direct suture,	to 1603	12.04.08	12.04.00	Atrioventricular septal defect procedure,
	Atrioventricular septal defect (AVSD): complete (common valve orifice) repair - single patch (to both components),	to 1608	12.05.07	12.05.01	AVSD: complete (common valve orifice) repair,
	Atrioventricular septal defect (AVSD) repair with direct ventricular component closure & patch to atrial component (Nunn/Wilson),	to 1608	12.05.71	12.05.01	AVSD: complete (common valve orifice) repair,
	Atrioventricular septal defect (AVSD) repair using two patch technique,	to 1608	12.05.08	12.05.01	AVSD: complete (common valve orifice) repair,
	Atrioventricular septal defect (AVSD) atrioventricular valvar procedures	to 1052	not relevant		
	Procedures to leaflets of right or left atrioventricular valve in atrioventricular septal defect (AVSD) (valvoplasty)	to 1055	not relevant		
	no entry	to 1608	not relevant		
1052	Atrioventricular septal defect (AVSD) atrioventricular valvar procedures				
	Atrioventricular valvar procedure (valvoplasty) in atrioventricular septal defect (AVSD),	to 1000	12.04.10	12.48.01	Common atrioventricular valvar leaflet (valvoplasty) procedure,
	Atrioventricular valve leaflet procedure in atrioventricular septal defect (AVSD),	to 1000	12.04.37	12.48.01	Common atrioventricular valvar leaflet (valvoplasty) procedure,
	Common atrioventricular valvotomy,	to 1000	12.04.11	12.48.01	Common atrioventricular valvar leaflet (valvoplasty) procedure,
	Closed common atrioventricular valvotomy,	to 1000	12.04.12	12.48.01	Common atrioventricular valvar leaflet (valvoplasty) procedure,
	Implanted common atrioventricular valvar procedure,	to 1605	12.04.13	12.04.00	Atrioventricular septal defect procedure,
	Common atrioventricular valvar procedure,	to 1000	12.04.19	12.48.01	Common atrioventricular valvar leaflet (valvoplasty) procedure,
	Decalcification of common atrioventricular valve,	to 1000	12.04.14	12.48.01	Common atrioventricular valvar leaflet (valvoplasty) procedure,
	Excision of vegetations from common atrioventricular valve,	to 1000	12.04.15	12.48.01	Common atrioventricular valvar leaflet (valvoplasty) procedure,
	Inspection of common atrioventricular valve,	to 1000	12.04.16	12.04.00	Atrioventricular septal defect procedure,
	Removal of thrombus from common atrioventricular valve,	to 1000	12.04.17	12.32.22	Removal of cardiac thrombus,
	Common atrioventricular valve replacement,	to 1600	12.04.18	12.04.18	Common atrioventricular valve replacement,
	Common atrioventricular valve repair converted to atrioventricular valvar replacement,	to 1600	12.04.33	12.04.33	Common atrioventricular valve repair converted to atrioventricular valvar replacement,
	Replacement of implanted common atrioventricular valve,	to 1000	12.04.38	12.04.18	Common atrioventricular valve replacement,
	Right atrioventricular valvar procedures in atrioventricular septal defect	to 1053	not relevant		
	Left atrioventricular valvar procedures in atrioventricular septal defect	to 1054	not relevant		
	Procedures to leaflets of atrioventricular valve leaflets in atrioventricular septal defect (AVSD) (valvoplasty)	to 1055	not relevant		
	Atrioventricular valvar annuloplasty procedures in atrioventricular septal defect (AVSD)	to 1056	not relevant		
	Procedures to atrioventricular valve papillary muscles in atrioventricular septal defect (AVSD)	to 1057	not relevant		
	Procedures to atrioventricular valve chords in atrioventricular septal defect (AVSD)	to 1058	not relevant		
1053	Right atrioventricular valvar procedures in atrioventricular septal defect				
	Atrioventricular septal defect (AVSD): right atrioventricular valvar procedure,	to 1000	12.04.20	12.04.20	Atrioventricular septal defect (AVSD): right atrioventricular valvar procedure,
	Inspection of right atrioventricular valve in atrioventricular septal defect (AVSD),	to 1000	12.04.21	12.04.20	Atrioventricular septal defect (AVSD): right atrioventricular valvar procedure,
	Valvotomy of right atrioventricular valve in atrioventricular septal defect (AVSD),	to 1000	12.04.22	12.04.20	Atrioventricular septal defect (AVSD): right atrioventricular valvar procedure,
	Closed valvotomy of right atrioventricular valve in atrioventricular septal defect (AVSD),	to 1000	12.04.23	12.04.20	Atrioventricular septal defect (AVSD): right atrioventricular valvar procedure,
	Atrioventricular septal defect (AVSD): right atrioventricular valvar replacement,	to 1600	12.04.25	12.02.11	Tricuspid valvar replacement,
	Atrioventricular septal defect (AVSD): right atrioventricular repair converted to valvar replacement,	to 1600	12.04.32	12.02.11	Tricuspid valvar replacement,
	Closure of right atrioventricular valve in atrioventricular septal defect (AVSD),	to 1000	12.04.31	12.04.20	Atrioventricular septal defect (AVSD): right atrioventricular valvar procedure,
	Oversewing of right atrioventricular valve in atrioventricular septal defect (AVSD),	to 1000	12.04.26	12.02.70	Tricuspid valvar closure,
	Right atrioventricular valve in atrioventricular septal defect (AVSD) closure using patch,	to 1608	12.04.27	12.02.70	Tricuspid valvar closure,
	Removal of thrombus right atrioventricular valve in atrioventricular septal defect (AVSD),	to 1000	12.04.28	12.32.22	Removal of cardiac thrombus,
	Excision of vegetations from right atrioventricular valve in atrioventricular septal defect (AVSD),	to 1000	12.04.29	12.32.20	Removal of cardiac vegetations,
	Decalcification of right atrioventricular valve in atrioventricular septal defect (AVSD),	to 1000	12.04.30	12.04.20	Atrioventricular septal defect (AVSD): right atrioventricular valvar procedure,
	Implanted right atrioventricular valvar procedure in atrioventricular septal defect (AVSD),	to 1605	12.05.30	12.04.20	Atrioventricular septal defect (AVSD): right atrioventricular valvar procedure,
	Replacement of implanted right atrioventricular valve in atrioventricular septal defect (AVSD),	to 1600	12.05.37	12.02.11	Tricuspid valvar replacement,
1054	Left atrioventricular valvar procedures in atrioventricular septal defect (AVSD)				
	Atrioventricular septal defect (AVSD): left atrioventricular valvar procedure,	to 1000	12.04.40	12.04.40	Atrioventricular septal defect (AVSD): left atrioventricular valvar procedure,
	Inspection of left atrioventricular valve in atrioventricular septal defect (AVSD),	to 1000	12.04.41	12.04.40	Atrioventricular septal defect (AVSD): left atrioventricular valvar procedure,
	Valvotomy of left atrioventricular valve in atrioventricular septal defect (AVSD),	to 1000	12.04.42	12.04.40	Atrioventricular septal defect (AVSD): left atrioventricular valvar procedure,
	Closed valvotomy of left atrioventricular valve in atrioventricular septal defect (AVSD),	to 1000	12.04.43	12.04.40	Atrioventricular septal defect (AVSD): left atrioventricular valvar procedure,
	Atrioventricular septal defect (AVSD): left atrioventricular valvar replacement,	to 1600	12.04.45	12.04.45	Atrioventricular septal defect (AVSD): left atrioventricular valvar replacement,
	Atrioventricular septal defect (AVSD): left atrioventricular repair converted to valvar replacement,	to 1600	12.04.52	12.04.45	Atrioventricular septal defect (AVSD): left atrioventricular valvar replacement,
	Closure of left atrioventricular valve in atrioventricular septal defect (AVSD),	to 1000	12.04.51	12.04.40	Atrioventricular septal defect (AVSD): left atrioventricular valvar procedure,
	Oversewing of left atrioventricular valve in atrioventricular septal defect (AVSD),	to 1000	12.04.46	12.04.40	Atrioventricular septal defect (AVSD): left atrioventricular valvar procedure,
	Left atrioventricular valve in atrioventricular septal defect (AVSD) closure using patch,	to 1608	12.04.47	12.04.40	Atrioventricular septal defect (AVSD): left atrioventricular valvar procedure,
	Removal of thrombus left atrioventricular valve in atrioventricular septal defect (AVSD),	to 1000	12.04.48	12.32.22	Removal of cardiac thrombus,
	Excision of vegetations from left atrioventricular valve in atrioventricular septal defect (AVSD),	to 1000	12.04.49	12.32.20	Removal of cardiac vegetations,
	Decalcification of left atrioventricular valve in atrioventricular septal defect (AVSD),	to 1000	12.04.50	12.04.40	Atrioventricular septal defect (AVSD): left atrioventricular valvar procedure,
	Implanted left atrioventricular valvar procedure in atrioventricular septal defect (AVSD),	to 1605	12.05.31	12.04.40	Atrioventricular septal defect (AVSD): left atrioventricular valvar procedure,
	Replacement of implanted left atrioventricular valve in atrioventricular septal defect (AVSD),	to 1600	12.05.38	12.04.45	Atrioventricular septal defect (AVSD): left atrioventricular valvar replacement,
1055	Procedures to leaflets of atrioventricular valve leaflets in atrioventricular septal defect (AVSD) (valvoplasty)				
	Common atrioventricular valvar leaflet (valvoplasty) procedure,	to 1062	12.48.01	12.48.01	Common atrioventricular valvar leaflet (valvoplasty) procedure,
	Right atrioventricular valvar leaflet (valvoplasty) procedure in atrioventricular septal defect (AVSD),	to 1062	12.48.14	12.04.20	Atrioventricular septal defect (AVSD): right atrioventricular valvar procedure,
	Left atrioventricular valvar leaflet (valvoplasty) procedure in atrioventricular septal defect (AVSD),	to 1062	12.48.15	12.04.40	Atrioventricular septal defect (AVSD): left atrioventricular valvar procedure,
	Atrioventricular septal defect (AVSD): closure of superior + inferior bridging leaflets to left ventricular side of septum ("cleft"),	to 1000	12.48.16	12.48.02	Atrioventricular septal defect (AVSD): suturing together superior + inferior bridging leaflets to left ventricular side of septum ("cleft"),
	Atrioventricular septal defect (AVSD): suturing together superior + inferior bridging leaflets to left ventricular side of septum ("cleft"),	to 1603	12.48.02	12.48.02	Atrioventricular septal defect (AVSD): suturing together superior + inferior bridging leaflets to left ventricular side of septum ("cleft"),
	Atrioventricular septal defect (AVSD): patching together superior + inferior bridging leaflets to left ventricular side of septum ("cleft"),	to 1608	12.48.11	12.48.02	Atrioventricular septal defect (AVSD): suturing together superior + inferior bridging leaflets to left ventricular side of septum ("cleft"),
	Atrioventricular septal defect (AVSD): suturing together inferior bridging + left mural (lateral) leaflets,	to 1000	12.48.03	12.48.01	Common atrioventricular valvar leaflet (valvoplasty) procedure,
	Atrioventricular septal defect (AVSD): division of superior bridging leaflet,	to 1000	12.48.04	12.48.01	Common atrioventricular valvar leaflet (valvoplasty) procedure,
	Atrioventricular septal defect (AVSD): division of inferior bridging leaflet,	to 1000	12.48.05	12.48.01	Common atrioventricular valvar leaflet (valvoplasty) procedure,
	Repair of defect in common atrioventricular valvar leaflet by direct suture,	to 1061	12.48.06	12.48.01	Common atrioventricular valvar leaflet (valvoplasty) procedure,
	Repair of defect in common atrioventricular valvar leaflet with patch,	to 1061	12.48.07	12.48.01	Common atrioventricular valvar leaflet (valvoplasty) procedure,
	Resection of common atrioventricular valvar leaflet,	to 1061	12.48.08	12.48.01	Common atrioventricular valvar leaflet (valvoplasty) procedure,
	Excision of nodular/fibrous thickening from common atrioventricular valvar leaflet,	to 1061	12.48.09	12.48.01	Common atrioventricular valvar leaflet (valvoplasty) procedure,
	Left ventricular outflow tract obstruction relief by liberation of superior bridging leaflet using patch,	to 1608	12.48.10	12.07.13	Left ventricular outflow tract obstruction relief,
	Atrioventricular septal defect (AVSD): leaflet extension/enlargement,	to 1061	12.48.12	12.48.01	Common atrioventricular valvar leaflet (valvoplasty) procedure,
	Atrioventricular septal defect (AVSD): division/resection accessory valve tissue,	to 1061	12.48.13	12.48.01	Common atrioventricular valvar leaflet (valvoplasty) procedure,
1056	AV valvar annuloplasty procedures in AVSD				
	Annuloplasty of common atrioventricular valve,	to 1000	12.48.21	12.48.01	Common atrioventricular valvar leaflet (valvoplasty) procedure,
	Annuloplasty of common atrioventricular valve using ring,	to 1640	12.48.27	12.48.01	Common atrioventricular valvar leaflet (valvoplasty) procedure,
	Annuloplasty of right atrioventricular valve in atrioventricular septal defect (AVSD) using ring,	to 1640	12.48.22	12.04.20	Atrioventricular septal defect (AVSD): right atrioventricular valvar procedure,
	Annuloplasty of left atrioventricular valve in atrioventricular septal defect (AVSD) using ring,	to 1640	12.48.23	12.04.40	Atrioventricular septal defect (AVSD): left atrioventricular valvar procedure,
	Plication annuloplasty of common atrioventricular valve,	to 1000	12.48.24	12.48.01	Common atrioventricular valvar leaflet (valvoplasty) procedure,
	Plication annuloplasty of right atrioventricular valve in atrioventricular septal defect (AVSD),	to 1000	12.48.25	12.04.20	Atrioventricular septal defect (AVSD): right atrioventricular valvar procedure,
	Plication annuloplasty of left atrioventricular valve in atrioventricular septal defect (AVSD),	to 1000	12.48.26	12.04.40	Atrioventricular septal defect (AVSD): left atrioventricular valvar procedure,
	Plication of atrioventricular valve in atrioventricular septal defect (AVSD): commissural,	to 1000	12.48.28	12.48.01	Common atrioventricular valvar leaflet (valvoplasty) procedure,
	Annuloplasty of atrioventricular valve in atrioventricular septal defect (AVSD): commissural/plication,	to 1000	12.48.73	12.48.01	Common atrioventricular valvar leaflet (valvoplasty) procedure,
	Annuloplasty of atrioventricular valve in atrioventricular septal defect (AVSD): modified De Vega,	to 1000	12.48.70	12.48.01	Common atrioventricular valvar leaflet (valvoplasty) procedure,
	Annuloplasty of atrioventricular valve in atrioventricular septal defect (AVSD) using pericardial strip,	to 1000	12.48.71	12.48.01	Common atrioventricular valvar leaflet (valvoplasty) procedure,
	Annuloplasty of atrioventricular valve in atrioventricular septal defect (AVSD): eccentric (Wooler),	to 1000	12.48.72	12.48.01	Common atrioventricular valvar leaflet (valvoplasty) procedure,

1057	Procedures to atrioventricular valve papillary muscles in atrioventricular septal defect (AVSD)				
	Procedure to common atrioventricular valve papillary muscle,	to 1063	12.48.31	12.04.00	Atrioventricular septal defect procedure,
	Procedure to right atrioventricular valve papillary muscle,	to 1063	12.48.91	12.04.20	Atrioventricular septal defect (AVSD): right atrioventricular valvar procedure,
	Procedure to left atrioventricular valve papillary muscle,	to 1063	12.48.92	12.04.40	Atrioventricular septal defect (AVSD): left atrioventricular valvar procedure,
	Lengthening (sliding plasty) procedure to right ventricular papillary muscle of common atrioventricular valve,	to 1000	12.48.32	12.04.00	Atrioventricular septal defect procedure,
	Lengthening (sliding plasty) procedure to left ventricular papillary muscle of common atrioventricular valve,	to 1000	12.48.33	12.04.00	Atrioventricular septal defect procedure,
	Shortening procedure to right ventricular papillary muscle of common atrioventricular valve,	to 1000	12.48.34	12.04.20	Atrioventricular septal defect (AVSD): right atrioventricular valvar procedure,
	Shortening procedure to left ventricular papillary muscle of common atrioventricular valve,	to 1000	12.48.35	12.04.40	Atrioventricular septal defect (AVSD): left atrioventricular valvar procedure,
	Reimplantation of right ventricular papillary muscle of common atrioventricular valve,	to 1000	12.48.36	12.04.20	Atrioventricular septal defect (AVSD): right atrioventricular valvar procedure,
	Reimplantation of left ventricular papillary muscle of common atrioventricular valve,	to 1000	12.48.37	12.04.40	Atrioventricular septal defect (AVSD): left atrioventricular valvar procedure,
1058	Procedures to atrioventricular valve chords in atrioventricular septal defect (AVSD)				
	Procedure to common atrioventricular valvar chords,	to 1061	12.48.51	12.48.01	Common atrioventricular valvar leaflet (valvoplasty) procedure,
	Procedures to right atrioventricular chords in atrioventricular septal defect (AVSD)	to 1059	not relevant		
	Procedures to left atrioventricular chords in atrioventricular septal defect (AVSD)	to 1060	not relevant		
	Chordal reconstruction of atrioventricular valve in atrioventricular septal defect (AVSD),	to 1000	12.48.62	12.48.01	Common atrioventricular valvar leaflet (valvoplasty) procedure,
	Repair of ruptured chords of atrioventricular valve in atrioventricular septal defect (AVSD),	to 1000	12.48.63	12.48.01	Common atrioventricular valvar leaflet (valvoplasty) procedure,
	Division of chords of atrioventricular valve in atrioventricular septal defect (AVSD),	to 1000	12.48.64	12.48.01	Common atrioventricular valvar leaflet (valvoplasty) procedure,
	Resection of chords of atrioventricular valve in atrioventricular septal defect (AVSD),	to 1000	12.48.65	12.48.01	Common atrioventricular valvar leaflet (valvoplasty) procedure,
	Fenestration procedure to chords of atrioventricular valve in atrioventricular septal defect (AVSD),	to 1000	12.48.66	12.48.01	Common atrioventricular valvar leaflet (valvoplasty) procedure,
	Shortening plasty of chords of atrioventricular valve in atrioventricular septal defect (AVSD),	to 1000	12.48.67	12.48.01	Common atrioventricular valvar leaflet (valvoplasty) procedure,
	Lengthening of chords of atrioventricular valve in atrioventricular septal defect (AVSD),	to 1000	12.48.68	12.48.01	Common atrioventricular valvar leaflet (valvoplasty) procedure,
	Replacement of chords of atrioventricular valve in atrioventricular septal defect (AVSD),	to 1000	12.48.80	12.48.01	Common atrioventricular valvar leaflet (valvoplasty) procedure,
	Prosthetic replacement of chords of atrioventricular valve in atrioventricular septal defect (AVSD),	to 1000	12.48.81	12.48.01	Common atrioventricular valvar leaflet (valvoplasty) procedure,
	Transfer of chords of atrioventricular valve in atrioventricular septal defect (AVSD),	to 1000	12.48.82	12.48.01	Common atrioventricular valvar leaflet (valvoplasty) procedure,
1059	Procedures to right atrioventricular chords in atrioventricular septal defect (AVSD)				
	Procedure to right atrioventricular chords in atrioventricular septal defect (AVSD),	to 1000	12.48.93	12.04.20	Atrioventricular septal defect (AVSD): right atrioventricular valvar procedure,
	Chordal reconstruction of right atrioventricular valve in atrioventricular septal defect (AVSD),	to 1000	12.48.93	12.04.20	Atrioventricular septal defect (AVSD): right atrioventricular valvar procedure,
	Repair of ruptured chords of right atrioventricular valve in atrioventricular septal defect (AVSD),	to 1000	12.48.92	12.04.20	Atrioventricular septal defect (AVSD): right atrioventricular valvar procedure,
	Division of chords of right atrioventricular valve in atrioventricular septal defect (AVSD),	to 1000	12.48.94	12.04.20	Atrioventricular septal defect (AVSD): right atrioventricular valvar procedure,
	Resection of chords of right atrioventricular valve in atrioventricular septal defect (AVSD),	to 1000	12.48.94	12.04.20	Atrioventricular septal defect (AVSD): right atrioventricular valvar procedure,
	Fenestration procedure to chords of right atrioventricular valve in atrioventricular septal defect (AVSD),	to 1000	12.48.96	12.04.20	Atrioventricular septal defect (AVSD): right atrioventricular valvar procedure,
	Shortening plasty of chords of right atrioventricular valve in atrioventricular septal defect (AVSD),	to 1000	12.48.98	12.04.20	Atrioventricular septal defect (AVSD): right atrioventricular valvar procedure,
	Lengthening of chords of right atrioventricular valve in atrioventricular septal defect (AVSD),	to 1000	12.48.95	12.04.20	Atrioventricular septal defect (AVSD): right atrioventricular valvar procedure,
	Prosthetic replacement of chords of right atrioventricular valve in atrioventricular septal defect (AVSD),	to 1000	12.48.90	12.04.20	Atrioventricular septal defect (AVSD): right atrioventricular valvar procedure,
	Transfer of chords of right atrioventricular valve in atrioventricular septal defect (AVSD),	to 1000	12.48.86	12.04.20	Atrioventricular septal defect (AVSD): right atrioventricular valvar procedure,
1060	Procedure to left atrioventricular chords in atrioventricular septal defect (AVSD)				
	Procedure to left atrioventricular chords in atrioventricular septal defect (AVSD)	to 1000	12.48.94	12.04.40	Atrioventricular septal defect (AVSD): left atrioventricular valvar procedure,
	Chordal reconstruction of left atrioventricular valve in atrioventricular septal defect (AVSD),	to 1000	12.48.87	12.04.40	Atrioventricular septal defect (AVSD): left atrioventricular valvar procedure,
	Repair of ruptured chords of left atrioventricular valve in atrioventricular septal defect (AVSD),	to 1000	12.48.53	12.04.40	Atrioventricular septal defect (AVSD): left atrioventricular valvar procedure,
	Division of chords of left atrioventricular valve in atrioventricular septal defect (AVSD),	to 1000	12.48.55	12.04.40	Atrioventricular septal defect (AVSD): left atrioventricular valvar procedure,
	Resection of chords of left atrioventricular valve in atrioventricular septal defect (AVSD),	to 1000	12.48.88	12.04.40	Atrioventricular septal defect (AVSD): left atrioventricular valvar procedure,
	Fenestration procedure to chords of left atrioventricular valve in atrioventricular septal defect (AVSD),	to 1000	12.48.57	12.04.40	Atrioventricular septal defect (AVSD): left atrioventricular valvar procedure,
	Shortening plasty of chords of left atrioventricular valve in atrioventricular septal defect (AVSD),	to 1000	12.48.59	12.04.40	Atrioventricular septal defect (AVSD): left atrioventricular valvar procedure,
	Lengthening of chords of left atrioventricular valve in atrioventricular septal defect (AVSD),	to 1000	12.48.89	12.04.40	Atrioventricular septal defect (AVSD): left atrioventricular valvar procedure,
	Prosthetic replacement of chords of left atrioventricular valve in atrioventricular septal defect (AVSD),	to 1000	12.48.61	12.04.40	Atrioventricular septal defect (AVSD): left atrioventricular valvar procedure,
	Transfer of chords of left atrioventricular valve in atrioventricular septal defect (AVSD),	to 1000	12.48.90	12.04.40	Atrioventricular septal defect (AVSD): left atrioventricular valvar procedure,
1061 @	Specific Atrioventricular septal defect (AVSD) atrioventricular valvar leaflet and subvalvar apparatus involved in procedure - qualifiers				
	- right anterosuperior leaflet in atrioventricular septal defect (AVSD),	to 1000	Q1.05.81	not relevant	
	- right inferior-mural leaflet in atrioventricular septal defect (AVSD),	to 1000	Q1.05.82	not relevant	
	- superior bridging leaflet,	to 1000	Q1.05.83	not relevant	
	- inferior bridging leaflet,	to 1000	Q1.05.84	not relevant	
	- left lateral-mural leaflet in atrioventricular septal defect (AVSD),	to 1000	Q1.05.85	not relevant	
	- common atrioventricular valvar leaflet,	to 1000	Q5.52.89	not relevant	
	- Atrioventricular septal defect (AVSD) leaflet (DESCRIBE),	to 1000	Q1.05.86	not relevant	
	- leaflet(s) involved unknown or unspecified,	to 1000	Q1.01.78	not relevant	
	- right atrioventricular valve chords in atrioventricular septal defect (AVSD),	to 1000	Q1.05.91	not relevant	
	- left atrioventricular valve chords in atrioventricular septal defect (AVSD),	to 1000	Q1.05.87	not relevant	
	- chord(s) involved unknown or unspecified,	to 1000	Q1.05.88	not relevant	
	- right atrioventricular valve papillary muscle in atrioventricular septal defect (AVSD),	to 1000	Q1.05.89	not relevant	
	- left atrioventricular valve papillary muscle in atrioventricular septal defect (AVSD),	to 1000	Q1.05.90	not relevant	
	- papillary muscle(s) involved unknown or unspecified,	to 1000	Q1.01.79	not relevant	
	Qualifiers for patch, ring and augmentation materials	to 1608	not relevant		
	no entry	to 1000	not relevant		
1062 @	Atrioventricular valve leaflet repair (valvoplasty) procedure qualifiers				
	- commissurotomy,	to 1061	Q5.53.01	not relevant	
	- commissurotomy with annuloplasty ring,	to 1061	Q5.53.02	not relevant	
	- commissurotomy without annuloplasty,	to 1061	Q5.53.03	not relevant	
	- leaflet resection,	to 1061	Q5.53.04	not relevant	
	- leaflet resection: triangular,	to 1061	Q5.53.05	not relevant	
	- leaflet resection: quadrangular,	to 1061	Q5.53.06	not relevant	
	- leaflet augmentation,	to 1061	Q5.53.07	not relevant	
	- leaflet augmentation with patch used for closure of atrioventricular septal defect (AVSD) ventricular component,	to 1061	Q5.53.08	not relevant	
	- plication free edge reduction,	to 1061	Q5.53.09	not relevant	
	- fixation on secondary chords,	to 1061	Q5.53.10	not relevant	
	- radical reconstruction,	to 1061	Q5.53.11	not relevant	
	- radical reconstruction with prosthetic annuloplasty ring,	to 1061	Q5.53.12	not relevant	
	- radical reconstruction without annuloplasty,	to 1061	Q5.53.13	not relevant	
	no entry	to 1061	not relevant		
1063 @	Atrioventricular valve papillary muscle repair procedure qualifiers				
	- papillary muscle lengthening procedure,	to 1000	Q5.53.21	not relevant	
	- papillary muscle lengthening procedure: sliding plasty,	to 1000	Q5.53.22	not relevant	
	- papillary muscle lengthening procedure: concertina,	to 1000	Q5.53.23	not relevant	
	- papillary muscle lengthening procedure: coneiform resection,	to 1000	Q5.53.24	not relevant	
	- papillary muscle incision,	to 1000	Q5.53.25	not relevant	
	- papillary muscle shortening procedure,	to 1000	Q5.53.26	not relevant	
	- papillary muscle reimplantation,	to 1000	Q5.53.27	not relevant	
	- papillary muscle reimplantation with detachment,	to 1000	Q5.53.28	not relevant	
	- papillary muscle reimplantation without detachment,	to 1000	Q5.53.29	not relevant	
	- papillary muscle splitting,	to 1000	Q5.53.30	not relevant	
	no entry	to 1000	not relevant		
	_____ End of branch _____				
1068	Atrioventricular valvar procedures in double inlet ventricle				
	Right-sided atrioventricular valvar procedures in double inlet ventricle	to 1069	not relevant		
	Left-sided atrioventricular valvar procedures in double inlet ventricle	to 1074	not relevant		
	Atrioventricular valvar procedure in double inlet ventricle,	to 1000	12.46.00	12.46.00	Atrioventricular valvar procedure in double inlet ventricle,
1069	Right-sided atrioventricular valvar procedures in double inlet ventricle				
	Annuloplasty of right-sided atrioventricular valve in double inlet ventricle	to 1070	not relevant		
	Procedures to right-sided atrioventricular valvar papillary muscle in double inlet ventricle	to 1071	not relevant		
	Procedures to right-sided atrioventricular valvar chords in double inlet ventricle	to 1072	not relevant		
	Procedures to right-sided atrioventricular valvar leaflet (valvoplasty) in double inlet ventricle	to 1073	not relevant		
	Inspection of right-sided atrioventricular valve in double inlet ventricle,	to 1000	12.46.01	12.02.00	Tricuspid valvar procedure,
	Right-sided atrioventricular valvotomy in double inlet ventricle,	to 1000	12.46.02	12.02.00	Tricuspid valvar procedure,
	Closed right-sided atrioventricular valvotomy in double inlet ventricle,	to 1000	12.46.03	12.02.00	Tricuspid valvar procedure,
	Right-sided atrioventricular valvar replacement in double inlet ventricle,	to 1000	12.05.12	12.02.11	Tricuspid valvar replacement,
	Right-sided atrioventricular valvectomy in double inlet ventricle,	to 1000	12.46.06	12.02.22	Tricuspid valvectomy,
	Overswinging of right-sided atrioventricular valve in double inlet ventricle,	to 1000	12.46.07	12.02.70	Tricuspid valvar closure,
	Right-sided atrioventricular valve in double inlet ventricle closure using patch,	to 1608	12.46.08	12.02.70	Tricuspid valvar closure,
	Removal of thrombus from right-sided atrioventricular valve in double inlet ventricle,	to 1000	12.46.09	12.32.22	Removal of cardiac thrombus,
	Excision of vegetations from right-sided atrioventricular valve in double inlet ventricle,	to 1000	12.46.10	12.32.20	Removal of cardiac vegetations,
	Decalcification of right-sided atrioventricular valve in double inlet ventricle,	to 1000	12.46.11	12.02.00	Tricuspid valvar procedure,
	Implanted right-sided atrioventricular valvar procedure in double inlet ventricle,	to 1605	12.05.32	12.02.00	Tricuspid valvar procedure,
	Replacement of implanted right-sided atrioventricular valve in double inlet ventricle,	to 1600	12.05.33	12.02.11	Tricuspid valvar replacement,
	Right-sided atrioventricular valvar procedure in double inlet ventricle,	to 1000	12.46.19	12.02.00	Tricuspid valvar procedure,
1070	Annuloplasty of right-sided atrioventricular valve in double inlet ventricle				
	Annuloplasty of right-sided atrioventricular valve in double inlet ventricle,	to 1000	12.46.21	12.02.04	Tricuspid valvar annuloplasty,
	Annuloplasty of right-sided atrioventricular valve in double inlet ventricle using ring,	to 1640	12.46.22	12.02.04	Tricuspid valvar annuloplasty,
	Plication annuloplasty of right-sided atrioventricular valve in double inlet ventricle,	to 1000	12.46.23	12.02.04	Tricuspid valvar annuloplasty,
1071	Procedures to right-sided atrioventricular valvar papillary muscle in double inlet ventricle				
	Procedure to right-sided atrioventricular valvar papillary muscle in double inlet ventricle,	to 1000	12.46.30	12.02.00	Tricuspid valvar procedure,
	Lengthening (sliding plasty) procedure to right-sided atrioventricular valvar papillary muscle in double inlet ventricle,	to 1000	12.46.31	12.02.00	Tricuspid valvar procedure,

	Shortening procedure to right-sided atrioventricular valvar papillary muscle in double inlet ventricle,	to 1000	12.46.32	12.02.00	Tricuspid valvar procedure,
	Reimplantation of right-sided atrioventricular valvar papillary muscle in double inlet ventricle,	to 1000	12.46.33	12.02.00	Tricuspid valvar procedure,
1072	Procedures to right-sided atrioventricular valvar chords in double inlet ventricle				
	Procedure to right-sided atrioventricular valvar chords in double inlet ventricle,	to 1000	12.46.40	12.02.00	Tricuspid valvar procedure,
	Repair of ruptured right-sided atrioventricular valvar chords in double inlet ventricle,	to 1000	12.46.41	12.02.00	Tricuspid valvar procedure,
	Division/resection of right-sided atrioventricular valvar chords in double inlet ventricle,	to 1000	12.46.42	12.02.00	Tricuspid valvar procedure,
	Fenestration procedure to right-sided atrioventricular valvar chords in double inlet ventricle,	to 1000	12.46.43	12.02.00	Tricuspid valvar procedure,
	Shortening plasty of right-sided atrioventricular valvar chords in double inlet ventricle,	to 1000	12.46.44	12.02.00	Tricuspid valvar procedure,
	Prosthetic replacement of right-sided atrioventricular valvar chords in double inlet ventricle,	to 1000	12.46.45	12.02.00	Tricuspid valvar procedure,
1073	Right-sided atrioventricular valvar leaflet (valvoplasty) procedures in double inlet ventricle				
	Right-sided atrioventricular valvar leaflet (valvoplasty) procedure in double inlet ventricle,	to 1000	12.46.50	12.02.02	Tricuspid leaflet (valvoplasty) procedure,
	Repair of defect in right-sided atrioventricular valvar leaflet in double inlet ventricle by direct suture,	to 1603	12.46.51	12.02.02	Tricuspid leaflet (valvoplasty) procedure,
	Repair of defect in right-sided atrioventricular valvar leaflet in double inlet ventricle with patch,	to 1608	12.46.52	12.02.02	Tricuspid leaflet (valvoplasty) procedure,
	Resection of right-sided atrioventricular valvar leaflet in double inlet ventricle,	to 1000	12.46.53	12.02.02	Tricuspid leaflet (valvoplasty) procedure,
	Closure of true right-sided atrioventricular valvar cleft in double inlet ventricle,	to 1000	12.46.54	12.02.02	Tricuspid leaflet (valvoplasty) procedure,
	Excision of nodule/fibrous thickening from right-sided atrioventricular valvar leaflet in double inlet ventricle,	to 1000	12.46.55	12.02.02	Tricuspid leaflet (valvoplasty) procedure,
	Repair (valvoplasty) of Ebstein's malformation of right-sided atrioventricular valve in double inlet ventricle,	to 1000	12.46.05	12.02.02	Tricuspid leaflet (valvoplasty) procedure,
1074	Left-sided atrioventricular valvar procedures in double inlet ventricle				
	Annuloplasty of left-sided atrioventricular valve in double inlet ventricle	to 1075	not relevant		
	Procedures to left-sided atrioventricular valvar papillary muscle in double inlet ventricle	to 1076	not relevant		
	Procedures to left-sided atrioventricular valvar chords in double inlet ventricle	to 1077	not relevant		
	Procedures to left-sided atrioventricular valvar leaflet (valvoplasty) in double inlet ventricle	to 1078	not relevant		
	Inspection of left-sided atrioventricular valve in double inlet ventricle,	to 1000	12.47.01	12.03.00	Mitral valvar procedure,
	Left-sided atrioventricular valvotomy in double inlet ventricle,	to 1000	12.47.02	12.03.00	Mitral valvar procedure,
	Closed left-sided atrioventricular valvotomy in double inlet ventricle,	to 1000	12.47.03	12.03.00	Mitral valvar procedure,
	Left-sided atrioventricular valvar replacement in double inlet ventricle,	to 1600	12.05.13	12.03.11	Mitral valvar replacement,
	Left-sided atrioventricular valvectomy in double inlet ventricle,	to 1000	12.47.06	12.03.00	Mitral valvar procedure,
	Oversewing of left-sided atrioventricular valve in double inlet ventricle,	to 1000	12.47.07	12.03.00	Mitral valvar procedure,
	Left-sided atrioventricular valve in double inlet ventricle closure using patch,	to 1608	12.47.08	12.03.00	Mitral valvar procedure,
	Removal of thrombus from left-sided atrioventricular valve in double inlet ventricle,	to 1000	12.47.09	12.32.22	Removal of cardiac thrombus,
	Excision of vegetations from left-sided atrioventricular valve in double inlet ventricle,	to 1000	12.47.10	12.32.20	Removal of cardiac vegetations,
	Decalcification of left-sided atrioventricular valve in double inlet ventricle,	to 1000	12.47.11	12.03.00	Mitral valvar procedure,
	Implanted left-sided atrioventricular valvar procedure in double inlet ventricle,	to 1605	12.05.34	12.03.00	Mitral valvar procedure,
	Replacement of implanted left-sided atrioventricular valve in double inlet ventricle,	to 1600	12.05.35	12.03.11	Mitral valvar replacement,
	Left-sided atrioventricular valvar procedure in double inlet ventricle,	to 1000	12.47.19	12.03.00	Mitral valvar procedure,
1075	Annuloplasty of left-sided atrioventricular valve in double inlet ventricle				
	Annuloplasty of left-sided atrioventricular valve in double inlet ventricle,	to 1000	12.47.21	12.03.04	Mitral valvar annuloplasty,
	Annuloplasty of left-sided atrioventricular valve using ring in double inlet ventricle,	to 1640	12.47.22	12.03.04	Mitral valvar annuloplasty,
	Plication annuloplasty of left-sided atrioventricular valve in double inlet ventricle,	to 1000	12.47.23	12.03.04	Mitral valvar annuloplasty,
1076	Procedures to left-sided atrioventricular valvar papillary muscle in double inlet ventricle				
	Procedure to left-sided atrioventricular valvar papillary muscle in double inlet ventricle,	to 1000	12.47.30	12.03.19	Mitral subvalvar apparatus procedure,
	Lengthening (sliding plasty) procedure to left-sided atrioventricular valvar papillary muscle in double inlet ventricle,	to 1000	12.47.31	12.03.19	Mitral subvalvar apparatus procedure,
	Shortening procedure to left-sided atrioventricular valvar papillary muscle in double inlet ventricle,	to 1000	12.47.32	12.03.19	Mitral subvalvar apparatus procedure,
	Reimplantation of left-sided atrioventricular valvar papillary muscle in double inlet ventricle,	to 1000	12.47.33	12.03.19	Mitral subvalvar apparatus procedure,
1077	Procedures to left-sided atrioventricular valvar chords in double inlet ventricle				
	Procedure to left-sided atrioventricular valvar chords in double inlet ventricle,	to 1000	12.47.40	12.03.19	Mitral subvalvar apparatus procedure,
	Repair of ruptured left-sided atrioventricular valvar chords in double inlet ventricle,	to 1000	12.47.41	12.03.19	Mitral subvalvar apparatus procedure,
	Division/resection of left-sided atrioventricular valvar chords in double inlet ventricle,	to 1000	12.47.42	12.03.19	Mitral subvalvar apparatus procedure,
	Fenestration procedure to left-sided atrioventricular valvar chords in double inlet ventricle,	to 1000	12.47.43	12.03.19	Mitral subvalvar apparatus procedure,
	Shortening plasty of left-sided atrioventricular valvar chords in double inlet ventricle,	to 1000	12.47.44	12.03.19	Mitral subvalvar apparatus procedure,
	Prosthetic replacement of left-sided atrioventricular valvar chords in double inlet ventricle,	to 1000	12.47.45	12.03.19	Mitral subvalvar apparatus procedure,
1078	Left-sided atrioventricular valvar leaflet (valvoplasty) procedures in double inlet ventricle				
	Left-sided atrioventricular valvar leaflet (valvoplasty) procedure in double inlet ventricle,	to 1000	12.47.50	12.03.03	Mitral leaflet (valvoplasty) procedure,
	Repair of defect in left-sided atrioventricular valvar leaflet in double inlet ventricle by direct suture,	to 1603	12.47.51	12.03.03	Mitral leaflet (valvoplasty) procedure,
	Repair of defect in left-sided atrioventricular valvar leaflet in double inlet ventricle with patch,	to 1608	12.47.52	12.03.03	Mitral leaflet (valvoplasty) procedure,
	Resection of left-sided atrioventricular valvar leaflet in double inlet ventricle,	to 1000	12.47.53	12.03.03	Mitral leaflet (valvoplasty) procedure,
	Closure of true left-sided atrioventricular valvar leaflet cleft in double inlet ventricle,	to 1000	12.47.54	12.03.03	Mitral leaflet (valvoplasty) procedure,
	Excision of nodule/fibrous thickening from left-sided atrioventricular valvar leaflet in double inlet ventricle,	to 1000	12.47.57	12.03.03	Mitral leaflet (valvoplasty) procedure,
	Repair (valvoplasty) of Ebstein's malformation of left-sided atrioventricular valve in double inlet ventricle,	to 1000	12.47.05	12.03.03	Mitral leaflet (valvoplasty) procedure,
	End of branch				
1080	Ventricular, ventricular outflow tract & ventricular septal procedures				
	Transluminal/catheter procedures involving ventricles, outflow tracts & ventricular septum	to 1430	not relevant		
	Transluminal/catheter procedures involving the ventricular septum	to 1435	not relevant		
	Right ventricular procedures	to 1082	not relevant		
	Right ventricular outflow tract & subpulmonary procedures and conduits	to 1085	not relevant		
	Left ventricular procedures	to 1090	not relevant		
	Left ventricular outflow tract & subaortic procedures and conduits	to 1095	not relevant		
	Ventricular septal defect (VSD) procedures	to 1100	not relevant		
	Ventricular septal defect (VSD) repair modification or takedown	to 1102	not relevant		
	Subarterial outlet obstruction (not Fallot) procedures	to 1105	not relevant		
	Ventricular septation procedure,	to 1608	12.09.01	12.09.01	Ventricular septation procedure,
	Partial ventricular septation (Ebstein),	to 1608	12.09.05	12.09.01	Ventricular septation procedure,
	Completion of ventricular septation,	to 1608	12.09.06	12.09.01	Ventricular septation procedure,
	Endocardiotomy procedure,	to 1000	12.09.07	12.32.21	Cardiac procedure,
	Ventricular remodelling procedure,	to 1000	12.09.08	12.32.21	Cardiac procedure,
	Ventriculoplasty,	to 1000	12.09.10	12.32.21	Cardiac procedure,
	Ventricular septal myectomy-myotomy,	to 1000	12.09.12	12.32.21	Cardiac procedure,
	Intraventricular tunnel procedure,	to 1000	12.09.11	12.32.21	Cardiac procedure,
	Approach to repair intraventricular lesion - qualifiers	to 1787	not relevant		
1082	Right ventricular procedures				
	Right ventricular procedure,	to 1000	12.06.26	12.06.26	Right ventricular procedure,
	Right ventricular plication procedure	to 1083	not relevant		
	Right ventricular muscle resection,	to 1000	12.06.20	12.06.26	Right ventricular procedure,
	Septomarginal trabeculation resection,	to 1000	12.06.21	12.06.26	Right ventricular procedure,
	Right ventricular muscle band/bundle(s) resection,	to 1000	12.06.22	12.06.26	Right ventricular procedure,
	Right ventricular endocardiotomy,	to 1000	12.06.27	12.06.26	Right ventricular procedure,
	Open right ventricular biopsy,	to 1000	12.06.28	12.06.26	Right ventricular procedure,
	Right ventricular lesion excision,	to 1000	12.06.30	12.06.26	Right ventricular procedure,
	Right ventricular vegetations excision,	to 1000	12.06.31	12.32.20	Removal of cardiac vegetations,
	Right ventricular thrombus removal,	to 1000	12.06.32	12.32.22	Removal of cardiac thrombus,
	Right ventricular catheter open insertion,	to 1000	12.06.33	12.06.26	Right ventricular procedure,
	Transmyocardial laser revascularisation of right ventricle,	to 1000	12.06.34	12.06.26	Right ventricular procedure,
	Double chambered right ventricle repair,	to 1000	12.06.35	12.06.35	Double chambered right ventricle repair,
	Removal of foreign body from right ventricle,	to 1000	12.06.36	12.06.26	Right ventricular procedure,
	Right ventricular remodelling procedure,	to 1000	12.06.37	12.06.26	Right ventricular procedure,
	Right ventricular aneurysm repair,	to 1000	12.06.38	12.06.38	Right ventricular aneurysm repair,
	Right ventricular thromboexclusion procedure,	to 1660	12.06.40	12.06.26	Right ventricular procedure,
1083	Right ventricular plication procedure				
	Right ventricular plication,	to 1000	12.06.71	12.06.26	Right ventricular procedure,
	Right ventricular plication: transverse,	to 1000	12.06.72	12.06.26	Right ventricular procedure,
	Right ventricular plication: longitudinal,	to 1000	12.06.73	12.06.26	Right ventricular procedure,
	Right ventricular plication: internal,	to 1000	12.06.74	12.06.26	Right ventricular procedure,
	Right ventricular plication: external,	to 1000	12.06.75	12.06.26	Right ventricular procedure,
1085	Right ventricular outflow tract & subpulmonary procedures and conduits				
	Right ventricular outflow tract procedure,	to 1000	12.06.00	12.06.00	Right ventricular outflow tract procedure,
	Right ventricular outflow tract obstruction relief,	to 1000	12.06.41	12.06.41	Right ventricular outflow tract obstruction relief,
	Right ventricular outflow tract obstruction relief with patch,	to 1608	12.06.44	12.06.41	Right ventricular outflow tract obstruction relief,
	Right ventricular outflow tract obstruction relief with conduit,	to 1630	12.06.45	12.06.41	Right ventricular outflow tract obstruction relief,
	Right ventricular outflow tract reconstruction,	to 1000	12.06.46	12.06.41	Right ventricular outflow tract obstruction relief,
	Right ventricular outflow tract reconstruction with conduit,	to 1630	12.06.60	12.06.41	Right ventricular outflow tract obstruction relief,
	Right ventricular outflow tract reconstruction with patch,	to 1086	12.06.61	12.06.41	Right ventricular outflow tract obstruction relief,
	Right ventricular outflow tract reconstruction with nontransannular patch,	to 1086	12.06.62	12.06.41	Right ventricular outflow tract obstruction relief,
	Subpulmonary obstruction relief,	to 1000	12.08.21	12.08.21	Subpulmonary obstruction relief,
	Subpulmonary obstruction relief: resection,	to 1096	12.06.64	12.08.21	Subpulmonary obstruction relief,
	Right ventricular outflow tract muscle resection-myotomy,	to 1096	12.06.01	12.06.41	Right ventricular outflow tract obstruction relief,
	Right ventricular outflow tract myotomy,	to 1096	12.06.02	12.06.41	Right ventricular outflow tract obstruction relief,
	Right ventricular outflow tract reconstruction: dilation patch placement (PV intact),	to 1608	12.06.04	12.06.41	Right ventricular outflow tract obstruction relief,
	Right ventricular outflow tract reconstruction: subpulmonary & pulmonary trunk patches (PV intact),	to 1086	12.06.03	12.06.41	Right ventricular outflow tract obstruction relief,
	Right ventricular outflow tract reconstruction: transannular patch,	to 1086	12.06.06	12.06.41	Right ventricular outflow tract obstruction relief,

Right ventricular outflow tract reconstruction: transannular patch & constructed monocuspid valve,	to 1086	12.06.47	12.06.41	Right ventricular outflow tract obstruction relief,
Right ventricular outflow tract reconstruction: transannular patch & constructed bicuspid valve,	to 1086	12.06.49	12.06.41	Right ventricular outflow tract obstruction relief,
Right ventricular outflow tract reconstruction: transannular patch (valveless),	to 1086	12.06.63	12.06.41	Right ventricular outflow tract obstruction relief,
Right ventricular outflow tract decalcification,	to 1000	12.06.66	12.06.41	Right ventricular outflow tract obstruction relief,
Right ventricle-pulmonary arterial anastomosis (REV-type) obstruction relief,	to 1000	12.06.67	12.06.41	Right ventricular outflow tract obstruction relief,
Intraoperative removal of right ventricular outflow tract stent,	to 1650	12.06.65	12.06.00	Right ventricular outflow tract procedure,
One and one half (1.5) ventricle repair	to 1255	not relevant		
Right ventricular outflow tract transluminal laser procedure,	to 1000	12.06.07	12.06.41	Right ventricular outflow tract obstruction relief,
Right ventricle to pulmonary artery direct anastomosis (REV-type),	to 1229	12.06.42	12.06.41	Right ventricular outflow tract obstruction relief,
Right ventricle to pulmonary artery valveless conduit construction,	to 1630	12.06.12	12.06.41	Right ventricular outflow tract obstruction relief,
Right ventricle to pulmonary trunk conduit construction,	to 1630	12.06.11	12.36.01	Right ventricle to pulmonary arterial tree conduit construction,
Right ventricle to aorta conduit construction,	to 1630	12.36.03	12.36.35	Ventricle to aorta conduit construction,
Right ventricle to pulmonary arterial tree conduit construction,	to 1630	12.36.01	12.36.01	Right ventricle to pulmonary arterial tree conduit construction,
Right ventricle to pulmonary artery valved conduit construction,	to 1000	12.07.27	12.07.26	Left ventricular procedure,
Right ventricle to right pulmonary artery conduit construction,	to 1630	12.06.50	12.07.38	Partial left ventriculectomy-volume reduction (Batisia),
Right ventricle to left pulmonary artery conduit construction,	to 1630	12.36.21	12.07.26	Left ventricular procedure,
Right ventricle to left pulmonary artery conduit construction,	to 1630	12.36.22	12.07.26	Left ventricular procedure,
Right ventricle to right + left pulmonary artery conduit construction,	to 1630	12.36.18	12.36.01	Right ventricle to pulmonary arterial tree conduit construction,
no entry	to 1000	not relevant		Right ventricle to pulmonary arterial tree conduit construction,
1086 @ Distal extent of right ventricular outflow tract patch				
- patch to pulmonary trunk only,	to 1608	Q5.06.51	not relevant	
- patch to pulmonary bifurcation,	to 1608	Q5.06.52	not relevant	
- patch to right pulmonary artery,	to 1608	Q5.06.53	not relevant	
- patch to left pulmonary artery,	to 1608	Q5.06.54	not relevant	
- patch to right + left pulmonary arteries,	to 1608	Q5.06.55	not relevant	
- reverse pulmonary trunk patch,	to 1608	Q5.06.67	not relevant	
- extraannular patch with native pulmonary valve preservation & reverse pulmonary trunk patch,	to 1608	Q5.06.65	not relevant	
- extraannular patch with native pulmonary valve preservation & no reverse pulmonary trunk patch,	to 1608	Q5.06.66	not relevant	
- with constructed monocuspid valve,	to 1608	Q5.06.68	not relevant	
- with constructed bicuspid valve,	to 1608	Q5.06.69	not relevant	
no entry	to 1608	not relevant		
1090 Left ventricle procedures				
Left ventricular procedure,	to 1000	12.07.26	12.07.26	Left ventricular procedure,
Left ventricular muscle resection,	to 1000	12.07.22	12.07.26	Left ventricular procedure,
Left ventricular endocardectomy,	to 1000	12.07.27	12.07.26	Left ventricular procedure,
Partial left ventriculectomy-volume reduction (Batisia),	to 1000	12.07.38	12.07.38	Partial left ventriculectomy-volume reduction (Batisia),
Left ventricular remodelling (reconstructive) procedure,	to 1000	12.07.41	12.07.26	Left ventricular procedure,
Left ventricular remodelling (reconstructive) procedure: endoventricular circular plasty (Dor),	to 1000	12.07.42	12.07.26	Left ventricular procedure,
Left ventricular remodelling (reconstructive) procedure: endoventricular circular plasty (Dor); with patch,	to 1000	12.07.43	12.07.26	Left ventricular procedure,
Left ventricular remodelling (reconstructive) procedure: endoventricular circular plasty (modified Dor); without patch,	to 1000	12.07.44	12.07.26	Left ventricular procedure,
Open left ventricular biopsy,	to 1000	12.07.28	12.07.26	Left ventricular procedure,
Left ventricular lesion excision,	to 1000	12.07.30	12.07.26	Left ventricular procedure,
Left ventricular vegetations excision,	to 1000	12.07.31	12.32.20	Removal of cardiac vegetations,
Left ventricular thrombus removal,	to 1000	12.07.32	12.32.22	Removal of cardiac thrombus,
Left ventricular aneurysm repair,	to 1000	12.07.37	12.07.37	Left ventricular aneurysm repair,
Left ventricular aneurysm plication,	to 1000	12.07.33	12.07.37	Left ventricular aneurysm repair,
Left ventricular aneurysm resection,	to 1000	12.07.34	12.07.37	Left ventricular aneurysm repair,
Left ventricular aneurysm resection with patch closure,	to 1608	12.07.35	12.07.37	Left ventricular aneurysm repair,
Transmyocardial laser revascularisation of left ventricle,	to 1000	12.07.36	12.07.26	Left ventricular procedure,
Removal of foreign body from left ventricle,	to 1000	12.07.40	12.07.26	Left ventricular procedure,
1095 Left ventricular outflow tract and subaortic procedures and conduits				
Left ventricular outflow tract procedure,	to 1000	12.07.00	12.07.00	Left ventricular outflow tract procedure,
Left ventricular outflow tract obstruction relief,	to 1096	12.07.13	12.07.13	Left ventricular outflow tract obstruction relief,
Subaortic obstruction relief,	to 1096	12.08.22	12.08.22	Subaortic obstruction relief,
Subaortic fibromuscular shell resection,	to 1096	12.07.01	12.07.01	Subaortic fibromuscular shell resection,
Subaortic myotomy,	to 1000	12.08.23	12.08.22	Subaortic obstruction relief,
Subaortic myectomy,	to 1000	12.08.24	12.08.22	Subaortic obstruction relief,
Left ventricular outflow tract myectomy-myotomy,	to 1000	12.07.11	12.07.11	Subaortic obstruction relief,
Left ventricular outflow tract obstruction relief: complex (Konno etc),	to 1096	12.07.12	12.07.12	Left ventricular outflow tract myectomy-myotomy,
Left ventricular outflow tract muscle resection,	to 1096	12.07.02	12.07.11	Left ventricular outflow tract obstruction relief: complex (Konno etc),
Left ventricular outflow tract myotomy,	to 1000	12.07.03	12.07.11	Left ventricular outflow tract myectomy-myotomy,
Aortoventriculoplasty,	to 1000	12.07.45	12.07.12	Left ventricular outflow tract obstruction relief: complex (Konno etc),
Aortoventriculoplasty with aortic valve replacement (Konno),	to 1000	12.07.05	12.07.12	Left ventricular outflow tract obstruction relief: complex (Konno etc),
Aortoventriculoplasty: Konno procedure with aortoventricular groove patch plasty,	to 1000	12.07.46	12.07.12	Left ventricular outflow tract obstruction relief: complex (Konno etc),
Aortoventriculoplasty: non-Konno,	to 1000	12.07.04	12.07.12	Left ventricular outflow tract obstruction relief: complex (Konno etc),
Aortoventriculoplasty: valve sparing without annular reconstruction (modified Konno),	to 1000	12.07.16	12.07.12	Left ventricular outflow tract obstruction relief: complex (Konno etc),
Aortoventriculoplasty: valve sparing & 'annular' reconstruction (Vouhe),	to 1000	12.07.17	12.07.12	Left ventricular outflow tract obstruction relief: complex (Konno etc),
Aortoventriculoplasty (other than Konno variant or Vouhe),	to 1000	12.07.47	12.07.12	Left ventricular outflow tract obstruction relief: complex (Konno etc),
Left ventricular outflow tract transannular patch placement,	to 1608	12.07.08	12.07.13	Left ventricular outflow tract obstruction relief,
Left ventricular outflow tract obstruction relief by liberation of superior bridging leaflet using patch,	to 1608	12.48.10	12.07.13	Left ventricular outflow tract obstruction relief,
Left ventricular outflow tract obstruction relief by transluminal septal radiofrequency,	to 1000	12.07.14	12.07.13	Left ventricular outflow tract obstruction relief,
Left ventricular outflow tract obstruction relief by dual chamber pacing,	to 1300	12.07.15	12.07.13	Left ventricular outflow tract obstruction relief,
Left ventricular apex to aorta conduit construction,	to 1630	12.07.18	12.36.35	Ventricle to aorta conduit construction,
Left ventricle to ascending aorta conduit construction,	to 1630	12.36.04	12.36.35	Ventricle to aorta conduit construction,
Left ventricular apex to descending aorta conduit construction,	to 1630	12.07.06	12.36.35	Ventricle to aorta conduit construction,
Left ventricle to pulmonary artery conduit construction,	to 1630	12.36.02	12.36.02	Left ventricle to pulmonary artery conduit construction,
1096 @ Outflow tract & subvalvar surgical qualifiers				
- peeling off anterior mitral valve leaflet,	to 1000	Q5.07.81	not relevant	
- peeling off from underside of aortic valve cusps(s),	to 1000	Q5.07.82	not relevant	
- muscular outlet (infundibular or conal) septum,	to 1000	Q5.07.86	not relevant	
- septoparietal muscle,	to 1000	Q5.07.87	not relevant	
- blunt resection,	to 1000	Q5.07.83	not relevant	
- sharp resection,	to 1000	Q5.07.84	not relevant	
- sharp & blunt resection,	to 1000	Q5.07.85	not relevant	
no entry	to 1000	not relevant		
1100 Ventricular septal defect (VSD) procedures				
Ventricular septal defect (VSD) closure,	to 1101	12.08.01	12.08.01	Ventricular septal defect (VSD) closure,
Ventricular septal defect (VSD) closure by direct suture,	to 1101	12.08.02	12.08.02	Ventricular septal defect (VSD) closure by direct suture,
Ventricular septal defect (VSD) closure using patch,	to 1101	12.08.03	12.08.03	Ventricular septal defect (VSD) closure using patch,
Ventricular septal defect (VSD) closure using fenestrated patch,	to 1101	12.08.08	12.08.03	Ventricular septal defect (VSD) closure using patch,
Intraoperative ventricular septal defect (VSD) closure with transluminal device (hybrid approach),	to 1660	12.08.28	12.08.28	Intraoperative ventricular septal defect (VSD) closure with transluminal device (hybrid approach),
Intraoperative pericardial ventricular septal defect (VSD) closure with transluminal device (hybrid approach),	to 1660	12.08.64	12.08.28	Intraoperative ventricular septal defect (VSD) closure with transluminal device (hybrid approach),
Ventricular septal defect (VSD) closure with patch to accommodate straddling atriocentric valve papillary muscle,	to 1101	12.08.09	12.08.03	Ventricular septal defect (VSD) closure using patch,
Ventricular septal defect (VSD) closure with patch incorporating straddling chords by slitting patch,	to 1101	12.08.26	12.08.03	Ventricular septal defect (VSD) closure using patch,
Ventricular septal defect (VSD) closure with patch and left ventricular wall resection,	to 1101	12.08.10	12.08.03	Ventricular septal defect (VSD) closure using patch,
Closure of multiple ventricular septal defect (VSD)s,	to 1101	12.08.16	12.08.16	Closure of multiple ventricular septal defect (VSD)s,
Ventricular septal defect (VSD) closure with tricuspid valve leaflet detachment/ incision & repair,	to 1101	12.08.29	12.08.01	Ventricular septal defect (VSD) closure,
Ventricular septal defect (VSD) closure with tricuspid valve leaflet detachment/ incision & repair - circumferential,	to 1101	12.08.30	12.08.01	Ventricular septal defect (VSD) closure,
Ventricular septal defect (VSD) closure with tricuspid valve leaflet detachment/ incision & repair - radial,	to 1101	12.08.31	12.08.01	Ventricular septal defect (VSD) closure,
Ventricular septal defect (VSD) closure with tricuspid valve leaflet resection,	to 1101	12.08.32	12.08.01	Ventricular septal defect (VSD) closure,
Ventricular septal defect (VSD) closure with tricuspid chordal detachment & reimplantation,	to 1101	12.08.48	12.08.01	Ventricular septal defect (VSD) closure,
Ventricular septal defect (VSD) closure with tricuspid papillary muscle detachment & reimplantation,	to 1101	12.08.33	12.08.01	Ventricular septal defect (VSD) closure,
Ventricular septal defect (VSD) closure with tricuspid papillary muscle translocation,	to 1101	12.08.34	12.08.01	Ventricular septal defect (VSD) closure,
Ventricular septal defect (VSD) left unclosed,	to 1101	12.08.17	No equivalent	No equivalent
Ventricular septal defect (VSD) left unclosed - intentionally,	to 1101	12.08.41	No equivalent	No equivalent
Ventricular septal defect (VSD) left unclosed - inadvertently,	to 1101	12.08.42	No equivalent	No equivalent
Ventricular septal defect (VSD) enlargement/ creation,	to 1101	12.08.35	12.08.35	Ventricular septal defect (VSD) enlargement/ creation,
Ventricular septal defect (VSD) creation,	to 1101	12.08.43	12.08.35	Ventricular septal defect (VSD) enlargement/ creation,
Ventricular septal defect (VSD) enlargement,	to 1101	12.08.06	12.08.06	Ventricular septal defect (VSD) enlargement,
Ventricular septal defect (VSD) translocation,	to 1787	12.08.45	12.08.35	Ventricular septal defect (VSD) enlargement/ creation,
Ventricular septal defect (VSD) translocation: inlet to outlet,	to 1787	12.08.68	12.08.35	Ventricular septal defect (VSD) enlargement/ creation,
Therapeutic ventricular septal defect (VSD) creation,	to 1101	12.08.27	12.08.35	Ventricular septal defect (VSD) enlargement/ creation,
Ventricular septal defect (VSD) partial closure,	to 1101	12.08.47	12.08.35	Ventricular septal defect (VSD) enlargement/ creation,
Ventricular septal defect (VSD) patch fenestration,	to 1101	12.08.44	12.08.35	Ventricular septal defect (VSD) enlargement/ creation,
Ventricular septum fenestration,	to 1101	12.08.46	12.08.35	Ventricular septal defect (VSD) enlargement/ creation,
Ventricular septal defect (VSD) repair modification or takedown	to 1102	not relevant		
Approach to close ventricular septal defect (VSD)	to 1787	not relevant		
1101 @ Type of ventricular septal defect (VSD) involved in procedure - qualifiers				
- unspecified type,	to 1103	Q5.08.61	not relevant	
- perimembranous,	to 1103	Q5.08.62	not relevant	
- perimembranous inlet,	to 1103	Q5.08.63	not relevant	
- perimembranous trabecular,	to 1103	Q5.08.64	not relevant	
- perimembranous outlet,	to 1103	Q5.08.65	not relevant	
- perimembranous confluent,	to 1103	Q5.08.66	not relevant	
- ventricular septal defect + malaligned outlet septum,	to 1103	Q5.08.67	not relevant	
- outlet-subarterial,	to 1103	Q5.08.68	not relevant	
- doubly committed subarterial,	to 1103	Q5.08.69	not relevant	
- inlet,	to 1103	Q5.08.70	not relevant	
- ventricular component of atriocentric septal defect (AVSD),	to 1103	Q5.08.71	not relevant	

- muscular,	to 1103	Q5.08.72		not relevant
- muscular inlet,	to 1103	Q5.08.73		not relevant
- muscular in central trabecular septum,	to 1103	Q5.08.74		not relevant
- muscular apical trabecular,	to 1103	Q5.08.75		not relevant
- muscular marginal-anterior,	to 1103	Q5.08.76		not relevant
- muscular outlet,	to 1103	Q5.08.77		not relevant
- ventricular septal defect in double outlet ventriculo-arterial connection,	to 1103	Q5.08.78		not relevant
- left ventricle-right atrium communication (Gerbode),	to 1103	Q5.08.79		not relevant
- residual ventricular septal defect,	to 1103	Q5.08.80		not relevant
- iatrogenically created ventricular septal defect,	to 1103	Q5.08.81		not relevant
- ventricular septal defect patch fenestration,	to 1103	Q5.08.82		not relevant
- post traumatic ventricular septal defect,	to 1103	Q5.08.83		not relevant
- postmyocardial infarct,	to 1103	Q5.08.84		not relevant
- involved ventricular septal defect (DESCRIBE),	to 1103	Q5.08.85		not relevant
Characteristics of created ventricular septal defect	to 1103	not relevant		not relevant
no entry	to 1103	not relevant		not relevant
1102 Ventricular septal defect repair modification or takedown				
Removal of patch from site of ventricular septal defect (VSD) closure,	to 1101	12.08.18	12.32.21	Cardiac procedure,
Open fenestration of ventricular septal defect (VSD) patch,	to 1101	12.08.19	12.08.19	Open fenestration of VSD patch,
Takedown of ventricular septal defect (VSD) repair,	to 1101	12.08.36	12.32.21	Cardiac procedure,
Takedown of ventricular septal defect (VSD) direct suture repair,	to 1101	12.08.37	12.32.21	Cardiac procedure,
Removal of ventricular septal defect (VSD) implanted device,	to 1101	12.08.38	12.33.60	Operation related to transcatheter procedure,
Takedown of ventricular septal defect (VSD) direct suture repair with conversion to patch closure,	to 1101	12.08.39	12.32.21	Cardiac procedure,
1103 @ Ventricular septal defect (VSD) closure qualifiers				
Suturing techniques - qualifiers	to 1603	not relevant		
Patch materials - qualifiers	to 1608	not relevant		
Ventricular septal defect (VSD) closure device - qualifiers	to 1660	not relevant		
- leaving communication open,	to 1000	Q5.08.41		not relevant
- leaving communication partially open,	to 1000	Q5.08.42		not relevant
no entry	to 1000	not relevant		
1105 Subarterial outlet obstruction (not Fallot) procedures				
Subpulmonary obstruction relief,	to 1096	12.08.21	12.08.21	Subpulmonary obstruction relief,
Subpulmonary obstruction relief: resection,	to 1096	12.06.64	12.08.21	Subpulmonary obstruction relief,
Subaortic obstruction relief,	to 1096	12.08.22	12.08.22	Subaortic obstruction relief,
Subarterial outlet septum (infundibulum) resection,	to 1096	12.08.50	12.32.21	Cardiac procedure,
Subarterial outlet septum (infundibulum) procedure,	to 1000	12.08.25	12.32.21	Cardiac procedure,

End of branch				
1110 Arterial valve and great artery procedures				
Arterial valvar transluminal/ transcatheter procedures	to 1438	not relevant		
Pulmonary arterial transluminal/ transcatheter procedures	to 1442	not relevant		
Transluminal/catheter procedures involving AP window, aorta, systemic arteries & arterial duct	to 1450	not relevant		
Common arterial trunk (truncus arteriosus) and truncal valvar procedures	to 1115	not relevant		
Pulmonary valvar, trunk and arterial procedures	to 1120	not relevant		
Aortic valvar & root, sinuses of Valsalva procedures	to 1140	not relevant		
Aortopulmonary window procedures	to 1150	not relevant		
Aorta and aortic branch procedures	to 1155	not relevant		
Arterial duct (ductus arteriosus) & ligament procedures	to 1180	not relevant		
Arteriovenous fistula(s) procedures	to 1190	not relevant		
Approach to repair valve lesion - qualifiers	to 1787	not relevant		
1115 Common arterial trunk (truncus arteriosus) and truncal valvar procedures				
Truncal valvar procedures	to 1116	not relevant		
Common arterial trunk (truncus) repair,	to 1630	12.11.00	12.11.00	Common arterial trunk (truncus) repair,
Common arterial trunk (truncus) repair using right ventricle to pulmonary trunk conduit,	to 1630	12.11.06	12.11.00	Common arterial trunk (truncus) repair,
Common arterial trunk (truncus) repair with right ventricle to pulmonary trunk direct connection,	to 1229	12.11.07	12.11.00	Common arterial trunk (truncus) repair,
Common arterial trunk (truncus) palliative procedure,	to 1000	12.11.08	12.32.21	Cardiac procedure,
Common arterial trunk (truncus) palliation: pulmonary arterial isolation & systemic-to-pulmonary arterial shunt,	to 1630	12.11.16	12.32.21	Cardiac procedure,
Common arterial trunk (truncus) with intact ventricular septum repair,	to 1630	12.11.17	12.11.00	Common arterial trunk (truncus) repair,
Common arterial trunk (truncus) procedure,	to 1000	12.11.09	12.11.00	Common arterial trunk (truncus) repair,
Ventricular septal defect (VSD) procedures	to 1100	not relevant		
Pulmonary arterial procedures	to 1130	not relevant		
Aortic arch procedures	to 1155	not relevant		
1116 Truncal valvar procedures				
Inspection of truncal valve,	to 1000	12.11.30	12.32.21	Cardiac procedure,
Truncal valvotomy,	to 1000	12.11.31	12.11.34	Truncal valve cusp(s) repair (valvoplasty),
Closed truncal valvotomy,	to 1000	12.11.32	12.11.34	Truncal valve cusp(s) repair (valvoplasty),
Truncal valve cusp(s) repair (valvoplasty),	to 1000	12.11.34	12.11.34	Truncal valve cusp(s) repair (valvoplasty),
'Annuloplasty' of truncal valve,	to 1000	12.11.35	12.11.34	Truncal valve cusp(s) repair (valvoplasty),
Truncal 'annular' enlargement,	to 1147	12.11.44	12.11.34	Truncal valve cusp(s) repair (valvoplasty),
Resection of truncal valve cusp(s),	to 1000	12.11.36	12.11.34	Truncal valve cusp(s) repair (valvoplasty),
Excision of nodule/fibrous thickening from truncal valve cusp,	to 1000	12.11.37	12.11.34	Truncal valve cusp(s) repair (valvoplasty),
Excision of vegetations from truncal valve,	to 1000	12.11.38	12.32.20	Removal of cardiac vegetations,
Removal of thrombus from truncal valve,	to 1000	12.11.39	12.32.22	Removal of cardiac thrombus,
Decalcification of truncal valve,	to 1000	12.11.40	12.11.34	Truncal valve cusp(s) repair (valvoplasty),
Truncal valve replacement,	to 1600	12.11.41	12.11.41	Truncal valve replacement,
Truncal root replacement,	to 1620	12.11.42	12.11.41	Truncal valve replacement,
Truncal valve repair converted to truncal valvar replacement,	to 1600	12.11.43	12.11.43	Truncal valve repair converted to truncal valvar replacement,
Truncal root replacement + coronary artery interposition tube (Cabrol),	to 1600	12.11.48	12.11.41	Truncal valve replacement,
Implanted truncal valvar procedure,	to 1605	12.11.50	12.11.34	Truncal valve cusp(s) repair (valvoplasty),
Replacement of implanted truncal valve,	to 1600	12.11.58	12.11.41	Truncal valve replacement,
Truncal valve procedure,	to 1000	12.11.49	12.11.34	Truncal valve cusp(s) repair (valvoplasty),

End of branch				
1120 Pulmonary valvar, trunk and arterial procedures				
Pulmonary valvar procedures	to 1125	not relevant		
Pulmonary root-sinus procedures	to 1129	not relevant		
Pulmonary trunk and arterial procedures and conduits	to 1130	not relevant		
Pulmonary atresia procedure,	to 1000	12.13.49	12.32.21	Cardiac procedure,
1125 Pulmonary valvar procedures				
Pulmonary valvar procedure,	to 1000	12.13.00	12.13.00	Pulmonary valvar procedure,
Pulmonary valvotomy procedures	to 1126	not relevant		
Pulmonary valve insertion or replacement	to 1127	not relevant		
Inspection of pulmonary valve,	to 1000	12.13.10	12.13.00	Pulmonary valvar procedure,
Pulmonary cusp(s) repair (valvoplasty),	to 1000	12.13.11	12.13.00	Pulmonary valvar procedure,
Pulmonary cusp(s) resection,	to 1000	12.13.14	12.13.00	Pulmonary valvar procedure,
Pulmonary valvectomy,	to 1000	12.13.12	12.13.12	Pulmonary valvectomy,
Pulmonary valvectomy: closed,	to 1000	12.13.13	12.13.12	Pulmonary valvectomy,
Pulmonary valve closure,	to 1000	12.13.32	12.13.15	Pulmonary valvar closure-oversewing,
Pulmonary valvar closure-oversewing,	to 1000	12.13.15	12.13.15	Pulmonary valvar closure-oversewing,
Pulmonary valve closure with patch,	to 1608	12.13.33	12.13.15	Pulmonary valvar closure-oversewing,
Excision of nodule/fibrous thickening from pulmonary cusp(s),	to 1000	12.13.16	12.13.00	Pulmonary valvar procedure,
Excision of vegetations from pulmonary valve,	to 1000	12.13.17	12.32.20	Removal of cardiac vegetations,
Removal of thrombus from pulmonary valve,	to 1000	12.13.18	12.32.22	Removal of cardiac thrombus,
Decalcification of pulmonary valve,	to 1000	12.13.19	12.13.00	Pulmonary valvar procedure,
'Annuloplasty' of pulmonary valve,	to 1000	12.13.20	12.13.00	Pulmonary valvar procedure,
Pulmonary valve 'annular' enlargement,	to 1147	12.13.34	12.13.00	Pulmonary valvar procedure,
Implanted pulmonary valvar procedure,	to 1605	12.13.40	12.13.00	Pulmonary valvar procedure,
1126 Pulmonary valvotomy				
Pulmonary valvotomy,	to 1000	12.13.01	12.13.02	Pulmonary valvotomy: open,
Pulmonary valvotomy: open,	to 1000	12.13.02	12.13.02	Pulmonary valvotomy: open,
Pulmonary valvotomy: closed,	to 1000	12.13.60	12.13.00	Pulmonary valvar procedure,
Pulmonary valvotomy: closed - transventricular,	to 1000	12.13.61	12.13.00	Pulmonary valvar procedure,
Pulmonary valvotomy: closed - transventricular (Brock),	to 1000	12.13.03	12.13.00	Pulmonary valvar procedure,
Pulmonary valvotomy: closed - transpulmonary,	to 1000	12.13.04	12.13.00	Pulmonary valvar procedure,
1127 Pulmonary valvar insertion or replacement				
Pulmonary valvar replacement,	to 1600	12.13.26	12.13.21	Pulmonary valvar replacement (not conduit),
Pulmonary valvar replacement (not conduit),	to 1600	12.13.21	12.13.21	Pulmonary valvar replacement (not conduit),
Pulmonary valvar replacement using homograft,	to 1620	12.13.22	12.13.22	Pulmonary valvar replacement using homograft,
Pulmonary valvar replacement using heterograft bioprosthesis,	to 1622	12.13.25	12.13.21	Pulmonary valvar replacement (not conduit),
Pulmonary valvar replacement using mechanical prosthesis,	to 1623	12.13.27	12.13.21	Pulmonary valvar replacement (not conduit),
Pulmonary valvar replacement with constructed bicuspid valve,	to 1619	12.13.38	12.13.21	Pulmonary valvar replacement (not conduit),
Pulmonary valvar replacement with constructed monocusp valve,	to 1619	12.13.39	12.13.21	Pulmonary valvar replacement (not conduit),

	Pulmonary valve repair converted to pulmonary valvar replacement.	to 1600	12.13.55	12.13.55	Pulmonary valve repair converted to pulmonary valvar replacement.
	Replacement of implanted pulmonary valve.	to 1600	12.13.49	12.13.21	Pulmonary valvar replacement (not conduit).
	Pulmonary valvar insertion.	to 1619	12.13.25	12.13.21	Pulmonary valvar replacement (not conduit).
	Pulmonary valvar insertion with constructed bicuspid valve.	to 1619	12.13.36	12.13.21	Pulmonary valvar replacement (not conduit).
	Pulmonary valvar insertion with constructed monocusp valve.	to 1619	12.13.37	12.13.21	Pulmonary valvar replacement (not conduit).
	Pulmonary root replacement.	to 1619	12.13.50	12.13.21	Pulmonary valvar replacement (not conduit).
	Transluminal pulmonary valvar insertion with stent mounted valve.	to 1438	not relevant		
1129	Pulmonary root-sinus procedures				
	Pulmonary root-sinus procedure.	to 1000	12.13.70	12.15.11	Procedure involving pulmonary artery.
	Resection & resuturing of enlarged pulmonary root.	to 1000	12.13.71	12.14.20	Pulmonary arterioplasty reconstruction.
	Supra-annular pulmonary valvar patch enlargement.	to 1608	12.13.72	12.14.20	Pulmonary arterioplasty reconstruction.
	End of branch				
1130	Pulmonary trunk and arterial procedures and conduits				
	Banding of pulmonary trunk and arteries	to 1131	not relevant		
	Arterioplasty procedures involving pulmonary trunk and arteries	to 1132	not relevant		
	Pulmonary arterial tree embolus procedures	to 1133	not relevant		
	Pulmonary arterial tree balloon dilation and stent procedures	to 1442	not relevant		
	Anomalous origin of pulmonary artery from aorta (hemitruncus) procedures	to 1156	not relevant		
	Resection & end-to-end anastomosis of pulmonary trunk.	to 1000	12.14.07	12.14.20	Pulmonary arterioplasty reconstruction.
	Transection and oversewing of pulmonary trunk.	to 1000	12.14.10	12.15.11	Procedure involving pulmonary artery.
	Excision of vegetations from pulmonary trunk.	to 1000	12.14.11	12.32.20	Removal of cardiac vegetations.
	Pulmonary trunk procedure.	to 1000	12.14.04	12.15.11	Procedure involving pulmonary artery.
	Pulmonary trunk repair.	to 1000	12.14.53	12.14.20	Pulmonary arterioplasty reconstruction.
	Pulmonary trunk translocation.	to 1000	12.14.50	12.15.11	Procedure involving pulmonary artery.
	Pulmonary trunk anterior translocation (Lecompte).	to 1000	12.14.51	12.15.11	Procedure involving pulmonary artery.
	Pulmonary artery reimplantation.	to 1000	12.14.17	12.14.20	Pulmonary arterioplasty reconstruction.
	Reimplantation of right pulmonary artery.	to 1000	12.15.09	12.15.11	Procedure involving pulmonary artery.
	Reimplantation of left pulmonary artery.	to 1000	12.15.10	12.15.11	Procedure involving pulmonary artery.
	Pulmonary artery transection.	to 1000	12.14.14	12.14.31	Pulmonary artery ligation.
	Right pulmonary artery transection.	to 1000	12.14.15	12.14.31	Pulmonary artery ligation.
	Left pulmonary artery transection.	to 1000	12.14.16	12.14.31	Pulmonary artery ligation.
	Pulmonary artery ligation.	to 353	12.14.31	12.14.31	Pulmonary artery ligation.
	Pulmonary trunk ligation.	to 353	12.14.52	12.14.31	Pulmonary artery ligation.
	Right pulmonary artery ligation.	to 353	12.14.32	12.14.31	Pulmonary artery ligation.
	Left pulmonary artery ligation.	to 353	12.14.35	12.14.31	Pulmonary artery ligation.
	Inadvertent ligation of right pulmonary artery.	to 1604	12.14.12	12.14.31	Pulmonary artery ligation.
	Inadvertent ligation of left pulmonary artery.	to 1604	12.14.13	12.14.31	Pulmonary artery ligation.
	Pulmonary trunk to right pulmonary artery conduit construction.	to 1630	12.36.07	12.14.20	Pulmonary arterioplasty reconstruction.
	Pulmonary trunk to left pulmonary artery conduit construction.	to 1630	12.36.06	12.14.20	Pulmonary arterioplasty reconstruction.
	Right pulmonary artery to left pulmonary artery conduit construction.	to 1630	12.36.08	12.14.20	Pulmonary arterioplasty reconstruction.
	Pulmonary trunk to right + left pulmonary artery conduit construction.	to 1630	12.36.17	12.14.20	Pulmonary arterioplasty reconstruction.
	Procedure involving pulmonary artery.	to 1000	12.15.11	12.15.11	Procedure involving pulmonary artery.
1131	Banding of pulmonary trunk and arteries				
	Pulmonary trunk band (PA band).	to 1645	12.14.02	12.14.02	Pulmonary trunk band (PA band).
	Pulmonary trunk band (PA band) to train left ventricle.	to 1645	12.14.00	12.14.02	Pulmonary trunk band (PA band).
	Pulmonary trunk band removal (de-band).	to 1000	12.14.03	12.14.03	Pulmonary trunk band removal (de-band).
	Application of band proximal to superior bidirectional cavopulmonary anastomosis.	to 1680	12.15.69	12.14.02	Pulmonary trunk band (PA band).
	Open adjustment of pulmonary trunk band.	to 1000	12.14.08	12.14.02	Pulmonary trunk band (PA band).
	Application of right pulmonary artery band.	to 1645	12.15.05	12.14.02	Pulmonary trunk band (PA band).
	Application of left pulmonary artery band.	to 1645	12.15.06	12.14.02	Pulmonary trunk band (PA band).
	Application of right & left pulmonary arterial bands.	to 1645	12.14.19	12.14.19	Application of right & left pulmonary arterial bands.
	Application of adjustable pulmonary arterial band.	to 1680	12.14.18	12.14.02	Pulmonary trunk band (PA band).
	Pulmonary arterial band to trunk or pulmonary artery(ies).	to 1000	12.14.36	12.14.02	Pulmonary trunk band (PA band).
	Pulmonary artery flow restriction with implanted fenestrated patch.	to 1608	12.15.28	12.14.02	Pulmonary trunk band (PA band).
	Open adjustment of right pulmonary artery band.	to 1000	12.15.20	12.14.02	Pulmonary trunk band (PA band).
	Open adjustment of left pulmonary artery band.	to 1000	12.15.21	12.14.02	Pulmonary trunk band (PA band).
	Removal of band from right pulmonary artery.	to 1000	12.15.07	12.14.03	Pulmonary trunk band removal (de-band).
	Removal of band from left pulmonary artery.	to 1000	12.15.08	12.14.03	Pulmonary trunk band removal (de-band).
	Removal of bands from right & left pulmonary arteries.	to 1000	12.15.16	12.14.03	Pulmonary trunk band removal (de-band).
	Removal of pulmonary tree implanted flow restriction device/ patch.	to 1000	12.15.29	12.14.03	Pulmonary trunk band removal (de-band).
1132	Pulmonary trunk and arterial arterioplasty procedures				
	Pulmonary arterioplasty reconstruction.	to 1680	12.14.20	12.14.20	Pulmonary arterioplasty reconstruction.
	Intraoperative procedures involving pulmonary arteries - hybrid approach	to 1561	not relevant		
	Pulmonary arterioplasty reconstruction: central (proximal to hilar bifurcation).	to 1680	12.14.21	12.14.21	Pulmonary arterioplasty reconstruction: central (proximal to hilar bifurcation).
	Pulmonary arterioplasty reconstruction: peripheral (at-beyond hilar bifurcation).	to 1680	12.14.22	12.14.22	Pulmonary arterioplasty reconstruction: peripheral (at-beyond hilar bifurcation).
	Pulmonary arterioplasty reconstruction: trunk + right pulmonary artery.	to 1614	12.14.25	12.14.20	Pulmonary arterioplasty reconstruction.
	Pulmonary arterioplasty reconstruction: trunk + left pulmonary artery.	to 1614	12.14.26	12.14.20	Pulmonary arterioplasty reconstruction.
	Pulmonary arterioplasty reconstruction: trunk + bilateral pulmonary arteries.	to 1614	12.14.27	12.14.20	Pulmonary arterioplasty reconstruction.
	Pulmonary arterial reconstruction to restore continuity.	to 1614	12.14.37	12.14.20	Pulmonary arterioplasty reconstruction.
	Pulmonary trunk arterioplasty.	to 1000	12.14.01	12.14.01	Pulmonary trunk arterioplasty.
	Patch arterioplasty of pulmonary trunk.	to 1608	12.14.06	12.14.01	Pulmonary trunk arterioplasty.
	Right pulmonary artery arterioplasty.	to 1000	12.15.01	12.14.20	Pulmonary arterioplasty reconstruction.
	Left pulmonary artery arterioplasty.	to 1000	12.15.02	12.14.20	Pulmonary arterioplasty reconstruction.
	Pulmonary bifurcation arterioplasty.	to 1000	12.15.12	12.14.20	Pulmonary arterioplasty reconstruction.
	Pulmonary arterioplasty with patch.	to 1608	12.14.29	12.14.20	Pulmonary arterioplasty reconstruction.
	Patch arterioplasty of right pulmonary artery.	to 1608	12.15.17	12.14.20	Pulmonary arterioplasty reconstruction.
	Patch arterioplasty of left pulmonary artery.	to 1608	12.15.18	12.14.20	Pulmonary arterioplasty reconstruction.
	Open thromboembolotomy from right pulmonary artery.	to 1608	12.15.19	12.14.20	Pulmonary arterioplasty reconstruction.
	Pulmonary aneurysm repair.	to 1608	12.15.24	12.15.24	Pulmonary aneurysm repair.
	Pulmonary reduction arterioplasty.	to 1135	12.14.28	12.14.20	Pulmonary arterioplasty reconstruction.
	Intraoperative removal of pulmonary arterial stent.	to 1680	12.14.38	12.15.11	Procedure involving pulmonary artery.
1133	Pulmonary arterial tree thromboembolic procedures				
	Pulmonary thromboembolotomy.	to 1655	12.15.48	12.15.48	Pulmonary thromboembolotomy.
	Pulmonary thromboembolotomy for acute embolus.	to 1655	12.15.80	12.15.80	Pulmonary thromboembolotomy for acute embolus.
	Pulmonary thromboembolotomy for chronic (longstanding) embolus.	to 1655	12.15.81	12.15.81	Pulmonary thromboembolotomy for chronic (longstanding) embolus.
	Transluminal thromboembolotomy from pulmonary tree procedures	to 1444	not relevant		
	Open thromboembolotomy from pulmonary trunk.	to 1655	12.15.30	12.15.48	Pulmonary thromboembolotomy.
	Open thromboembolotomy from right pulmonary artery.	to 1655	12.15.31	12.15.48	Pulmonary thromboembolotomy.
	Open thromboembolotomy from left pulmonary artery.	to 1655	12.15.32	12.15.48	Pulmonary thromboembolotomy.
	Pulmonary endarterectomy.	to 1680	12.15.61	12.15.48	Pulmonary thromboembolotomy.
1135 @	Pulmonary arterioplasty reconstruction qualifiers				
	- plication.	to 1680	Q5.15.81	not relevant	
	- plication: anterior.	to 1680	Q5.15.82	not relevant	
	- plication: posterior.	to 1680	Q5.15.83	not relevant	
	- plication: anterior & posterior.	to 1680	Q5.15.84	not relevant	
	- resection.	to 1680	Q5.15.85	not relevant	
	- resection: anterior.	to 1680	Q5.15.86	not relevant	
	- resection: posterior.	to 1680	Q5.15.87	not relevant	
	- resection: anterior & posterior.	to 1680	Q5.15.88	not relevant	
	- excision within intrapericardial pulmonary arteries.	to 1680	Q5.15.89	not relevant	
	no entry	to 1680	not relevant		
	End of branch				
1140	Aortic valvar & root, sinuses of Valsalva procedures				
	Aortic valvar procedures	to 1141	not relevant		
	Aortic valvotomy procedures	to 1142	not relevant		
	Aortic valvar and root replacement procedures	to 1143	not relevant		
	Aortic sinus(es) of Valsalva and aortic tunnel procedures	to 1145	not relevant		
	Subaortic & left ventricular outflow tract procedures	to 1095	not relevant		
	Aortic valvar transluminal transcatheter procedures	to 1438	not relevant		
1141	Aortic valvar procedures				
	Aortic valvar procedure.	to 1000	12.16.00	12.16.00	Aortic valvar procedure.
	Aortic valve repair.	to 1000	12.16.60	12.16.00	Aortic valvar procedure.
	Inspection of aortic valve.	to 1000	12.16.10	12.16.00	Aortic valvar procedure.
	Aortic cusp(s) repair (valvoplasty).	to 385	12.16.11	12.16.11	Aortic cusp(s) repair (valvoplasty).
	Aortic cusp(s) repair (valvoplasty): bicuspidsation.	to 385	12.17.70	12.16.11	Aortic cusp(s) repair (valvoplasty).
	Aortic cusp(s) repair (valvoplasty): tricuspidsation.	to 385	12.17.71	12.16.11	Aortic cusp(s) repair (valvoplasty).
	Aortic cusp plication (Trussler).	to 385	12.16.12	12.16.11	Aortic cusp(s) repair (valvoplasty).
	Aortic cusp resection & repair + circumferential annuloplasty (Carpentier).	to 385	12.16.13	12.16.14	Aortic cusp(s) repair (valvoplasty).
	'Annuloplasty' of aortic valve.	to 1000	12.16.14	12.16.14	'Annuloplasty' of aortic valve.
	Aortic 'annular' enlargement.	to 1147	12.16.91	12.16.14	'Annuloplasty' of aortic valve.
	Aortic valve reduction 'annuloplasty'.	to 1000	12.16.94	12.16.14	'Annuloplasty' of aortic valve.
	Aortic valve resuspension.	to 1000	12.16.92	12.16.11	Aortic cusp(s) repair (valvoplasty).
	Aortic valve cusp resuspension.	to 385	12.16.95	12.16.11	Aortic cusp(s) repair (valvoplasty).
	Aortic valve commissural resuspension.	to 1000	12.16.96	12.16.11	Aortic cusp(s) repair (valvoplasty).

	Aortic cusp(s) partial resection,	to 385	12.16.17	12.16.11	Aortic cusp(s) repair (valvoplasty),
	Aortic valve cusp augmentation,	to 385	12.16.93	12.16.11	Aortic cusp(s) repair (valvoplasty),
	Aortic valve cusp extension,	to 385	12.16.98	12.16.11	Aortic cusp(s) repair (valvoplasty),
	Aortic valve cusp implantation with artificial cusp,	to 385	12.16.99	12.16.11	Aortic cusp(s) repair (valvoplasty),
	Aortic valve closure,	to 1000	12.16.36	12.16.61	Aortic valve closure-oversewing,
	Aortic valve closure-oversewing,	to 1000	12.16.61	12.16.61	Aortic valve closure-oversewing,
	Aortic valve closure with patch,	to 1608	12.16.37	12.16.61	Aortic valve closure-oversewing,
	Excision of nodular/fibrous thickening from aortic cusp,	to 385	12.16.18	12.16.11	Aortic cusp(s) repair (valvoplasty),
	Excision of vegetations from aortic valve,	to 1000	12.16.19	12.32.20	Removal of cardiac vegetations,
	Removal of thrombus from aortic valve,	to 1000	12.16.20	12.32.22	Removal of cardiac thrombus,
	Decalcification of aortic valve,	to 1000	12.16.51	12.16.00	Aortic valvar procedure,
	Implanted aortic valvar procedure,	to 1605	12.16.70	12.16.00	Aortic valvar procedure, J8326
1142	Aortic valvotomy procedures				
	Aortic valvotomy,	to 1000	12.16.01	12.16.02	Aortic valvotomy: open,
	Aortic valvotomy: open,	to 1000	12.16.02	12.16.02	Aortic valvotomy: open,
	Aortic valvotomy: closed,	to 1000	12.16.04	12.16.04	Aortic valvotomy: closed,
	Aortic valvotomy under inflow occlusion,	to 1000	12.16.08	12.16.02	Aortic valvotomy: open,
1143	Aortic valvar and root replacement procedures				
	Aortic valvar replacement,	to 1600	12.16.21	12.16.21	Aortic valvar replacement,
	Aortic valvar replacement using homograft,	to 1620	12.16.22	12.16.22	Aortic valvar replacement using homograft,
	Aortic valvar replacement using heterograft bioprosthesi	to 1622	12.16.28	12.16.28	Aortic valvar replacement using heterograft bioprosthesi
	Aortic valvar replacement using mechanical prosthesis,	to 1623	12.16.29	12.16.29	Aortic valvar replacement using mechanical prosthesis,
	Aortic valvar replacement with plication aortoplasty,	to 1600	12.16.31	12.16.21	Aortic valvar replacement,
	Aortic valvar replacement with patch aortoplasty,	to 1600	12.16.32	12.16.21	Aortic valvar replacement,
	Aortic valve repair converted to aortic valvar replacement,	to 1600	12.16.97	12.16.97	Aortic valve repair converted to aortic valvar replacement,
	Aortic root replacement,	to 1600	12.17.96	12.16.50	Aortic root replacement (not Ross),
	Aortic root replacement + coronary artery reimplantation (Bentall),	to 1600	12.16.33	12.16.33	Aortic root replacement + coronary artery reimplantation (Bentall),
	Aortic root replacement + coronary artery interposition tube (Cabrol),	to 1600	12.16.34	12.16.33	Aortic root replacement + coronary artery reimplantation (Bentall),
	Aortic root replacement (not Ross),	to 1600	12.16.50	12.16.50	Aortic root replacement (not Ross),
	Aortic root replacement using homograft,	to 1620	12.16.63	12.16.63	Aortic root replacement using homograft,
	Aortic root replacement using mechanical prosthesis,	to 1623	12.16.64	12.16.64	Aortic root replacement using mechanical prosthesis,
	Aortic root replacement using bioprosthesi	to 1622	12.17.90	12.17.90	Aortic root replacement using bioprosthesi
	Aortic root replacement with valve sparing technique	to 1144	not relevant		
	Ross procedure: aortic valve or root replacement with pulmonary autograft & pulmonary valvar replacement,	to 1600	12.16.30	12.16.30	Ross procedure: aortic valve or root replacement with pulmonary autograft & pulmonary valvar replacement,
	Ross-Konno procedure,	to 1600	12.16.62	12.16.62	Ross-Konno procedure,
	Ross procedure: aortic valve or root replacement with pulmonary autograft & pulmonary replacement with aortic autograft,	to 1600	12.17.97	12.16.30	replacement,
	Replacement of implanted aortic valve,	to 1600	12.16.78	12.16.21	Aortic valvar replacement,
	Aortic valvar or root replacement,	to 1600	12.16.39	12.16.21	Aortic valvar replacement,
1144	Aortic root replacement with valve sparing technique				
	Aortic root replacement: valve sparing technique,	to 1624	12.17.91	12.17.91	Aortic root replacement: valve sparing technique,
	Aortic root replacement: valve sparing technique with vascular graft (Yacoub-David),	to 1624	12.17.92	12.17.91	Aortic root replacement: valve sparing technique,
	Aortic root replacement: valve sparing technique with reimplantation of native valve within vascular graft (Yacoub-David I),	to 1624	12.17.93	12.17.91	Aortic root replacement: valve sparing technique,
	Aortic root replacement: valve sparing technique with root remodelling using graft with tongues (Yacoub-David II),	to 1624	12.17.94	12.17.91	Aortic root replacement: valve sparing technique,
	Aortic root replacement: valve sparing technique,		12.17.95		
1145	Aortic sinus(es) of Valsalva and aortic tunnel procedures				
	Aortic sinus of Valsalva procedure,	to 1146	12.16.80	12.16.80	Aortic sinus of Valsalva procedure,
	Aortic sinus of Valsalva aneurysm repair,	to 1146	12.16.85	12.16.85	Aortic sinus of Valsalva aneurysm repair,
	Aortic sinus of Valsalva fistula repair,	to 1146	12.16.79	12.16.85	Aortic sinus of Valsalva aneurysm repair,
	Aortic sinus of Valsalva distal fistula closure,	to 3205	12.16.81	12.16.81	Aortic sinus of Valsalva fistula closure,
	Aortic sinus of Valsalva distal fistula closure by direct suture,	to 3205	12.16.82	12.16.81	Aortic sinus of Valsalva fistula closure,
	Aortic sinus of Valsalva distal fistula closure using patch,	to 3205	12.16.83	12.16.81	Aortic sinus of Valsalva fistula closure,
	Aortic sinubulbar junction remodelling procedure,	to 1000	12.17.83	12.16.81	Aortic sinus of Valsalva fistula closure,
	Supra-annular aortic valvar patch enlargement,	to 1608	12.16.15	12.16.80	Aortic sinus of Valsalva procedure,
	Resection & resuturing of enlarged aortic root,	to 1000	12.16.16	12.16.80	Aortic sinus of Valsalva procedure,
	Aorto-ventricular tunnel procedure,	to 1000	12.16.88	12.16.90	Aorto-left ventricular tunnel closure,
	Aorto-left ventricular tunnel closure,	to 1148	12.16.90	12.16.90	Aorto-left ventricular tunnel closure,
	Aorto-left ventricular tunnel closure using patch,	to 1148	12.16.86	12.16.90	Aorto-left ventricular tunnel closure,
	Aorto-left ventricular tunnel closure using suture,	to 1148	12.17.81	12.16.90	Aorto-left ventricular tunnel closure,
	Aorto-left ventricular tunnel closure using patch & suture,	to 1148	12.17.82	12.16.90	Aorto-left ventricular tunnel closure,
	Reimplantation of right coronary artery,	to 1000	12.23.02	12.23.09	Coronary arterial procedure,
	Aorto-right ventricular tunnel closure,	to 1148	12.17.84	12.16.90	Aorto-left ventricular tunnel closure,
	Aorto-right ventricular tunnel closure using suture,	to 1148	12.17.85	12.16.90	Aorto-left ventricular tunnel closure,
	Aorto-right ventricular tunnel closure using patch,	to 1148	12.16.87	12.16.90	Aorto-left ventricular tunnel closure,
	Coronary arterial procedures	to 1280	not relevant		
1146 @	Aortic sinus involved in procedure				
	- right aortic sinus,	to 1175	Q5.17.31	not relevant	
	- left aortic sinus,	to 1175	Q5.17.32	not relevant	
	- non-coronary aortic sinus,	to 1175	Q5.17.33	not relevant	
	no entry	to 1175	not relevant		
1147 @	Ventriculo-arterial valve 'Annular' enlargement qualifiers				
	- with 'annular' enlargement through noncoronary sinus (Nicks),	to 1000	Q5.17.51	not relevant	
	- with 'annular' enlargement through left-noncoronary commissure (Manouguian),	to 1000	Q5.17.52	not relevant	
	- with 'annular' enlargement as part of aortovertriculoplasty procedure,	to 1000	Q5.17.53	not relevant	
	- with 'annular' enlargement as part of Konno aortovertriculoplasty procedure,	to 1000	Q5.17.54	not relevant	
	- with 'annular' enlargement not part of Konno aortovertriculoplasty procedure,	to 1000	Q5.17.55	not relevant	
	- with annular enlargement other than Konno-Nicks-Manouguian techniques,	to 1000	Q5.17.56	not relevant	
	no entry	to 1000	not relevant		
1148 @	Aorto-ventricular tunnel procedure approach qualifiers				
	- at ventricular end of tunnel,	to 1000	Q5.18.30	not relevant	
	- at ventricular end of tunnel via aortic valve,	to 1000	Q5.18.31	not relevant	
	- at ventricular end of tunnel via tunnel,	to 1000	Q5.18.32	not relevant	
	- at aortic end of tunnel,	to 1000	Q5.18.33	not relevant	
	Suture techniques	to 1608	not relevant		
	Patch materials	to 1608	not relevant		
	no entry	to 1000	not relevant		
	_____ End of branch _____				
1150	Aortopulmonary window procedures				
	Aortopulmonary window procedure,	to 1000	12.12.04	12.32.21	Cardiac procedure,
	Aortopulmonary window closure,	to 1000	12.12.01	12.12.01	Aortopulmonary window closure,
	Aortopulmonary window closure with direct suture,	to 1603	12.12.02	12.12.01	Aortopulmonary window closure,
	Aortopulmonary window closure with single patch,	to 1608	12.12.03	12.12.01	Aortopulmonary window closure,
	Aortopulmonary window closure by ligation,	to 1000	12.12.05	12.12.01	Aortopulmonary window closure,
	Aortopulmonary window closure with great arteries disconnected (2 patches),	to 1000	12.12.06	12.12.01	Aortopulmonary window closure,
	Aortopulmonary window closure with great arteries remaining connected,	to 1000	12.12.07	12.12.01	Aortopulmonary window closure,
	Aortopulmonary window closure using sandwich technique,	to 1000	12.12.09	12.12.01	Aortopulmonary window closure,
	Aortopulmonary window creation,	to 1000	12.12.10	12.32.21	Cardiac procedure,
	Approaches for aortopulmonary window repair	to 1786	not relevant		
	_____ End of branch _____				
1155	Aorta and aortic branch procedures				
	Ascending & thoracic aorta procedures	to 1156	not relevant		
	Aortic arch repair & coarctation, hypoplasia or atretic segment of aorta procedures	to 1160	not relevant		
	Aortic aneurysm and dissection repair,	to 1157	not relevant		
	Vascular rings - double aortic arch procedures	to 1158	not relevant		
	Interrupted aortic arch procedures	to 1167	not relevant		
	Aberrant subclavian arterial procedures	to 1169	not relevant		
	Carotid arterial procedures	to 1170	not relevant		
	Procedures involving aorto-pulmonary collateral arteries (MAPCAs)	to 1205	not relevant		
	Systemic arterial procedure,	to 1000	12.22.00	12.22.00	Systemic arterial procedure,
	Aorta plasty procedure,	to 1000	12.22.10	12.22.00	Systemic arterial procedure,
	Aberrant aortic arch vessel repair: division & reanastomosis,	to 1000	12.22.04	12.22.00	Systemic arterial procedure,
1156	Ascending & thoracic aorta procedures				
	Supravalvar aortic stenosis repair,	to 1177	12.16.40	12.16.40	Supravalvar aortic stenosis repair,
	Supravalvar patch aortoplasty,	to 1177	12.16.41	12.16.40	Supravalvar aortic stenosis repair,
	Supravalvar aortic stenosis repair with interposition tube graft,	to 1630	12.16.53	12.16.40	Supravalvar aortic stenosis repair,
	Reduction aortoplasty,	to 1000	12.16.54	12.16.42	Aortic aneurysm repair,
	Plication of ascending aorta,	to 1000	12.16.46	12.16.42	Aortic aneurysm repair,
	Pulmonary artery origin from ascending aorta (hemitruncus) repair,	to 1176	12.14.30	12.14.30	Pulmonary artery origin from ascending aorta (hemitruncus) repair,

Anomalous origin of right pulmonary artery from ascending aorta repair,	to 1176	12.16.43	12.14.30	Pulmonary artery origin from ascending aorta (hemitruncus) repair,
Anomalous origin of left pulmonary artery from ascending aorta repair,	to 1176	12.16.44	12.14.30	Pulmonary artery origin from ascending aorta (hemitruncus) repair,
Ascending aorta replacement,	to 1175	12.16.65	12.16.65	Ascending aorta replacement,
Ascending aorta replacement with intact native aortic valve (David),	to 1630	12.16.45	12.16.65	Ascending aorta replacement,
Ascending aorta replacement with remodelling of aortic sinuses,	to 1630	12.16.57	12.16.65	Ascending aorta replacement,
Ascending aorta replacement & aortic valvar resuspension,	to 1630	12.16.35	12.16.35	Ascending aorta replacement & aortic valvar resuspension,
Ascending aorta & arch replacement with interposition tube graft,	to 1630	12.16.47	12.16.65	Ascending aorta replacement,
Extended ascending aorta replacement with arch remodelling (Kouchoukos),	to 1630	12.16.49	12.16.65	Ascending aorta replacement,
Aortic embolus removal,	to 1655	12.18.80	12.22.00	Systemic arterial procedure,
Aortopexy,	to 1000	12.17.31	12.17.31	Aortopexy,
inadvertent ligation of descending aorta,	to 1000	12.16.58	12.22.00	Systemic arterial procedure,
1157 Aortic aneurysm and dissection repair,				
Aortic aneurysm transcatheter stent implantation procedures	to 1455	not relevant		
Aortic aneurysm repair,	to 1175	12.16.42	12.16.42	Aortic aneurysm repair,
Aortic root aneurysm repair,	to 1175	12.17.51	12.16.42	Aortic aneurysm repair,
Ascending aorta aneurysm repair,	to 1175	12.17.52	12.16.42	Aortic aneurysm repair,
Aortic arch aneurysm repair,	to 1175	12.16.66	12.16.66	Aortic arch aneurysm repair,
Descending thoracic aorta aneurysm repair,	to 1175	12.16.67	12.16.67	Descending aorta aneurysm repair,
Thoraco-abdominal aortic aneurysm repair,	to 1175	12.16.69	12.16.68	Abdominal aorta aneurysm repair,
Abdominal aorta aneurysm repair,	to 1175	12.16.68	12.16.68	Abdominal aorta aneurysm repair,
Aortic dissection repair,	to 1175	12.16.59	12.16.59	Aortic dissection repair,
Aortic dissection repair: ascending aorta and arch (Type I A),	to 1175	12.17.53	12.16.59	Aortic dissection repair,
Aortic dissection repair: ascending aorta only (Type II A),	to 1175	12.17.54	12.16.59	Aortic dissection repair,
Aortic dissection repair: descending aorta & distally (Type III B),	to 1175	12.17.55	12.16.59	Aortic dissection repair,
Ascending aorta dissection repair using tube graft inclusion,	to 1175	12.16.48	12.16.59	Aortic dissection repair,
Descending aorta dissection repair with interposition tube graft,	to 1175	12.16.55	12.16.59	Aortic dissection repair,
Descending aorta dissection repair using tube graft inclusion,	to 1175	12.16.56	12.16.59	Aortic dissection repair,
1158 Vascular rings & double aortic arch procedures				
Vascular ring procedure,	to 1000	12.17.11	12.17.11	Vascular ring procedure,
Vascular ring repair,	to 1000	12.17.43	12.17.11	Vascular ring procedure,
Double aortic arch division,	to 1000	12.17.01	12.17.11	Vascular ring procedure,
Division of right aortic arch,	to 1174	12.17.02	12.17.11	Vascular ring procedure,
Division of left aortic arch,	to 1174	12.17.03	12.17.11	Vascular ring procedure,
Division of right subclavian artery,	to 1604	12.17.12	12.17.11	Vascular ring procedure,
Division of left subclavian artery,	to 1604	12.17.13	12.17.11	Vascular ring procedure,
Division of right arterial duct (PDA) or ligament,	to 1604	12.24.13	12.24.20	Patent arterial duct (PDA) closure: surgical,
Division of left arterial duct (PDA) or ligament,	to 1604	12.24.02	12.24.20	Patent arterial duct (PDA) closure: surgical,
Aortopexy,	to 1000	12.17.31	12.17.31	Aortopexy,
Aortic uncrossing procedure: arch division & anastomosed anterior to trachea,	to 1000	12.17.34	12.17.11	Vascular ring procedure,
Innominate artery compression relief procedure,	to 1000	12.17.38	12.17.11	Vascular ring procedure,
Suspension (pexy) of anomalous innominate artery,	to 1000	12.17.21	12.17.11	Vascular ring procedure,
Reimplantation of anomalous innominate artery,	to 1176	12.17.22	12.17.11	Vascular ring procedure,
Pulmonary arterial sling repair,	to 1000	12.17.32	12.17.32	Pulmonary arterial sling repair,
Pulmonary arterial sling repair: division of left pulmonary artery & reimplantation anterior of trachea,	to 1000	12.17.19	12.17.32	Pulmonary arterial sling repair,
Pulmonary arterial sling repair: transection of trachea & translocate left pulmonary artery anterior to trachea,	to 1000	12.17.33	12.17.32	Pulmonary arterial sling repair,
Segmental resection of trachea,	to 4315	12.64.41	12.64.40	Tracheobronchial reconstruction procedure,
Tracheoplasty: enlargement,	to 4315	12.64.42	12.64.40	Tracheobronchial reconstruction procedure,
Tracheoplasty: enlargement with rib cartilage wedge grafts,	to 4315	12.64.43	12.64.40	Tracheobronchial reconstruction procedure,
Resection of diverticulum of Kommerell,	to 1000	12.17.35	12.17.11	Vascular ring procedure,
Pexy of diverticulum of Kommerell,	to 1000	12.17.36	12.17.11	Vascular ring procedure,
Plication of diverticulum of Kommerell,	to 1000	12.17.37	12.17.11	Vascular ring procedure,
Resection of diverticulum of Kommerell & ligation of subclavian artery,	to 1000	12.17.41	12.17.11	Vascular ring procedure,
Resection of diverticulum of Kommerell & reimplantation of subclavian artery,	to 1000	12.17.42	12.17.11	Vascular ring procedure,
Resection of diverticulum of Kommerell & reimplantation of subclavian artery to aorta,	to 1000	12.17.39	12.17.11	Vascular ring procedure,
Resection of diverticulum of Kommerell & reimplantation of subclavian artery to carotid artery,	to 1000	12.17.40	12.17.11	Vascular ring procedure,
1160 Aortic arch repair & coarctation, hypoplasia or atretic segment of aorta procedures				
Aortic arch repair,	to 1000	12.18.30	12.18.30	Aortic arch repair,
Coarctation, hypoplasia or atretic segment of aorta procedures	to 1162	not relevant		
Aortic arch repair: reconstruction with native tissue & direct anastomosis (no patch),	to 1000	12.18.31	12.18.30	Aortic arch repair,
Aortic arch repair: patch aortoplasty,	to 1608	12.18.32	12.18.30	Aortic arch repair,
Aortic arch repair: patch aortoplasty to under surface of entire arch,	to 1608	12.18.33	12.18.30	Aortic arch repair,
Aortic arch repair: patch aortoplasty to anterior arch (posterior direct anastomosis),	to 1608	12.18.34	12.18.30	Aortic arch repair,
Aortic arch repair: reverse subclavian flap,	to 1000	12.18.35	12.18.30	Aortic arch repair,
Aortic arch repair: interposition graft,	to 1630	12.18.36	12.18.30	Aortic arch repair,
Aortic arch repair: extraanatomic bypass graft,	to 1630	12.18.37	12.18.30	Aortic arch repair,
Aortic arch repair: extraanatomic ascending to descending aorta bypass graft,	to 1630	12.18.29	12.18.30	Aortic arch repair,
Aortic arch repair: partial direct anastomosis with augmentation patch,	to 1608	12.18.38	12.18.30	Aortic arch repair,
Aortic arch repair: replacement of aortic arch device,	to 1630	12.18.39	12.18.30	Aortic arch repair,
1162 Coarctation, hypoplasia or atretic segment of aorta procedures				
Aortic coarctation-hypoplasia transluminal-transcatheter procedures	to 1450	not relevant		
Coarctation-hypoplasia of aorta repair,	to 1173	12.18.00	12.18.00	Coarctation-hypoplasia of aorta repair,
Aortic coarctation-hypoplasia repair by resection & end to end anastomosis,	to 1173	12.18.01	12.18.01	Aortic coarctation-hypoplasia repair by resection & end to end anastomosis,
Aortic coarctation-hypoplasia repair by patch aortoplasty,	to 1173	12.18.02	12.18.02	Aortic coarctation-hypoplasia repair by patch aortoplasty,
Aortic coarctation-hypoplasia repair by subclavian flap aortoplasty,	to 1173	12.18.03	12.18.03	Aortic coarctation-hypoplasia repair by subclavian flap aortoplasty,
Aortic coarctation-hypoplasia repair by resection & extended end to end anastomosis,	to 1173	12.18.10	12.18.10	Aortic coarctation-hypoplasia repair by resection & extended end to end anastomosis,
Aortic coarctation-hypoplasia repair by resection & extended end to side anastomosis,	to 1173	12.18.23	12.18.10	Aortic coarctation-hypoplasia repair by resection & extended end to end anastomosis,
Aortic coarctation-hypoplasia repair by resection & radically extended end to end anastomosis,	to 1173	12.18.11	12.18.10	Aortic coarctation-hypoplasia repair by resection & extended end to end anastomosis,
Aortic coarctation-hypoplasia repair by resection & end to end anastomosis + subclavian flap augmentation,	to 1173	12.18.12	12.18.01	Aortic coarctation-hypoplasia repair by resection & end to end anastomosis,
Aortic coarctation-hypoplasia repair by resection & end to end anastomosis + subclavian-carotid arterial anastomosis (Amato),	to 1173	12.18.12	12.18.01	Aortic coarctation-hypoplasia repair by resection & end to end anastomosis,
Aortic coarctation-hypoplasia repair by reversed subclavian flap aortoplasty,	to 1173	12.18.13	12.18.03	Aortic coarctation-hypoplasia repair by subclavian flap aortoplasty,
Aortic coarctation-hypoplasia repair by carotid flap aortoplasty,	to 1173	12.18.14	12.18.00	Coarctation-hypoplasia of aorta repair,
Aortic coarctation-hypoplasia repair by end to end anastomosis and subclavian flap aortoplasty,	to 1173	12.18.60	12.18.03	Aortic coarctation-hypoplasia repair by subclavian flap aortoplasty,
Aortic coarctation-hypoplasia repair by end to end anastomosis and reversed subclavian flap aortoplasty,	to 1173	12.18.61	12.18.03	Aortic coarctation-hypoplasia repair by subclavian flap aortoplasty,
Aortic coarctation-hypoplasia repair by resection & insertion of interposition tube graft,	to 1173	12.18.15	12.18.15	Aortic coarctation-hypoplasia repair by resection & insertion of tube graft,
Aortic coarctation-hypoplasia repair by extraanatomic bypass graft,	to 1173	12.18.25	12.18.00	Coarctation-hypoplasia of aorta repair,
Coarctation of aorta repair,	to 1173	12.18.26	12.18.00	Coarctation-hypoplasia of aorta repair,
Hypoplastic or atretic arch repair	to 1156	not relevant		
Procedures involving aortic recoarctation	to 1166	not relevant		
Procedure involving aortic coarctation-hypoplasia,	to 1000	12.18.05	12.18.30	Aortic arch repair,
Resection of post-intervention aortic arch aneurysm,	to 1000	12.18.16	12.18.30	Aortic arch repair,
1166 Aortic recoarctation procedures				
Aortic recoarctation repair,	to 1173	12.18.20	12.18.00	Coarctation-hypoplasia of aorta repair,
Aortic recoarctation repair by resection & end to end anastomosis,	to 1173	12.18.06	12.18.01	Aortic coarctation-hypoplasia repair by resection & end to end anastomosis,
Aortic recoarctation repair by patch aortoplasty,	to 1173	12.18.07	12.18.02	Aortic coarctation-hypoplasia repair by patch aortoplasty,
Aortic recoarctation repair by resection & insertion of interposition tube graft,	to 1173	12.18.21	12.18.15	Aortic coarctation-hypoplasia repair by resection & insertion of tube graft,
Aortic recoarctation procedure,	to 1173	12.18.24	12.18.00	Coarctation-hypoplasia of aorta repair,
1167 Interrupted aortic arch procedures				
Interrupted aortic arch repair,	to 1000	12.21.00	12.21.00	Interrupted aortic arch repair,
Interrupted aortic arch repair: direct end to end anastomosis,	to 1000	12.21.01	12.21.00	Interrupted aortic arch repair,
Interrupted aortic arch repair: reconstruction with native tissue & direct anastomosis (no patch),	to 1000	12.21.08	12.21.00	Interrupted aortic arch repair,
Interrupted arch repair: patch aortoplasty,	to 1608	12.21.09	12.21.00	Interrupted aortic arch repair,
Interrupted arch repair: using prosthetic graft,	to 1608	12.21.11	12.21.00	Interrupted aortic arch repair,
Interrupted arch repair: partial direct anastomosis with augmentation patch,	to 1608	12.21.10	12.21.00	Interrupted aortic arch repair,
Interrupted arch repair: posterior direct anastomosis & anterior augmentation patch,	to 1608	12.21.12	12.21.00	Interrupted aortic arch repair,
Interrupted aortic arch repair: direct extended end to end anastomosis,	to 1000	12.21.04	12.21.00	Interrupted aortic arch repair,
Interrupted aortic arch repair: direct radically extended end to end anastomosis,	to 1000	12.21.05	12.21.00	Interrupted aortic arch repair,
Interrupted aortic arch repair: direct end (descending aorta) to side anastomosis,	to 1000	12.21.06	12.21.00	Interrupted aortic arch repair,
Interrupted aortic arch repair: insertion of interposition tube graft,	to 1630	12.21.02	12.21.00	Interrupted aortic arch repair,
Interrupted aortic arch repair: staged approach (ventricular septal defect unclosed with or without banding of pulmonary trunk),	to 1000	12.21.07	12.21.00	Interrupted aortic arch repair,
Interrupted aortic arch repair: left carotid artery anastomosis to descending aorta (swing down),	to 1000	12.21.13	12.21.00	Interrupted aortic arch repair,
Interrupted aortic arch procedure,	to 1000	12.21.03	12.21.00	Interrupted aortic arch repair,
Interrupted aortic arch reoperation procedures	to 1168	not relevant		
Ventricular septal defect (VSD) closure procedures	to 1100	not relevant		
1168 Interrupted aortic arch reoperation procedures				
Interrupted aortic arch reoperation,	to 1000	12.21.20	12.18.30	Aortic arch repair,
Interrupted aortic arch reoperation: graft change or arch augmentation,	to 1608	12.21.21	12.18.30	Aortic arch repair,
Interrupted aortic arch reoperation: additional prosthetic graft,	to 1608	12.21.22	12.18.30	Aortic arch repair,
Interrupted aortic arch reoperation: replacement of prosthetic graft,	to 1608	12.21.23	12.18.30	Aortic arch repair,
Interrupted aortic arch reoperation: arch augmentation plasty,	to 1000	12.21.24	12.18.30	Aortic arch repair,
Other procedures involving constructed conduits	to 1261	not relevant		
Transluminal catheter procedures aorta & systemic arteries	to 1450	not relevant		

1169 Aberrant & isolated subclavian arterial procedures

Aberrant subclavian artery ligation.	to 1604	12.22.01	12.22.00	Systemic arterial procedure.
Aberrant subclavian artery reimplantation.	to 1176	12.22.02	12.22.00	Systemic arterial procedure.
Aberrant subclavian arterial procedure.	to 1000	12.22.03	12.22.00	Systemic arterial procedure.
Isolated subclavian artery ligation.	to 1604	12.22.14	12.22.00	Systemic arterial procedure.
Isolated subclavian artery reimplantation.	to 1000	12.22.05	12.22.00	Systemic arterial procedure.
Isolated subclavian artery reimplantation: direct.	to 1000	12.22.06	12.22.00	Systemic arterial procedure.
Isolated subclavian artery reimplantation with autologous flap.	to 1600	12.22.07	12.22.00	Systemic arterial procedure.
Isolated subclavian artery reimplantation with interposition tube graft.	to 1630	12.22.08	12.22.00	Systemic arterial procedure.
Isolated subclavian artery reimplantation with patch augmentation.	to 1610	12.22.09	12.22.00	Systemic arterial procedure.

1170 Carotid arterial procedures

Carotid arterial procedure.	to 1000	12.22.40	12.22.00	Systemic arterial procedure.
Carotid arterial procedure: right.	to 1000	12.22.41	12.22.00	Systemic arterial procedure.
Carotid arterial procedure: left.	to 1000	12.22.42	12.22.00	Systemic arterial procedure.
Carotid artery repair.	to 1000	12.22.43	12.22.00	Systemic arterial procedure.
Carotid artery repair: right.	to 1000	12.22.44	12.22.00	Systemic arterial procedure.
Carotid artery repair: left.	to 1000	12.22.45	12.22.00	Systemic arterial procedure.
Carotid artery reconstruction.	to 1000	12.22.46	12.22.00	Systemic arterial procedure.
Carotid artery reconstruction: right.	to 1000	12.22.47	12.22.00	Systemic arterial procedure.
Carotid artery reconstruction: left.	to 1000	12.22.48	12.22.00	Systemic arterial procedure.
Carotid artery endarterectomy.	to 1000	12.22.49	12.22.00	Systemic arterial procedure.
Carotid artery endarterectomy: right.	to 1000	12.22.50	12.22.00	Systemic arterial procedure.
Carotid artery endarterectomy: left.	to 1000	12.22.51	12.22.00	Systemic arterial procedure.
Carotid artery endarterectomy with patch angioplasty.	to 1608	12.22.52	12.22.00	Systemic arterial procedure.
Carotid artery endarterectomy with patch angioplasty: right.	to 1608	12.22.53	12.22.00	Systemic arterial procedure.
Carotid artery endarterectomy with patch angioplasty: left.	to 1608	12.22.54	12.22.00	Systemic arterial procedure.
Carotid artery ligation.	to 1000	12.22.55	12.22.00	Systemic arterial procedure.
Carotid artery ligation: right.	to 1000	12.22.56	12.22.00	Systemic arterial procedure.
Carotid artery ligation: left.	to 1000	12.22.57	12.22.00	Systemic arterial procedure.
Carotid artery outflow.	to 1000	12.22.58	12.22.00	Systemic arterial procedure.
Carotid artery outflow: right.	to 1000	12.22.59	12.22.00	Systemic arterial procedure.
Carotid artery outflow: left.	to 1000	12.22.60	12.22.00	Systemic arterial procedure.

1173 @ Coarctation of aorta repair qualifiers

- native coarctation.	to 1000	Q5.22.01	not relevant
- recurrent coarctation.	to 1000	Q5.22.02	not relevant
- residual coarctation.	to 1000	Q5.22.03	not relevant
- status post stent placement in arterial duct.	to 1000	Q1.97.21	not relevant
- status post coarctation repair at same aortic site.	to 1000	Q1.97.22	not relevant
- status post coarctation repair at different aortic site.	to 1000	Q1.97.23	not relevant
- status post transcatheter balloon dilation of coarctation site.	to 1000	Q1.97.28	not relevant
- status post stent placement at aortic coarctation site.	to 1000	Q1.97.29	not relevant
- status post interrupted aortic arch repair.	to 1000	Q1.97.27	not relevant
Materials for patches	to 1608	not relevant	
Materials for conduits	to 1630	not relevant	
no entry	to 1604	not relevant	

1174 @ Location of aortic arch division - qualifiers

- between ascending aorta & left arch.	to 1604	Q5.16.81	not relevant
- between ascending aorta & right arch.	to 1604	Q5.16.82	not relevant
- between left carotid & left subclavian arteries.	to 1604	Q5.16.83	not relevant
- between left subclavian artery & descending aorta.	to 1604	Q5.16.84	not relevant
- between right carotid & right subclavian arteries.	to 1604	Q5.16.85	not relevant
- between right subclavian artery & descending aorta.	to 1604	Q5.16.86	not relevant
no entry	to 1604	not relevant	

1175 @ Techniques for aortic aneurysm and dissection repair - qualifiers

- with external wrap.	to 1608	Q5.17.71	not relevant
- by primary suture.	to 1603	Q5.17.72	not relevant
- using fenestration.	to 1000	Q5.17.73	not relevant
- using patch.	to 1608	Q5.17.74	not relevant
- using tube graft.	to 1630	Q5.17.75	not relevant
- using tube graft & inclusion wrap.	to 1608	Q5.17.76	not relevant
- using tube graft & exclusion/ resection.	to 1630	Q5.17.77	not relevant
- using tube graft with patch to arch vessels (Carrel).	to 1630	Q5.17.78	not relevant
- using tube graft with incorporation of arch branch vessels.	to 1630	Q5.17.79	not relevant
- using bypass tube graft.	to 1630	Q5.17.80	not relevant
- using tube graft to bypass arch vessels.	to 1630	Q5.17.81	not relevant
- using interposition tube graft.	to 1630	Q5.17.82	not relevant
- using 'elephant trunk' proximal tube graft.	to 1630	Q5.17.83	not relevant
- using 'elephant trunk' distal tube graft.	to 1630	Q5.17.84	not relevant
- using bifurcating tube graft.	to 1630	Q5.17.85	not relevant
- using bifurcating interposition tube graft.	to 1630	Q5.17.86	not relevant
- using bifurcating bypass tube graft.	to 1630	Q5.17.87	not relevant
- using tube graft: valve sparing (Yacoub/David).	to 1630	Q5.17.90	not relevant
- by valved conduit.	to 1630	Q5.17.88	not relevant
- by valved conduit & 'elephant trunk distal'.	to 1630	Q5.17.91	not relevant
- by valved conduit & exclusion/ resection.	to 1630	Q5.17.92	not relevant
- by valved conduit & inclusion wrap.	to 1630	Q5.17.93	not relevant
- using endovascular stent.	to 1660	Q5.17.89	not relevant
- interposition tube graft within aneurysm wall (inclusion).	to 1660	Q5.17.94	not relevant
- technique for repair (DESCRIBE).	to 1600	Q5.17.99	not relevant
no entry	to 1000	not relevant	

1176 @ Repair of anomalous vessel - qualifiers

- using autologous flap.	to 1000	Q5.45.01	not relevant
- using conduit.	to 1630	Q5.45.02	not relevant
- direct reimplantation.	to 1000	Q5.45.03	not relevant
no entry	to 1000	not relevant	

1177@ Techniques for supravalvar aortic stenosis repair - qualifiers

- simple patch.	to 1608	Q5.45.21	not relevant
- patch to each sinus (Brom).	to 1608	Q5.45.22	not relevant
- extended patch (Doty).	to 1608	Q5.45.23	not relevant
- patch to both coronary ostia.	to 1608	Q5.45.24	not relevant
- patch to right coronary ostium.	to 1608	Q5.45.25	not relevant
- patch to left coronary ostium.	to 1608	Q5.45.26	not relevant
no entry	to 1000	not relevant	

End of branch

1180 Arterial duct (ductus arteriosus - PDA) & ligament procedures

Arterial duct (PDA) closure procedures	to 1181	not relevant		
Arterial duct transmural transcatheter procedures	to 1450	not relevant		
Arterial ligament procedures	to 1182	not relevant		
Arterial duct-ligament procedure.	to 1000	12.24.00	12.24.00	Arterial duct-ligament procedure.
Arterial duct aneurysm resection.	to 1000	12.24.06	12.24.00	Arterial duct-ligament procedure.
Arterial duct patency (PDA) maintained with prostaglandin E.	to 1000	12.24.07	17.00.01	Medical therapy for cardiovascular disease.
Formalin infiltration of arterial duct (PDA).	to 1000	12.24.08	12.24.00	Arterial duct-ligament procedure.
Excision of vegetations proximate to arterial duct.	to 1000	12.24.09	12.32.20	Removal of cardiac vegetations.

1181 Arterial duct (PDA) closure procedures

Arterial duct (PDA) closure.	to 1000	12.24.10	12.24.10	Arterial duct (PDA) closure.
Arterial duct (PDA) closure using indomethacin therapy.	to 1000	12.24.17	12.24.10	Arterial duct (PDA) closure.
Patent arterial duct (PDA) closure: surgical.	to 1604	12.24.20	12.24.20	Patent arterial duct (PDA) closure: surgical.
Ligation of patent arterial duct (PDA).	to 1604	12.24.23	12.24.20	Patent arterial duct (PDA) closure: surgical.
Ligation & division of patent arterial duct (PDA).	to 1604	12.24.24	12.24.20	Patent arterial duct (PDA) closure: surgical.
Ligation of left arterial duct (PDA).	to 1604	12.24.01	12.24.20	Patent arterial duct (PDA) closure: surgical.
Division of left arterial duct (PDA) or ligament.	to 1604	12.24.02	12.24.20	Patent arterial duct (PDA) closure: surgical.
Ligation of right arterial duct (PDA).	to 1604	12.24.12	12.24.20	Patent arterial duct (PDA) closure: surgical.
Division of right arterial duct (PDA) or ligament.	to 1604	12.24.13	12.24.20	Patent arterial duct (PDA) closure: surgical.
Closure of arterial duct (PDA) with clip.	to 1604	12.24.11	12.24.20	Patent arterial duct (PDA) closure: surgical.
Thoracoscopic closure of arterial duct (PDA) with clip.	to 1604	12.24.14	12.24.20	Patent arterial duct (PDA) closure: surgical.
Transpulmonary endovascular oversewing of arterial duct (PDA).	to 1000	12.24.15	12.24.20	Patent arterial duct (PDA) closure: surgical.
Transaortic endovascular oversewing of arterial duct (PDA).	to 1000	12.24.26	12.24.20	Patent arterial duct (PDA) closure: surgical.
Excision of arterial duct.	to 1000	12.24.16	12.24.20	Patent arterial duct (PDA) closure: surgical.
Patent arterial duct (PDA) closure with patch.	to 1608	12.24.25	12.24.20	Patent arterial duct (PDA) closure: surgical.

1182 Arterial ligament procedures

Arterial ligament procedure,	to 1000	12.24.40	12.24.00	Arterial duct-ligament procedure,
Arterial ligament division,	to 1604	12.24.41	12.24.00	Arterial duct-ligament procedure,
Arterial ligament division: left-sided,	to 1604	12.24.42	12.24.00	Arterial duct-ligament procedure,
Arterial ligament division: right-sided,	to 1604	12.24.43	12.24.00	Arterial duct-ligament procedure,
Arterial ligament ligation,	to 1604	12.24.44	12.24.00	Arterial duct-ligament procedure,
Arterial ligament ligation: left-sided,	to 1604	12.24.45	12.24.00	Arterial duct-ligament procedure,
Arterial ligament ligation: right-sided,	to 1604	12.24.46	12.24.00	Arterial duct-ligament procedure,

End of branch				

1190 Procedures involving arteriovenous fistula(s)

Arteriovenous fistula closure,	to 1000	12.25.01	12.25.02	Arteriovenous fistula occlusion,
Arteriovenous fistula occlusion procedures,	to 1457	not relevant		
Pulmonary arteriovenous fistula closure,	to 1604	12.25.07	12.25.07	Pulmonary arteriovenous fistula closure,
Cerebral arteriovenous fistula closure,	to 1604	12.25.03	12.25.02	Arteriovenous fistula occlusion,
Hepatic arteriovenous fistula closure,	to 1604	12.25.05	12.25.02	Arteriovenous fistula occlusion,
Peripheral arteriovenous fistula closure,	to 1604	12.25.09	12.25.02	Arteriovenous fistula occlusion,
Procedure involving arteriovenous fistula,	to 1000	12.25.11	12.25.02	Arteriovenous fistula occlusion,
Arteriovenous fistula creation,	to 3200	12.25.13	12.22.00	Systemic arterial procedure,

End of branch				

1200 Fallot, Fallot-type double outlet right ventricle & pulmonary atresia procedures

Tetralogy of Fallot repair,	to 1085	12.26.01	12.26.01	Tetralogy of Fallot repair,
Tetralogy of Fallot repair with transannular patch,	to 1086	12.26.13	12.26.13	Tetralogy of Fallot repair with transannular patch,
Tetralogy of Fallot repair without transannular patch,	to 1085	12.26.20	12.26.20	Tetralogy of Fallot repair without transannular patch,
Absent pulmonary valve syndrome (Fallot type) repair,	to 1085	12.26.21	12.26.21	Absent pulmonary valve syndrome (Fallot type) repair,
Absent pulmonary valve syndrome (Fallot type) repair with pulmonary valve insertion,	to 1620	12.26.22	12.26.21	Absent pulmonary valve syndrome (Fallot type) repair,
Atrioventricular septal defect (AVSD) & Tetralogy of Fallot repair,	to 1051	12.05.11	12.05.11	Atrioventricular septal defect (AVSD) & Tetralogy of Fallot repair,
Double outlet right ventricle repair,	to 1600	12.29.20	12.29.20	Double outlet right ventricle repair,

Double outlet right ventricle with subaortic or doubly committed ventricular septal defect (VSD) & pulmonary stenosis (Fallot-type) repair,	to 1085	12.27.01	12.27.01	Double outlet right ventricle with subaortic or doubly committed ventricular septal defect (VSD) & pulmonary stenosis (Fallot-type) repair,
Pulmonary atresia & ventricular septal defect (VSD) (including Fallot-type) repair,	to 1085	12.28.01	12.28.01	Pulmonary atresia & ventricular septal defect (VSD) (including Fallot-type) repair,

Pulmonary atresia & ventricular septal defect (VSD) (including Fallot-type) repair: intraventricular left ventricle to aorta tunnel,	to 1085	12.28.12	12.28.01	Pulmonary atresia & ventricular septal defect (VSD) (including Fallot-type) repair,
Pulmonary atresia, ventricular septal defect (VSD) & systemic-to-pulmonary collateral artery(ies) (MAPCA(s)) repair,	to 1085	12.28.11	12.28.11	Pulmonary atresia, ventricular septal defect (VSD) & systemic-to-pulmonary collateral artery(ies) (MAPCA(s)) repair,
Pulmonary atresia, ventricular septal defect (VSD) & MAPCA(s) 1 stage repair: unifocalisation & left ventricle to aorta tunnel,	to 1085	12.28.13	12.28.11	Pulmonary atresia, ventricular septal defect (VSD) & systemic-to-pulmonary collateral artery(ies) (MAPCA(s)) repair,
Pulmonary atresia, ventricular septal defect (VSD) & MAPCA(s) 1 stage repair: unifocalisation & ventricular septal defect (VSD) closure,	to 1085	12.28.14	12.28.11	Pulmonary atresia, ventricular septal defect (VSD) & systemic-to-pulmonary collateral artery(ies) (MAPCA(s)) repair,
Pulmonary atresia, ventricular septal defect (VSD) & MAPCA(s) 1 stage repair: unifocalisation & ventricular septal defect (VSD) left open,	to 1085	12.28.15	12.28.11	Pulmonary atresia, ventricular septal defect (VSD) & systemic-to-pulmonary collateral artery(ies) (MAPCA(s)) repair,
Right ventricular outflow tract procedures	to 1085	not relevant		
Pulmonary valvar, trunk & arterial procedures	to 1120	not relevant		
Ventricular septal defect (VSD) procedures	to 1100	not relevant		
Atrial septal procedures	to 1020	not relevant		
Ventricular septal defect (VSD) left unclosed,	to 1101	12.08.17		No equivalent
Procedures involving aorto-pulmonary collateral arteries (MAPCAs)	to 1205	not relevant		

1205 Procedures involving aorto-pulmonary collateral arteries (MAPCAs)

Systemic-to-pulmonary collateral artery(ies) (MAPCA(s)) occlusion,	to 1212	12.25.18	12.25.18	Systemic-to-pulmonary collateral artery(ies) (MAPCA(s)) occlusion,
Transluminal procedures for major aorto-pulmonary collateral arteries (MAPCA),	to 1457	not relevant		
Systemic-to-pulmonary collateral artery (MAPCA) banding,	to 1212	12.25.63	12.22.00	Systemic arterial procedure,
Systemic-to-pulmonary collateral artery (MAPCA) occlusion: surgical,	to 1212	12.25.64	12.25.18	Systemic-to-pulmonary collateral artery(ies) (MAPCA(s)) occlusion,
Systemic-to-pulmonary collateral artery (MAPCA) occlusion: division,	to 1212	12.25.73	12.25.18	Systemic-to-pulmonary collateral artery(ies) (MAPCA(s)) occlusion,
Systemic-to-pulmonary collateral artery (MAPCA) occlusion: ligation,	to 1212	12.25.74	12.25.18	Systemic-to-pulmonary collateral artery(ies) (MAPCA(s)) occlusion,
Right systemic-to-pulmonary collateral artery (MAPCA) ligation,	to 1212	12.25.21	12.25.18	Systemic-to-pulmonary collateral artery(ies) (MAPCA(s)) occlusion,
Right systemic-to-pulmonary collateral artery (MAPCA) banding,	to 1212	12.25.22	12.22.00	Systemic arterial procedure,
Left systemic-to-pulmonary collateral artery (MAPCA) ligation,	to 1212	12.25.24	12.25.18	Systemic-to-pulmonary collateral artery(ies) (MAPCA(s)) occlusion,
Left systemic-to-pulmonary collateral artery (MAPCA) banding,	to 1212	12.25.25	12.22.00	Systemic arterial procedure,
Systemic-to-pulmonary collateral artery (MAPCA) arterioplasty,	to 1212	12.25.75	12.22.00	Systemic arterial procedure,
Procedure involving systemic-to-pulmonary collateral artery (MAPCA),	to 1212	12.25.27	12.22.00	Systemic arterial procedure,
Systemic-to-pulmonary collateral artery(ies) (MAPCA(s)) unifocalisation procedure,	to 1250	12.25.00	12.25.00	Systemic-to-pulmonary collateral artery(ies) (MAPCA(s)) unifocalisation procedure,

Systemic-to-pulmonary collateral artery(ies) (MAPCA(s)) unifocalisation procedure without systemic-to-pulmonary arterial shunt,	to 1212	12.25.66	12.25.00	Systemic-to-pulmonary collateral artery(ies) (MAPCA(s)) unifocalisation procedure,
Systemic-to-pulmonary collateral artery(ies) (MAPCA(s)) unifocalisation procedure: unilateral,	to 1212	12.25.67	12.25.00	Systemic-to-pulmonary collateral artery(ies) (MAPCA(s)) unifocalisation procedure,
Systemic-to-pulmonary collateral artery(ies) (MAPCA(s)) unifocalisation procedure: bilateral,	to 1212	12.25.68	12.25.00	Systemic-to-pulmonary collateral artery(ies) (MAPCA(s)) unifocalisation procedure,
Right systemic-to-pulmonary collateral artery(ies) (MAPCA(s)) unifocalisation procedures	to 1206	not relevant		
Left systemic-to-pulmonary collateral artery(ies) (MAPCA(s)) unifocalisation procedures	to 1207	not relevant		
Central systemic-to-pulmonary collateral artery(ies) (MAPCA(s)) unifocalisation procedures	to 1208	not relevant		

1206 Right systemic-to-pulmonary collateral artery(ies) (MAPCA(s)) unifocalisation procedures

Right systemic-to-pulmonary collateral artery(ies) (MAPCA(s)) unifocalisation,	to 1250	12.25.30	12.25.00	Systemic-to-pulmonary collateral artery(ies) (MAPCA(s)) unifocalisation procedure,

Right systemic-to-pulmonary collateral artery(ies) (MAPCA(s)) unifocalisation with anastomosis to conduit-pulmonary artery,	to 1250	12.25.31	12.25.00	Systemic-to-pulmonary collateral artery(ies) (MAPCA(s)) unifocalisation procedure,
Right systemic-to-pulmonary collateral artery(ies) (MAPCA(s)) unifocalisation with systemic-to-pulmonary collateral artery (MAPCA(s)) anastomosis,	to 1250	12.25.32	12.25.00	Systemic-to-pulmonary collateral artery(ies) (MAPCA(s)) unifocalisation procedure,
Right systemic-to-pulmonary collateral artery(ies) (MAPCA(s)) unifocalisation with subclavian artery anastomosis,	to 1250	12.25.33	12.25.00	Systemic-to-pulmonary collateral artery(ies) (MAPCA(s)) unifocalisation procedure,
Right systemic-to-pulmonary collateral artery(ies) (MAPCA(s)) unifocalisation with innominate artery anastomosis,	to 1250	12.25.34	12.25.00	Systemic-to-pulmonary collateral artery(ies) (MAPCA(s)) unifocalisation procedure,
Right systemic-to-pulmonary collateral artery(ies) (MAPCA(s)) unifocalisation with ascending aorta anastomosis,	to 1250	12.25.35	12.25.00	Systemic-to-pulmonary collateral artery(ies) (MAPCA(s)) unifocalisation procedure,
Right systemic-to-pulmonary collateral artery(ies) (MAPCA(s)) unifocalisation using azygos system,	to 1250	12.25.36	12.25.00	Systemic-to-pulmonary collateral artery(ies) (MAPCA(s)) unifocalisation procedure,
Right systemic-to-pulmonary collateral artery(ies) (MAPCA(s)) unifocalisation with anastomosis using pericardial roll,	to 1250	12.25.37	12.25.00	Systemic-to-pulmonary collateral artery(ies) (MAPCA(s)) unifocalisation procedure,

1207 Left systemic-to-pulmonary collateral artery(ies) (MAPCA(s)) unifocalisation procedures

Left systemic-pulmonary collateral artery(ies) (MAPCA(s)) unifocalisation,	to 1250	12.25.40	12.25.00	Systemic-to-pulmonary collateral artery(ies) (MAPCA(s)) unifocalisation procedure,

Left systemic-pulmonary collateral artery(ies) (MAPCA(s)) unifocalisation with anastomosis to conduit-pulmonary artery,	to 1250	12.25.41	12.25.00	Systemic-to-pulmonary collateral artery(ies) (MAPCA(s)) unifocalisation procedure,
Left systemic-pulmonary collateral artery(ies) (MAPCA(s)) unifocalisation with systemic-to-pulmonary collateral artery (MAPCA(s)) anastomosis,	to 1250	12.25.42	12.25.00	Systemic-to-pulmonary collateral artery(ies) (MAPCA(s)) unifocalisation procedure,
Left systemic-pulmonary collateral artery(ies) (MAPCA(s)) unifocalisation with subclavian artery anastomosis,	to 1250	12.25.43	12.25.00	Systemic-to-pulmonary collateral artery(ies) (MAPCA(s)) unifocalisation procedure,
Left systemic-pulmonary collateral artery(ies) (MAPCA(s)) unifocalisation with innominate artery anastomosis,	to 1250	12.25.44	12.25.00	Systemic-to-pulmonary collateral artery(ies) (MAPCA(s)) unifocalisation procedure,
Left systemic-pulmonary collateral artery(ies) (MAPCA(s)) unifocalisation with ascending aorta anastomosis,	to 1250	12.25.45	12.25.00	Systemic-to-pulmonary collateral artery(ies) (MAPCA(s)) unifocalisation procedure,
Left systemic-pulmonary collateral artery(ies) (MAPCA(s)) unifocalisation using azygos system,	to 1250	12.25.46	12.25.00	Systemic-to-pulmonary collateral artery(ies) (MAPCA(s)) unifocalisation procedure,
Left systemic-pulmonary collateral artery(ies) (MAPCA(s)) unifocalisation with anastomosis using pericardial roll,	to 1250	12.25.47	12.25.00	Systemic-to-pulmonary collateral artery(ies) (MAPCA(s)) unifocalisation procedure,

1208 Central systemic-to-pulmonary collateral artery(ies) (MAPCA(s)) unifocalisation procedures

Central systemic-pulmonary collateral artery(ies) (MAPCA(s)) unifocalisation,	to 1250	12.25.50	12.25.00	Systemic-to-pulmonary collateral artery(ies) (MAPCA(s)) unifocalisation procedure,

Central systemic-to-pulmonary collateral artery(ies) (MAPCA(s)) unifocalisation with anastomosis to conduit-pulmonary artery,	to 1250	12.25.51	12.25.00	Systemic-to-pulmonary collateral artery(ies) (MAPCA(s)) unifocalisation procedure,
Central systemic-to-pulmonary collateral artery(ies) (MAPCA(s)) unifocalisation with systemic-to-pulmonary collateral artery (MAPCA(s)) anastomosis,	to 1250	12.25.52	12.25.00	Systemic-to-pulmonary collateral artery(ies) (MAPCA(s)) unifocalisation procedure,
Central systemic-to-pulmonary collateral artery(ies) (MAPCA(s)) unifocalisation with subclavian artery anastomosis,	to 1250	12.25.53	12.25.00	Systemic-to-pulmonary collateral artery(ies) (MAPCA(s)) unifocalisation procedure,
Central systemic-to-pulmonary collateral artery(ies) (MAPCA(s)) unifocalisation with innominate artery anastomosis,	to 1250	12.25.54	12.25.00	Systemic-to-pulmonary collateral artery(ies) (MAPCA(s)) unifocalisation procedure,
Central systemic-to-pulmonary collateral artery(ies) (MAPCA(s)) unifocalisation with ascending aorta anastomosis,	to 1250	12.25.55	12.25.00	Systemic-to-pulmonary collateral artery(ies) (MAPCA(s)) unifocalisation procedure,
Central systemic-to-pulmonary collateral artery(ies) (MAPCA(s)) unifocalisation using azygos system,	to 1250	12.25.56	12.25.00	Systemic-to-pulmonary collateral artery(ies) (MAPCA(s)) unifocalisation procedure,

Central systemic-to-pulmonary collateral artery(ies) (MAPCA(s)) unifocalisation with anastomosis using pericardial roll,	to 1250	12.25.57	12.25.00	Systemic-to-pulmonary collateral artery(ies) (MAPCA(s)) unifocalisation procedure,

1212 @ Specific systemic-to-pulmonary artery involved in procedure - qualifiers

- right-sided collateral(s),	to 5	Q5.18.01	not relevant	
- left-sided collateral(s),	to 5	Q5.18.02	not relevant	
- collateral(s) from descending thoracic aorta,	to 5	Q5.18.03	not relevant	
- collateral(s) from descending thoracic aorta: right-sided,	to 5	Q5.18.04	not relevant	
- collateral(s) from descending thoracic aorta: left sided,	to 5	Q5.18.05	not relevant	
- collateral from left innominate artery or branches,	to 5	Q5.18.06	not relevant	
- collateral from right innominate artery or branches,	to 5	Q5.18.07	not relevant	
- collateral from coronary artery,	to 5	Q5.18.08	not relevant	
- collateral from abdominal aorta,	to 5	Q5.18.09	not relevant	
- collateral from right carotid artery,	to 5	Q5.18.10	not relevant	
- collateral from left carotid artery,	to 5	Q5.18.11	not relevant	
- collateral from right renal artery,	to 5	Q5.18.12	not relevant	
- collateral from left renal artery,	to 5	Q5.18.13	not relevant	
- collateral connecting with central pulmonary arteries,	to 5	Q5.18.14	not relevant	
- collateral connecting with isolated intraparenchymal pulmonary arteries,	to 5	Q5.18.15	not relevant	
- collateral connecting with bronchial-tracheal arteries,	to 5	Q5.18.16	not relevant	
- collateral contributing to dual lung supply,	to 5	Q5.18.17	not relevant	
- collateral artery unspecified or unknown,	to 5	Q5.18.18	not relevant	
Details of ligation-division procedure: qualifiers	to 1604	not relevant		
Details of banding procedure: qualifiers	to 1645	not relevant		
Details of transcatheter ballooning procedure: qualifiers	to 1663	not relevant		

Details of transcatheter stent materials: qualifiers	to 1650	not relevant
Details of transcatheter occlusion device materials: qualifiers	to 1660	not relevant
no entry	to 5	not relevant

End of branch

1215 Transposition of great arteries & non-Fallot type double outlet ventricle procedures

Atrial procedures	to 1216	not relevant	
Double outlet right ventricle repair (non-Fallot type)	to 1217	not relevant	
Procedures for congenitally corrected transposition of the great arteries	to 1220	not relevant	
Procedures for anatomically corrected malposition of the great arteries	to 1222	not relevant	
Double outlet left ventricle procedures	to 1223	not relevant	
Arterial switch procedure,	to 1225	12.29.21	12.29.21 Arterial switch procedure,
Arterial switch procedure without anterior pulmonary trunk translocation (Lecompte),	to 1225	12.29.22	12.29.21 Arterial switch procedure,
Arterial switch procedure with anterior pulmonary trunk translocation (Lecompte),	to 1225	12.29.23	12.29.21 Arterial switch procedure,
Arterial switch procedure: two stages,	to 1225	12.29.24	12.29.21 Arterial switch procedure,
Aortic root posterior translocation to left ventricle + biventricular outflow tract reconstruction (Nikaidoh),	to 1225	12.27.48	12.27.78 Aortic root translocation to over left ventricle (including Nikaidoh),
Aortic root posterior translocation to left ventricle with half turn 'truncal' switch,	to 1225	12.27.79	12.27.78 Aortic root translocation to over left ventricle (including Nikaidoh),
Aortic root translocation to over left ventricle (including Nikaidoh),	to 1225	12.27.78	12.27.78 Aortic root translocation to over left ventricle (including Nikaidoh),
Arterial switch + left ventricle to pulmonary trunk intraventricular tunnel creation,	to 1608	12.27.49	12.29.40 Complex transposition of great arteries repair,
Rastelli procedure: intraventricular left ventricle to aorta tunnel & right ventricle to pulmonary artery conduit,	to 1600	12.29.11	12.29.11 Rastelli procedure: intraventricular left ventricle to aorta tunnel & right ventricle to pulmonary artery conduit,
Rastelli procedure: intraventricular left ventricle to aorta tunnel & right ventricle to pulmonary artery conduit using segment of ascending aorta to elongate pulmonary trunk (Metras),	to 1600	12.29.28	12.29.11 Rastelli procedure: intraventricular left ventricle to aorta tunnel & right ventricle to pulmonary artery conduit,
REV procedure: intraventricular left ventricle to aorta tunnel with infundibular septum resection & direct right ventricle to pulmonary trunk anastomosis,	to 1229	12.27.45	12.27.45 REV procedure: intraventricular left ventricle to aorta tunnel with infundibular septum resection & direct right ventricle to pulmonary trunk anastomosis,
REV procedure: intraventricular left ventricle to aorta tunnel with infundibular septum resection & direct right ventricle to pulmonary trunk anastomosis (with Lecompte manoeuvre),	to 1229	12.27.71	12.27.45 REV procedure: intraventricular left ventricle to aorta tunnel with infundibular septum resection & direct right ventricle to pulmonary trunk anastomosis,
REV procedure: intraventricular left ventricle to aorta tunnel with infundibular septum resection & direct right ventricle to pulmonary trunk anastomosis (without Lecompte manoeuvre),	to 1229	12.27.72	12.27.45 REV procedure: intraventricular left ventricle to aorta tunnel with infundibular septum resection & direct right ventricle to pulmonary trunk anastomosis,
REV procedure: intraventricular left ventricle to aorta tunnel with infundibular septum resection & direct right ventricle to pulmonary trunk anastomosis with aortic autograft interposition (Metras),	to 1229	12.27.83	12.27.45 REV procedure: intraventricular left ventricle to aorta tunnel with infundibular septum resection & direct right ventricle to pulmonary trunk anastomosis,
Transposition of great arteries procedure,	to 1000	12.29.05	12.32.21 Cardiac procedure,
Complex transposition of great arteries repair,	to 1000	12.29.40	12.29.40 Complex transposition of great arteries repair,
Ventricular outflow tract procedures	to 1080	not relevant	
Pulmonary valvar, trunk & arterial procedures	to 1120	not relevant	
Ventricular septal defect (VSD) procedures	to 1100	not relevant	
Atrioventricular valvar procedures	to 1028	not relevant	
One and one half (1.5) ventricle repair	to 1255	not relevant	

1216 Atrial procedures for transposition of the great arteries & non-Fallot double outlet right ventricle

Balloon atrial septostomy by pull back (Rashkind),	to 1000	12.01.41	12.01.41 Balloon atrial septostomy by pull back (Rashkind),
Atrial septectomy: closed (Blalock Hanton),	to 1000	12.01.42	12.01.42 Atrial septectomy: closed (Blalock Hanton),
Atrial septectomy,	to 1000	12.01.43	12.01.43 Atrial septectomy,
Blade atrial septostomy,	to 1000	12.01.44	12.01.44 Blade atrial septostomy,
Atrial inversion procedure: take down,	to 1000	12.29.10	12.01.57 Atrial baffle procedure,
Senning procedure (atrial inversion) takedown,	to 1000	12.29.16	12.01.57 Atrial baffle procedure,
Mustard procedure (atrial inversion) takedown,	to 1000	12.29.17	12.01.57 Atrial baffle procedure,
Atrial inversion (Senning-Mustard type) procedures	to 1025	not relevant	
Pulmonary venous pathway (post Senning-Mustard) procedures	to 1008	not relevant	
Systemic venous pathway (post Senning-Mustard) procedures	to 1010	not relevant	

1217 Double outlet right ventricle repair (non-Fallot type)

Double outlet right ventricle repair,	to 1600	12.29.20	12.29.20 Double outlet right ventricle repair,
Double outlet right ventricle (non-Fallot-type) procedure,	to 1000	12.27.60	12.29.20 Double outlet right ventricle repair,
Double outlet right ventricle repair: arterial switch procedure with intraventricular left ventricle to neo-aorta tunnel,	to 1608	12.27.44	12.27.02 Double outlet right ventricle repair with intraventricular tunnel,
Double outlet right ventricle repair: intraventricular tunnel & resection of infundibular septum,	to 1105	12.27.43	12.27.02 Double outlet right ventricle repair with intraventricular tunnel,
Double outlet right ventricle repair: intraventricular tunnel & pulmonary outflow obstruction repair,	to 1608	12.27.65	12.27.02 Double outlet right ventricle repair with intraventricular tunnel,
Double outlet right ventricle repair with intraventricular tunnel,	to 1608	12.27.02	12.27.02 Double outlet right ventricle repair with intraventricular tunnel,
Double outlet right ventricle repair: intraventricular left ventricle to aorta posterior-to-pulmonary trunk tunnel (posterior aorta; Kawashima),	to 1608	12.27.42	12.27.02 Double outlet right ventricle repair with intraventricular tunnel,
Double outlet right ventricle repair: intraventricular left ventricle to aorta anterior spiral tunnel (subpulmonary ventricular septal defect (VSD): Patrick-McGoorn),	to 1608	12.27.61	12.27.02 Double outlet right ventricle repair with intraventricular tunnel,
Double outlet right ventricle repair: intraventricular left ventricle to aorta anterior tubular conduit (Doty),	to 1608	12.27.62	12.27.02 Double outlet right ventricle repair with intraventricular tunnel,
Double outlet right ventricle repair: intraventricular left ventricle to aorta posterior tubular conduit (Abe),	to 1608	12.27.63	12.27.02 Double outlet right ventricle repair with intraventricular tunnel,
Double outlet right ventricle repair: intraventricular left ventricle to pulmonary trunk tunnel,	to 1608	12.27.77	12.27.02 Double outlet right ventricle repair with intraventricular tunnel,
Double outlet right ventricle repair: intraventricular left ventricle to pulmonary trunk (+ aorta) tunnel & Damus aorta-pulmonary connection & right ventricle to pulmonary artery conduit,	to 1608	12.27.64	12.27.02 Double outlet right ventricle repair with intraventricular tunnel,
Double outlet right ventricle repair: intraventricular left ventricle to pulmonary trunk (+ aorta) tunnel & Damus aorta-pulmonary connection & direct left ventricle to pulmonary trunk anastomosis (REV type),	to 1608	12.27.68	12.27.02 Double outlet right ventricle repair with intraventricular tunnel,
Double outlet right ventricle repair: intraventricular left ventricle to pulmonary trunk (+ aorta) tunnel & Damus aorta-pulmonary connection & direct left ventricle to pulmonary trunk anastomosis (REV type) with Lecompte manoeuvre,	to 1608	12.27.69	12.27.02 Double outlet right ventricle repair with intraventricular tunnel,
Double outlet right ventricle repair: intraventricular left ventricle to pulmonary trunk (+ aorta) tunnel & Damus aorta-pulmonary connection & direct right ventricle to pulmonary trunk anastomosis (REV type) without Lecompte manoeuvre,	to 1608	12.27.70	12.27.02 Double outlet right ventricle repair with intraventricular tunnel,
Double outlet right ventricle repair: intraventricular left ventricle to aorta tunnel with multiple patches (noncommitted ventricular septal defect (VSD): Barbero-Marcial),	to 1608	12.27.73	12.27.02 Double outlet right ventricle repair with intraventricular tunnel,
Double outlet right ventricle repair: intraventricular left ventricle to aorta tunnel & direct right ventricle to pulmonary trunk anastomosis (REV type),	to 1608	12.27.74	12.27.02 Double outlet right ventricle repair with intraventricular tunnel,
Double outlet right ventricle repair: intraventricular left ventricle to aorta tunnel & direct right ventricle to pulmonary trunk anastomosis (REV type) with Lecompte manoeuvre,	to 1608	12.27.75	12.27.02 Double outlet right ventricle repair with intraventricular tunnel,
Double outlet right ventricle repair: intraventricular left ventricle to aorta tunnel & direct right ventricle to pulmonary trunk anastomosis (REV type) without Lecompte manoeuvre,	to 1608	12.27.76	12.27.02 Double outlet right ventricle repair with intraventricular tunnel,
Double outlet right ventricle repair: intraventricular left ventricle to pulmonary trunk tunnel & Mustard procedure,	to 1608	12.27.66	12.27.02 Double outlet right ventricle repair with intraventricular tunnel,
Double outlet right ventricle repair: intraventricular left ventricle to pulmonary trunk tunnel & Senning procedure,	to 1608	12.27.67	12.27.02 Double outlet right ventricle repair with intraventricular tunnel,

1220 Procedures for congenitally corrected transposition of the great arteries

Congenitally corrected transposition of great arteries repair,	to 1000	12.27.46	12.27.46 Congenitally corrected transposition of great arteries repair,
Arterial switch & atrial inversion procedures ('double switch'),	to 1216	12.29.25	12.29.25 Arterial switch & atrial inversion procedures ('double switch'),
Atrial inversion and Rastelli procedures,	to 1600	12.29.26	12.29.26 Atrial inversion and Rastelli procedures,
Atrial inversion procedure & intraventricular reversed tunnel repair (Patrick-McGoorn),	to 1216	12.29.27	12.27.46 Congenitally corrected transposition of great arteries repair,
Congenitally corrected transposition of great arteries anatomic repair: two staged,	to 1000	12.29.29	12.27.46 Congenitally corrected transposition of great arteries repair,
Atrioventricular valvar procedures	to 1028	not relevant	
Ventricular outflow tract procedures	to 1080	not relevant	
Pulmonary valvar, trunk & arterial procedures	to 1120	not relevant	
Ventricular septal defect (VSD) procedures	to 1100	not relevant	

1222 Procedures for anatomically corrected malposition of the great arteries

Anatomically corrected malposition of the great arteries procedure,	to 1000	12.27.80	12.29.40 Complex transposition of great arteries repair,
Anatomically corrected malposition of the great arteries repair,	to 1000	12.27.81	12.29.40 Complex transposition of great arteries repair,
Anatomically corrected malposition of the great arteries procedure: subpulmonary stenosis relief with atrioventricular groove patch plasty (transannular patch plasty of right ventricular outflow tract),	to 1608	12.27.82	12.29.40 Complex transposition of great arteries repair,

1223 Double outlet left ventricle procedures

Double outlet left ventricle repair,	to 1000	12.27.50	12.27.50 Double outlet left ventricle repair,
Double outlet left ventricle repair: right ventricle to pulmonary artery conduit & ventricular septal defect closure,	to 1600	12.27.51	12.27.50 Double outlet left ventricle repair,
Double outlet left ventricle repair: direct pulmonary trunk translocation to right ventricle + ventricular septal defect closure,	to 1229	12.27.52	12.27.50 Double outlet left ventricle repair,
Double outlet left ventricle repair: pulmonary trunk translocation to right ventricle with Lecompte manoeuvre + ventricular septal defect closure,	to 1608	12.27.56	12.27.50 Double outlet left ventricle repair,
Double outlet left ventricle repair: pulmonary trunk translocation to right ventricle without Lecompte manoeuvre + ventricular septal defect closure,	to 1608	12.27.58	12.27.50 Double outlet left ventricle repair,
Double outlet left ventricle repair: intraventricular right ventricle to pulmonary outlet tunnel,	to 1608	12.27.53	12.27.50 Double outlet left ventricle repair,
Double outlet left ventricle repair: pulmonary root translocation to right ventricle + ventricular septal defect closure,	to 1608	12.27.54	12.27.50 Double outlet left ventricle repair,
Double outlet left ventricle repair: extracardiac right ventricle to pulmonary trunk patch anastomosis + ventricular septal defect closure,	to 1608	12.27.55	12.27.50 Double outlet left ventricle repair,
Double outlet left ventricle repair: completely intraventricular,	to 1608	12.27.57	12.27.50 Double outlet left ventricle repair,

1225 @ Techniques for arterial switch procedure - qualifiers

- using classic U-shaped coronary buttons,	to 1226	Q5.28.01	not relevant
- using J-shaped coronary buttons,	to 1226	Q5.28.02	not relevant
- using coronary button extended to posterior neopulmonary valve commissure,	to 1226	Q5.28.03	not relevant
- using U-shaped coronary button + interposed pericardial tube,	to 1226	Q5.28.04	not relevant
- using U-shaped coronary button + pericardial roof,	to 1226	Q5.28.05	not relevant
- using commissural detachment,	to 1226	Q5.28.07	not relevant
no entry	to 1226	not relevant	

1226 @ Techniques for arterial switch procedure: neopulmonary coronary implantation - qualifiers

- coronary implanted using neoValsalva punch hole,	to 1227	Q5.28.11	not relevant
- right coronary implanted using neoValsalva punch hole,	to 1227	Q5.28.12	not relevant
- left coronary implanted using neoValsalva punch hole,	to 1227	Q5.28.13	not relevant
- coronary implanted using neoValsalva resection,	to 1227	Q5.28.14	not relevant
- right coronary implanted using neoValsalva resection,	to 1227	Q5.28.15	not relevant

- left coronary implanted using neoValsalva resection,	to 1227	Q5.28.16	not relevant
- coronary implanted using neoValsalva silt opening,	to 1227	Q5.28.17	not relevant
- right coronary implanted using neoValsalva silt opening,	to 1227	Q5.28.18	not relevant
- left coronary implanted using neoValsalva silt opening,	to 1227	Q5.28.19	not relevant
- coronary implanted with ostial patch enlargement,	to 1227	Q5.28.20	not relevant
- right coronary implanted with ostial patch enlargement,	to 1227	Q5.28.21	not relevant
- left coronary implanted with ostial patch enlargement,	to 1227	Q5.28.22	not relevant
- coronary implanted using trap door technique,	to 1227	Q5.28.23	not relevant
- right coronary implanted using trap door technique,	to 1227	Q5.28.24	not relevant
- left coronary implanted using trap door technique,	to 1227	Q5.28.25	not relevant
- coronary implanted using Takeuchi technique,	to 1227	Q5.28.26	not relevant
- right coronary implanted using Takeuchi technique,	to 1227	Q5.28.27	not relevant
- left coronary implanted using Takeuchi technique,	to 1227	Q5.28.28	not relevant
Materials for patches	to 1608	not relevant	
no entry	to 1227	not relevant	

1227 @ Techniques for arterial switch procedure: neoortic site of coronary implantation - qualifiers

- both coronary arteries sited above neoortic anastomosis,	to 1228	Q5.28.41	not relevant
- both coronary arteries sited at neoortic anastomosis,	to 1228	Q5.28.42	not relevant
- both coronary arteries sited below neoortic anastomosis,	to 1228	Q5.28.43	not relevant
- one coronary artery sited above & one at neoortic anastomosis,	to 1228	Q5.28.44	not relevant
- one coronary artery sited above & one below neoortic anastomosis,	to 1228	Q5.28.45	not relevant
- one coronary artery sited below & one at neoortic anastomosis,	to 1228	Q5.28.46	not relevant
- both coronary arteries implanted into same sinus of Valsalva,	to 1228	Q5.28.47	not relevant
- each coronary artery implanted into separate sinuses of Valsalva,	to 1228	Q5.28.48	not relevant
no entry	to 1228	not relevant	

1228 @ Techniques for arterial switch procedure: neopulmonary artery reconstruction - qualifiers

- central neopulmonary arterial reconstruction,	to 1000	Q5.28.71	not relevant
- neopulmonary arterial reconstruction shifted to right,	to 1000	Q5.28.72	not relevant
- neopulmonary arterial reconstruction shifted to left,	to 1000	Q5.28.73	not relevant
- neopulmonary arterial reconstruction with direct anastomosis,	to 1000	Q5.28.74	not relevant
- neopulmonary arterial reconstruction with patch augmentation,	to 1000	Q5.28.75	not relevant
- neopulmonary arterial reconstruction with patch augmentation: one patch,	to 1000	Q5.28.76	not relevant
- neopulmonary arterial reconstruction with patch augmentation: single pantaloon shaped patch,	to 1000	Q5.28.06	not relevant
- neopulmonary arterial reconstruction with patch augmentation: two patches,	to 1000	Q5.28.77	not relevant
Materials for patches	to 1608	not relevant	
no entry	to 1000	not relevant	

1229 @ Techniques for outflow tract reconstruction procedures - qualifiers

- patch augmentation,	to 1608	Q5.27.80	not relevant
- pedicled flap augmentation,	to 1000	Q5.27.81	not relevant
- pedicled flap augmentation with right atrial wall,	to 1000	Q5.27.82	not relevant
- pedicled flap augmentation with right atrial appendage,	to 1000	Q5.27.83	not relevant
- autologous right atrial appendage patch,	to 1000	Q5.90.33	not relevant
- autologous right atrial appendage pedicle,	to 1000	Q5.90.34	not relevant
- pedicled flap augmentation with left atrial appendage,	to 1000	Q5.27.84	not relevant
- autologous left atrial appendage patch,	to 1000	Q5.90.35	not relevant
- autologous left atrial appendage pedicle,	to 1000	Q5.90.36	not relevant
- pedicled flap augmentation with pedicled pulmonary artery,	to 1000	Q5.27.85	not relevant
- pedicled flap augmentation with pedicled aortic wall,	to 1000	Q5.27.86	not relevant
- pedicled flap augmentation with pericardium,	to 1000	Q5.27.87	not relevant
- autologous pericardial patch,	to 1000	Q5.90.32	not relevant
- autologous pericardial pedicle,	to 1000	Q5.90.37	not relevant
- technique for outflow tract reconstruction (DESCRBE),	to 1000	Q5.27.99	not relevant
no entry	to 1000	not relevant	

End of branch

1230 Procedures for functionally univentricular hearts - Fontan, TCPC

Procedure involving functionally univentricular heart,	to 1000	12.29.00	12.32.21	Cardiac procedure,
Fontan type procedure	to 1231	not relevant		
Total cavopulmonary connection (TCPC)	to 1232	not relevant		
Additional procedures at Fontan or TCPC operation	to 1235	not relevant		
Caval vein to pulmonary arterial anastomoses - Glenn	to 1257	not relevant		
Hypoplastic left heart procedure (including Norwood)	to 1237	not relevant		
Ventricular septation procedure,	to 1608	12.09.01	12.09.01	Ventricular septation procedure,
Partial ventricular septation (Ebert),	to 1608	12.09.05	12.09.01	Ventricular septation procedure,
Completion of ventricular septation,	to 1608	12.09.06	12.09.01	Ventricular septation procedure,
Hemi-Fontan procedure,	to 1608	12.31.15	12.31.15	Hemi-Fontan procedure,
Damus-Kaye-Stansel type procedure: pulmonary trunk to aorta end/side anastomosis,	to 1242	12.09.03	12.09.03	Damus-Kaye-Stansel type procedure: pulmonary trunk to aorta end/side anastomosis,
One and one half (1.5) ventricle repair	to 1255	not relevant		

1231 Fontan type procedure

Fontan type procedure,	to 1000	12.30.01	12.30.01	Fontan type procedure,
Fontan procedure with direct atriopulmonary anastomosis,	to 1000	12.30.32	12.30.32	Fontan procedure with direct atriopulmonary anastomosis,
Fontan procedure: direct atriopulmonary anastomosis + patch enlargement,	to 1608	12.30.30	12.30.32	Fontan procedure with direct atriopulmonary anastomosis,
Fontan procedure with atriopulmonary conduit,	to 1630	12.30.03	12.30.01	Fontan type procedure,
Fontan procedure with atrioventricular connection,	to 1630	12.30.13	12.30.13	Fontan procedure with atrioventricular connection,
Fontan procedure with atrioventricular connection with atrial flap & patch (Bjerk),	to 1630	12.30.35	12.30.13	Fontan procedure with atrioventricular connection,
Fontan procedure with atrioventricular connection with conduit (Malm),	to 1630	12.30.36	12.30.13	Fontan procedure with atrioventricular connection,
Fontan procedure with atrial appendage to pulmonary trunk anastomosis,	to 1000	12.30.14	12.30.32	Fontan procedure with direct atriopulmonary anastomosis,
Fontan type procedure revision or conversion,	to 1685	12.30.37	12.30.37	Fontan type procedure revision or conversion,
Fontan type procedure revision,	to 1685	12.30.33	12.30.37	Fontan type procedure revision or conversion,
Conversion of Fontan repair to total cavopulmonary connection,	to 1000	12.30.34	12.30.34	Conversion of Fontan repair to total cavopulmonary connection,
Takedown of Fontan type procedure,	to 1000	12.30.31	12.30.31	Takedown of Fontan type procedure,
Fenestration procedures for Fontan-type connections	to 1233	not relevant		

1232 Total cavopulmonary connection (TCPC)

Total cavopulmonary connection (TCPC),	to 1233	12.30.50	12.30.50	Total cavopulmonary connection (TCPC),
Total cavopulmonary connection (TCPC) with lateral atrial tunnel,	to 1233	12.30.51	12.30.51	Total cavopulmonary connection (TCPC) with lateral atrial tunnel,
Total cavopulmonary connection (TCPC) with fenestrated lateral atrial tunnel,	to 1233	12.30.06	12.30.06	Total cavopulmonary connection (TCPC) with fenestrated lateral atrial tunnel,
Total cavopulmonary connection (TCPC) using transatrial tube,	to 1233	12.30.52	12.30.50	Total cavopulmonary connection (TCPC),
Total cavopulmonary connection (TCPC) using coronary sinus as conduit,	to 1233	12.30.53	12.30.50	Total cavopulmonary connection (TCPC),
Total cavopulmonary connection (TCPC) using extracardiac inferior caval vein (VC)-pulmonary artery conduit,	to 1233	12.30.54	12.30.54	Total cavopulmonary connection (TCPC) using extracardiac inferior caval vein (VC)-pulmonary artery conduit,
Exclusion of hepatic venous return from total cavopulmonary connection,	to 1233	12.30.05	12.30.05	Total cavopulmonary connection (TCPC) using extracardiac inferior caval vein (VC)-pulmonary artery conduit with fenestration,
Total cavopulmonary connection (TCPC) using direct extracardiac inferior caval vein (VC)-pulmonary artery connection,	to 1233	12.30.57	12.30.54	Total cavopulmonary connection (TCPC) using extracardiac inferior caval vein (VC)-pulmonary artery conduit,
Total cavopulmonary connection (TCPC) using extracardiac lateral para-atrial tunnel,	to 1233	12.30.58	12.30.54	Total cavopulmonary connection (TCPC) using extracardiac inferior caval vein (VC)-pulmonary artery conduit,
Bidirectional superior cavopulmonary anastomosis with interrupted inferior caval vein (VC) (Kawashima),	to 1000	12.30.59	12.31.11	Bidirectional superior cavopulmonary (Glenn) anastomosis,
Bilateral bidirectional superior cavopulmonary anastomoses with interrupted inferior caval vein (VC) (Kawashima),	to 1000	12.30.04	12.31.44	Bilateral bidirectional superior cavopulmonary (Glenn) anastomoses,
Completion of total cavopulmonary connection (TCPC),	to 1233	12.30.55	12.30.50	Total cavopulmonary connection (TCPC),
Completion of total cavopulmonary connection (TCPC) using transcatheter inferior to superior caval vein covered stent,	to 1650	12.30.60	12.30.60	Completion of total cavopulmonary connection (TCPC) using transcatheter inferior to superior caval vein covered stent,
Completion of total cavopulmonary connection (TCPC): hepatic veins to pulmonary artery via extracardiac conduit,	to 1650	12.30.63	12.30.50	Total cavopulmonary connection (TCPC),
Take down of total cavopulmonary connection (TCPC),	to 1000	12.30.56	12.30.56	Take down of total cavopulmonary connection (TCPC),
Exclusion of hepatic venous return from total cavopulmonary connection,	to 1000	12.70.05	12.00.30	Systemic vein procedure,
Hepatic venous return directed to left pulmonary artery,	to 1000	12.70.03	12.00.30	Systemic vein procedure,
Hepatic venous return directed to right pulmonary artery,	to 1000	12.70.04	12.00.30	Systemic vein procedure,
Fenestration procedures for Fontan-type connections	to 1233	not relevant		

1233 Fenestration procedures for Fontan-type connections

Fenestration of Fontan type connection,	to 1685	12.30.27	12.30.27	Fenestration of Fontan type connection,
Fenestration of Fontan type connection: surgical,	to 1685	12.30.44	12.30.27	Fenestration of Fontan type connection,
Fenestration of Fontan type connection: transluminal,	to 1685	12.30.45	12.01.47	Transluminal fenestration of atrial septum-tunnel,
Fenestration of Fontan type connection: transluminal with sient,	to 1685	12.30.46	12.01.47	Transluminal fenestration of atrial septum-tunnel,
Fontan type connection without fenestration,	to 1685	12.30.28	12.30.28	Fontan-type connection without fenestration,
Transluminal fenestration of atrial septum-tunnel,	to 1000	12.01.47	12.01.47	Transluminal fenestration of atrial septum-tunnel,
Transluminal fenestration of atrial septum-tunnel with stent,	to 1650	12.01.48	12.01.47	Transluminal fenestration of atrial septum-tunnel,
Atrial fenestration enlargement,	to 1630	12.30.47	12.01.90	Interatrial communication creation-enlargement,
Transluminal sient implantation to fenestration of Fontan type connection,	to 1685	12.30.61	12.01.47	Transluminal fenestration of atrial septum-tunnel,
Transluminal occlusion of Fontan type connection fenestration,	to 1685	12.30.62	12.30.21	Right atrial septum-tunnel fenestration closure with transluminal device,
Right atrial septum-tunnel fenestration closure with transluminal device,	to 1660	12.30.21	12.30.21	Right atrial septum-tunnel fenestration closure with transluminal device,
Construction of adjustable interatrial communication (Laks),	to 1685	12.30.22	12.30.27	Fenestration of Fontan type connection,
Closure of adjustable interatrial communication,	to 1000	12.30.23	12.01.00	Interatrial communication closure,
Closure or reduction of fenestration for Fontan type connections	to 1234	not relevant		

1234 Closure or reduction of fenestration for Fontan type connections

Fontan type atrial fenestration closure,	to 1685	12.30.67	12.01.00	Interatrial communication closure,
Fontan type atrial fenestration closure: surgical,	to 1685	12.30.68	12.01.00	Interatrial communication closure,

	Reduction of interatrial fenestration for Fontan type connection,	to 1685	12.30.79	12.01.08	Interatrial communication closure: partial,
	Reduction of interatrial fenestration for Fontan type connection: surgical,	to 1685	12.30.69	12.01.08	Interatrial communication closure: partial,
	Reduction of interatrial fenestration for Fontan type connection: transluminal,	to 1660	12.30.70	12.01.08	Interatrial communication closure: partial,
	Reduction of interatrial fenestration for Fontan type connection: transluminal with device,	to 1660	12.30.71	12.01.08	Interatrial communication closure: partial,
	Reduction of interatrial fenestration for Fontan type connection: crimping of stent with snare,	to 1685	12.30.80	12.01.08	Interatrial communication closure: partial,
	Closure of adjustable interatrial communication,	to 1000	12.30.23	12.01.00	Interatrial communication closure,
1235	Additional procedures at Fontan or TCPC operation				
	Atrial septal defect (ASD) closure	to 1023	not relevant		
	Ventricular septal defect (VSD) closure	to 1100	not relevant		
	Anomalous pulmonary venous connection repair	to 1007	not relevant		
	Atrioventricular valvar repair-replacement	to 1028	not relevant		
	Pulmonary arterial reconstruction	to 1130	not relevant		
	Interatrial communication (ASD) enlargement: surgical,	to 1690	12.30.24	12.01.43	Atrial septectomy,
	Atrial septation procedure,	to 1608	12.01.22	12.01.22	Atrial septation procedure,
	Insertion of valve in superior caval vein (SVC),	to 1619	12.30.18	12.00.39	Superior caval vein (SVC) procedure,
	Insertion of valve in inferior caval vein (IVC),	to 1619	12.30.19	12.00.42	Inferior caval vein (IVC) procedure,
	Ventricular septal defect (VSD) enlargement,	to 1101	12.08.06	12.08.06	Ventricular septal defect (VSD) enlargement,
	Right ventricular outflow tract muscle resection-myotomy,	to 1096	12.06.01	12.06.41	Right ventricular outflow tract obstruction relief,
	Damus-Kaye-Stansel type procedure: pulmonary trunk to aorta end/side anastomosis,	to 1242	12.09.03	12.09.03	Damus-Kaye-Stansel type procedure: pulmonary trunk to aorta end/side anastomosis,
	Additional procedure at Fontan type operation,	to 1000	12.30.29	12.32.21	Cardiac procedure,
1237	Hypoplastic left heart procedure (including Norwood)				
	Hypoplastic left heart syndrome procedure,	to 1242	12.10.20	12.32.21	Cardiac procedure,
	Norwood type procedure,	to 1242	12.10.00	12.10.00	Norwood type procedure,
	Norwood type procedure: neo-aortic construction using patch,	to 1242	12.10.01	12.10.00	Norwood type procedure,
	Norwood type procedure: neo-aortic construction using patch to entire undersurface of arch,	to 1242	12.10.11	12.10.00	Norwood type procedure,
	Norwood type procedure: neo-aortic construction with posterior direct arch anastomosis & anterior augmentation patch,	to 1242	12.10.12	12.10.00	Norwood type procedure,
	Norwood type procedure: neo-aortic construction with interposition conduit between pulmonary trunk + aortic arch,	to 1630	12.10.19	12.10.00	Norwood type procedure,
	Norwood type procedure: neo-aortic construction with direct anastomosis & native tissue only,	to 1242	12.10.06	12.10.00	Norwood type procedure,
	Hypoplastic left heart biventricular repair,	to 1238	not relevant		
	Initial HLH procedure,	to 1242	12.10.03	12.10.00	Norwood type procedure,
	Hypoplastic left heart syndrome hybrid approach (transcatheter & surgery),	to 1000	12.20.21	12.20.21	Hypoplastic left heart syndrome hybrid approach (transcatheter & surgery),
	Hypoplastic left heart syndrome hybrid approach (transcatheter & surgery): stage 1,	to 1000	12.20.20	12.20.20	Hypoplastic left heart syndrome hybrid approach (transcatheter & surgery): stage 1,
	Hypoplastic left heart syndrome hybrid approach (transcatheter & surgery) 'stage 2': aortopulmonary amalgamation + superior cavopulmonary anastomosis(es) + debanding of pulmonary arteries,	to 1000	12.20.22	12.20.22	Hypoplastic left heart syndrome hybrid approach (transcatheter & surgery) 'stage 2': aortopulmonary amalgamation + superior cavopulmonary anastomosis(es) + debanding of pulmonary arteries,
	Hypoplastic left heart syndrome hybrid approach (transcatheter & surgery) 'stage 2': aortopulmonary amalgamation + superior cavopulmonary anastomosis(es) + debanding of pulmonary arteries + arch repair,	to 1242	12.20.23	12.20.23	Hypoplastic left heart syndrome hybrid approach (transcatheter & surgery) 'stage 2': aortopulmonary amalgamation + superior cavopulmonary anastomosis(es) + debanding of pulmonary arteries + arch repair,
	Application of bilateral pulmonary arterial bands + transcatheter placement of stent in arterial duct,	to 1645	12.10.04	12.10.04	Application of bilateral pulmonary arterial bands + transcatheter placement of stent in arterial duct,
	Shunts, conduits (Sano) and other additional procedures for HLH	to 1240	not relevant		
	Details of Norwood type procedure neo-aortic reconstruction - qualifiers	to 1242	not relevant		
	Transplantation of heart	to 1350	not relevant		
1238	Hypoplastic left heart biventricular repair				
	Hypoplastic left heart biventricular repair,	to 1242	12.10.05	12.10.05	Hypoplastic left heart biventricular repair,
	Hypoplastic left heart biventricular repair (without prior Norwood type procedure),	to 1242	12.10.21	12.10.05	Hypoplastic left heart biventricular repair,
	Hypoplastic left heart biventricular repair (without prior Norwood type procedure): left ventricle-neo-aorta tunnel + right ventricle to pulmonary artery conduit,	to 1242	12.10.08	12.10.05	Hypoplastic left heart biventricular repair,
	Left ventricle-neo-aorta tunnel + right ventricle to pulmonary artery conduit + arch reconstruction (Rastelli-Norwood) (Yasu),	to 1242	12.10.10	12.10.05	Hypoplastic left heart biventricular repair,
	Hypoplastic left heart biventricular repair: left ventricle-neo-aorta tunnel + direct right ventricle to pulmonary trunk anastomosis + arch reconstruction (REV-Norwood),	to 1242	12.10.22	12.10.05	Hypoplastic left heart biventricular repair,
	Hypoplastic left heart biventricular repair: left ventricle-neo-aorta tunnel + direct right ventricle to pulmonary trunk anastomosis + arch reconstruction (with Lecompte manoeuvre) (REV-Norwood),	to 1242	12.10.23	12.10.05	Hypoplastic left heart biventricular repair,
	Hypoplastic left heart biventricular repair: left ventricle-neo-aorta tunnel + direct right ventricle to pulmonary trunk anastomosis + arch reconstruction (without Lecompte manoeuvre) (REV-Norwood),	to 1242	12.10.24	12.10.05	Hypoplastic left heart biventricular repair,
	Hypoplastic left heart biventricular repair after Norwood type procedure,	to 1630	12.10.16	12.10.05	Hypoplastic left heart biventricular repair,
	Hypoplastic left heart biventricular repair after Norwood type procedure: left ventricle-neo-aorta tunnel + right ventricle to pulmonary artery conduit,	to 1242	12.10.17	12.10.05	Hypoplastic left heart biventricular repair,
	Hypoplastic left heart biventricular repair after Norwood type procedure: left ventricle-neo-aorta tunnel + right ventricle to pulmonary artery conduit + arch reconstruction,	to 1242	12.10.18	12.10.05	Hypoplastic left heart biventricular repair,
1240	Shunts, conduits (Sano) and other additional procedures for hypoplastic left heart				
	Atrial septectomy,	to 1000	12.01.43	12.01.43	Atrial septectomy,
	Atrial septectomy via atrial purse string,	to 1000	12.01.91	12.01.43	Atrial septectomy,
	Atrial septectomy via separate atriotomy,	to 1000	12.01.92	12.01.43	Atrial septectomy,
	Interatrial communication (ASD) enlargement: surgical,	to 1690	12.30.24	12.01.43	Atrial septectomy,
	Interatrial communication (ASD) enlargement via atrial purse string,	to 1690	12.01.93	12.01.43	Atrial septectomy,
	Interatrial communication (ASD) enlargement via separate atriotomy,	to 1690	12.01.94	12.01.43	Atrial septectomy,
	Modified right Blalock interposition shunt,	to 1630	12.31.03	12.31.03	Modified right Blalock interposition shunt,
	Modified left Blalock interposition shunt,	to 1630	12.31.04	12.31.04	Modified left Blalock interposition shunt,
	Central systemic-to-pulmonary arterial interposition shunt,	to 1630	12.31.06	12.31.06	Central systemic-to-pulmonary arterial interposition shunt,
	Right ventricle to pulmonary artery valveless conduit construction (Japanese modification: "Sano"),	to 1630	12.06.43	12.06.43	Right ventricle to pulmonary artery valveless conduit construction (Japanese modification: "Sano"),
	Right ventricle to pulmonary artery valveless conduit construction (Japanese modification: "Sano"): left of aorta,	to 1630	12.36.30	12.06.43	Right ventricle to pulmonary artery valveless conduit construction (Japanese modification: "Sano"),
	Right ventricle to pulmonary artery valveless conduit construction (Japanese modification: "Sano"): right of aorta,	to 1630	12.36.31	12.06.43	Right ventricle to pulmonary artery valveless conduit construction (Japanese modification: "Sano"),
	Right ventricle to pulmonary artery valved conduit construction,	to 1630	12.06.50	12.36.01	Right ventricle to pulmonary artery valved conduit construction,
	Creation of neo-aorta to pulmonary artery anastomosis + intervening fenestrated baffle,	to 1608	12.10.13	12.31.30	Systemic-to-pulmonary arterial shunt procedure,
	Stent placement in arterial duct (PDA),	to 1650	12.10.14	12.10.14	Stent placement in arterial duct (PDA),
	Left ventricular endocardiotomy,	to 1000	12.07.27	12.07.26	Left ventricular procedure,
	Clip applied to cardiac conduit,	to 2240	12.36.44	12.36.40	Procedure involving constructed cardiac conduit-shunt,
	Caval vein to pulmonary arterial anastomoses including Glenn procedures	to 1257	not relevant		
	Other shunt procedure	to 1250	not relevant		
	Specific obstructed aortic arch procedures	to 1190	not relevant		
1242 @	Details of Norwood type procedure neo-aortic reconstruction - qualifiers				
	- with isthmus excision,	to 1240	Q5.10.51	not relevant	
	- without isthmus excision,	to 1240	Q5.10.52	not relevant	
	- with native ascending aorta incision to near level of transected proximal pulmonary trunk,	to 1240	Q5.10.53	not relevant	
	- using ascending aortic transection,	to 1240	Q5.10.54	not relevant	
	- using ascending aorta + pulmonary trunk transection & side to side (double barrel) anastomosis,	to 1240	Q5.10.55	not relevant	
	- using ascending aortic transection & proximal aortic implantation (end to side),	to 1240	Q5.10.56	not relevant	
	- without ascending aorta incision,	to 1240	Q5.10.57	not relevant	
	no entry	to 1240	not relevant		

	End of branch _____				
1250	Conduit and shunt construction procedures				
	Systemic-to-pulmonary arterial shunt procedures	to 1251	not relevant		
	One and one half (1.5) ventricle repairs	to 1255	not relevant		
	Caval vein to pulmonary arterial anastomoses - Glenn	to 1257	not relevant		
	Conduit construction procedures	to 1260	not relevant		
1251	Systemic-to-pulmonary arterial shunt procedures				
	Systemic-to-pulmonary arterial shunt procedure,	to 1000	12.31.30	12.31.30	Systemic-to-pulmonary arterial shunt procedure,
	Classical Blalock (subclavian artery-pulmonary artery) anastomosis,	to 1000	12.31.48	12.31.30	Systemic-to-pulmonary arterial shunt procedure,
	Classical right Blalock (right subclavian artery-right pulmonary artery) anastomosis,	to 1000	12.31.01	12.31.30	Systemic-to-pulmonary arterial shunt procedure,
	Classical left Blalock (left subclavian artery-left pulmonary artery) anastomosis,	to 1000	12.31.02	12.31.30	Systemic-to-pulmonary arterial shunt procedure,
	Modified Blalock interposition shunt,	to 1630	12.31.46	12.31.46	Modified Blalock interposition shunt,
	Modified right Blalock interposition shunt,	to 1630	12.31.03	12.31.03	Modified right Blalock interposition shunt,
	Modified left Blalock interposition shunt,	to 1630	12.31.04	12.31.04	Modified left Blalock interposition shunt,
	Waterston (ascending aorta-right pulmonary artery) anastomosis,	to 1000	12.31.05	12.31.05	Waterston (ascending aorta-right pulmonary artery) anastomosis,
	Ascending aorta-right pulmonary artery interposition shunt,	to 1630	12.31.23	12.31.06	Central systemic-to-pulmonary arterial interposition shunt,
	Central aorto-pulmonary anastomosis,	to 1000	12.31.20	12.31.30	Systemic-to-pulmonary arterial shunt procedure,
	Central systemic-to-pulmonary arterial interposition shunt,	to 1630	12.31.06	12.31.06	Central systemic-to-pulmonary arterial interposition shunt,
	Central systemic-to-pulmonary trunk interposition shunt,	to 1630	12.31.49	12.31.06	Central systemic-to-pulmonary arterial interposition shunt,
	Central systemic to right pulmonary artery interposition shunt,	to 1630	12.31.50	12.31.06	Central systemic-to-pulmonary arterial interposition shunt,
	Central systemic to left pulmonary artery interposition shunt,	to 1630	12.31.51	12.31.06	Central systemic-to-pulmonary arterial interposition shunt,
	Descending aorta-left pulmonary artery (Pot's) anastomosis,	to 1000	12.31.07	12.31.30	Systemic-to-pulmonary arterial shunt procedure,
	Descending aorta-left pulmonary arterial interposition shunt,	to 1630	12.31.24	12.31.06	Central systemic-to-pulmonary arterial interposition shunt,
	Disconnection of pulmonary trunk & reanastomosis of distal end to ascending aorta (Mee),	to 1000	12.31.21	12.31.30	Systemic-to-pulmonary arterial shunt procedure,
	Systemic-to-pulmonary arterial interposition shunt using right internal mammary artery,	to 1000	12.31.28	12.31.06	Central systemic-to-pulmonary arterial interposition shunt,
	Systemic-to-pulmonary arterial interposition shunt using left internal mammary artery,	to 1000	12.31.29	12.31.06	Central systemic-to-pulmonary arterial interposition shunt,
	Systemic-to-pulmonary arterial interposition shunt,	to 1630	12.31.12	12.31.06	Central systemic-to-pulmonary arterial interposition shunt,
	Stent placement in arterial duct (PDA),	to 1650	12.10.14	12.10.14	Stent placement in arterial duct (PDA),
	Formalin infiltration of arterial duct (PDA),	to 1000	12.24.08	12.24.00	Arterial duct-ligament procedure,

Procedures involving systemic-to-pulmonary arterial shunts,	to 1252	not relevant		
Procedures to close systemic-to-pulmonary arterial shunts,	to 1253	not relevant		
1252 Procedures involving systemic-to-pulmonary arterial shunts				
Transluminal-transcatheter procedures involving constructed cardiac conduit-shunt	to 1465	not relevant		
Procedure involving constructed cardiac conduit-shunt,	to 2240	12.36.40	12.36.40	Procedure involving constructed cardiac conduit-shunt,
Application of band to systemic-to-pulmonary arterial shunt,	to 1645	12.31.16	12.36.40	Procedure involving constructed cardiac conduit-shunt,
Open adjustment of systemic-to-pulmonary arterial shunt band,	to 1000	12.31.25	12.36.40	Procedure involving constructed cardiac conduit-shunt,
Removal of band from systemic-to-pulmonary arterial shunt,	to 1000	12.31.17	12.36.40	Procedure involving constructed cardiac conduit-shunt,
Shunt revision: decrease size,	to 1000	12.31.52	12.36.40	Procedure involving constructed cardiac conduit-shunt,
Shunt revision: decrease size by wrapping procedure,	to 1000	12.31.53	12.36.40	Procedure involving constructed cardiac conduit-shunt,
Shunt revision: decrease size by plication,	to 1000	12.31.54	12.36.40	Procedure involving constructed cardiac conduit-shunt,
Shunt revision: decrease size by clip,	to 1000	12.31.55	12.36.40	Procedure involving constructed cardiac conduit-shunt,
Removal of thrombus from systemic-to-pulmonary arterial shunt,	to 1000	12.31.56	12.36.40	Procedure involving constructed cardiac conduit-shunt,
Exploration of systemic-to-pulmonary arterial shunt,	to 1000	12.31.57	12.36.40	Procedure involving constructed cardiac conduit-shunt,
Evacuation of shunt related seroma,	to 1000	12.31.58	12.36.40	Procedure involving constructed cardiac conduit-shunt,
Shunt revision: proximal anastomosis,	to 1000	12.31.59	12.36.40	Procedure involving constructed cardiac conduit-shunt,
Shunt revision: distal anastomosis,	to 1000	12.31.60	12.36.40	Procedure involving constructed cardiac conduit-shunt,
Resection of systemic-to-pulmonary arterial shunt related aneurysm,	to 1000	12.31.18	12.36.40	Procedure involving constructed cardiac conduit-shunt,
Removal of systemic-to-pulmonary arterial shunt,	to 1000	12.31.22	12.36.40	Procedure involving constructed cardiac conduit-shunt,
Replacement of systemic-to-pulmonary arterial shunt,	to 1250	12.31.61	12.31.30	Systemic-to-pulmonary arterial shunt procedure,
1253 Procedures to close systemic-to-pulmonary arterial shunts				
Closure of systemic-to-pulmonary arterial shunt,	to 1000	12.31.31	12.31.31	Closure of systemic-to-pulmonary arterial shunt,
Closure of systemic-to-pulmonary arterial shunt by ligation,	to 1604	12.31.32	12.31.31	Closure of systemic-to-pulmonary arterial shunt,
Closure of systemic-to-pulmonary arterial shunt by division,	to 1604	12.31.33	12.31.31	Closure of systemic-to-pulmonary arterial shunt,
Takedown of Waterston anastomosis,	to 1130	12.31.35	12.31.31	Closure of systemic-to-pulmonary arterial shunt,
Takedown of Pott's anastomosis,	to 1130	12.31.36	12.31.31	Closure of systemic-to-pulmonary arterial shunt,
End of branch				
1255 One and one half (1.5) ventricle repairs				
One and one half (1.5) ventricle repair,	to 1257	12.06.49	12.06.19	1.5 ventricle repair: superior cavopulmonary (Glenn) anastomosis + right ventricular outflow tract reconstruction,
1.5 ventricle repair: superior cavopulmonary (Glenn) anastomosis without outflow tract reconstruction,	to 1257	12.06.80	12.06.19	1.5 ventricle repair: superior cavopulmonary (Glenn) anastomosis + right ventricular outflow tract reconstruction,
1.5 ventricle repair: superior cavopulmonary (Glenn) anastomosis + right ventricular outflow tract reconstruction,	to 1257	12.06.19	12.06.19	1.5 ventricle repair: superior cavopulmonary (Glenn) anastomosis + right ventricular outflow tract reconstruction,
1.5 ventricle repair: superior cavopulmonary (Glenn) anastomosis + left ventricular outflow tract reconstruction,	to 1257	12.06.81	12.06.19	1.5 ventricle repair: superior cavopulmonary (Glenn) anastomosis + right ventricular outflow tract reconstruction,
Banding of pulmonary artery procedures	to 1131	not relevant		
Atrial septal procedures	to 1020	not relevant		
End of branch				
1257 Caval vein to pulmonary artery anastomoses - Glenn				
Caval vein to pulmonary artery anastomosis,	to 1258	12.31.70	12.32.21	Cardiac procedure,
Superior caval vein to pulmonary artery anastomosis,	to 1258	12.31.72	12.31.72	Superior caval vein to pulmonary artery anastomosis,
Unidirectional superior cavopulmonary (Glenn) anastomosis,	to 1000	12.31.45	12.31.45	Unidirectional superior cavopulmonary (Glenn) anastomosis,
Right unidirectional superior cavopulmonary (Glenn) anastomosis,	to 1000	12.31.08	12.31.45	Unidirectional superior cavopulmonary (Glenn) anastomosis,
Left unidirectional superior cavopulmonary (Glenn) anastomosis,	to 1000	12.31.13	12.31.45	Unidirectional superior cavopulmonary (Glenn) anastomosis,
Bidirectional superior cavopulmonary (Glenn) anastomosis,	to 1258	12.31.11	12.31.11	Bidirectional superior cavopulmonary (Glenn) anastomosis,
Bidirectional right superior cavopulmonary (Glenn) anastomosis,	to 1258	12.31.38	12.31.11	Bidirectional superior cavopulmonary (Glenn) anastomosis,
Bidirectional left superior cavopulmonary (Glenn) anastomosis,	to 1258	12.31.39	12.31.11	Bidirectional superior cavopulmonary (Glenn) anastomosis,
Bidirectional superior cavopulmonary anastomosis with interrupted inferior caval vein (IVC) (Kawahima),	to 1000	12.30.59	12.31.11	Bidirectional superior cavopulmonary (Glenn) anastomosis,
Bilateral bidirectional superior cavopulmonary (Glenn) anastomoses,	to 1258	12.31.44	12.31.44	Bilateral bidirectional superior cavopulmonary (Glenn) anastomoses,
Bilateral superior cavopulmonary (Glenn) anastomoses,	to 1258	12.31.73	12.31.44	Bilateral bidirectional superior cavopulmonary (Glenn) anastomoses,
Bidirectional bidirectional superior cavopulmonary anastomoses with interrupted inferior caval vein (IVC) (Kawahima),	to 1000	12.30.04	12.31.44	Bilateral bidirectional superior cavopulmonary (Glenn) anastomoses,
Bidirectional inferior cavopulmonary anastomosis,	to 1258	12.31.47	12.32.21	Cardiac procedure,
Hemi-Fontan procedure,	to 1608	12.31.15	12.31.15	Hemi-Fontan procedure,
Hemi-Fontan procedure with right atrial-superior caval vein (SVC) junction fenestrated patch,	to 1608	12.31.71	12.31.15	Hemi-Fontan procedure,
Takedown of Glenn,	to 1130	12.31.42	12.31.42	Takedown of Glenn,
Takedown of right Glenn,	to 1130	12.31.40	12.31.42	Takedown of Glenn,
Takedown of left Glenn,	to 1130	12.31.41	12.31.42	Takedown of Glenn,
1258 @ Caval vein to pulmonary artery anastomoses (Glenn) qualifiers				
- leaving additional source of pulmonary blood flow,	to 1000	Q5.31.01	not relevant	
- leaving additional source of pulmonary blood flow: pulmonary trunk forward flow,	to 1000	Q5.31.02	not relevant	
- leaving additional source of pulmonary blood flow: systemic-to-pulmonary arterial shunt,	to 1000	Q5.31.03	not relevant	
- leaving additional source of pulmonary blood flow: right ventricle to pulmonary arterial conduit,	to 1000	Q5.31.04	not relevant	
- without leaving additional source of pulmonary blood flow,	to 1000	Q5.31.05	not relevant	
no entry	to 1000	not relevant		
1260 Conduit construction procedures				
Procedures involving constructed conduits,	to 1261	not relevant		
Conduit construction procedure,	to 1630	12.36.00	12.36.00	Conduit construction procedure,
Right atrium to right ventricle conduit construction,	to 1630	12.30.08	12.36.00	Conduit construction procedure,
Right atrium to pulmonary trunk conduit construction,	to 1630	12.36.20	12.36.00	Conduit construction procedure,
Right ventricle to pulmonary arterial tree conduit construction,	to 1630	12.36.01	12.36.01	Right ventricle to pulmonary arterial tree conduit construction,
Right ventricle to pulmonary trunk conduit construction,	to 1630	12.06.11	12.36.01	Right ventricle to pulmonary arterial tree conduit construction,
Right ventricle to right pulmonary artery conduit construction,	to 1630	12.36.21	12.36.01	Right ventricle to pulmonary arterial tree conduit construction,
Right ventricle to left pulmonary artery conduit construction,	to 1630	12.36.22	12.36.01	Right ventricle to pulmonary arterial tree conduit construction,
Right ventricle to right + left pulmonary artery conduit construction,	to 1630	12.36.18	12.36.01	Right ventricle to pulmonary arterial tree conduit construction,
Right ventricle to pulmonary artery valveless conduit construction,	to 1630	12.06.12	12.06.41	Right ventricular outflow tract obstruction relief,
Right ventricle to pulmonary artery valveless conduit construction (Japanese modification: "Sano"),	to 1630	12.06.43	12.06.43	Right ventricle to pulmonary artery valveless conduit construction (Japanese modification: "Sano"),
Right ventricle to pulmonary artery valveless conduit construction (Japanese modification: "Sano"): left of aorta,	to 1630	12.36.30	12.06.43	Right ventricle to pulmonary artery valveless conduit construction (Japanese modification: "Sano"),
Right ventricle to pulmonary artery valveless conduit construction (Japanese modification: "Sano"): right of aorta,	to 1630	12.36.31	12.06.43	Right ventricle to pulmonary artery valveless conduit construction (Japanese modification: "Sano"),
Right ventricle to pulmonary artery valved conduit construction,	to 1630	12.06.50	12.36.01	Right ventricle to pulmonary arterial tree conduit construction,
Right ventricle to aorta conduit construction,	to 1630	12.36.03	12.36.35	Ventricle to aorta conduit construction,
Pulmonary trunk to left pulmonary artery conduit construction,	to 1630	12.36.06	12.14.20	Pulmonary arterioplasty/ reconstruction,
Pulmonary trunk to right pulmonary artery conduit construction,	to 1630	12.36.07	12.14.20	Pulmonary arterioplasty/ reconstruction,
Pulmonary trunk to right + left pulmonary artery conduit construction,	to 1630	12.36.17	12.14.20	Pulmonary arterioplasty/ reconstruction,
Right pulmonary artery to left pulmonary artery conduit construction,	to 1630	12.36.08	12.14.20	Pulmonary arterioplasty/ reconstruction,
Left atrium to left ventricle conduit construction,	to 1630	12.36.19	12.36.00	Conduit construction procedure,
Left ventricle to pulmonary artery conduit construction,	to 1630	12.36.02	12.36.02	Left ventricle to pulmonary artery conduit construction,
Left ventricular apex to aorta conduit construction,	to 1630	12.07.18	12.36.35	Ventricle to aorta conduit construction,
Left ventricle to ascending aorta conduit construction,	to 1630	12.36.04	12.36.35	Ventricle to aorta conduit construction,
Left ventricular apex to descending aorta conduit construction,	to 1630	12.07.06	12.36.35	Ventricle to aorta conduit construction,
Ventricle to aorta conduit construction,	to 1630	12.36.35	12.36.35	Ventricle to aorta conduit construction,
1261 Procedures involving constructed cardiac conduits				
Transcatheter/ transluminal procedures involving constructed cardiac conduits	to 1465	not relevant		
Procedure involving constructed cardiac conduit-shunt,	to 2240	12.36.40	12.36.40	Procedure involving constructed cardiac conduit-shunt,
Procedure involving constructed cardiac conduit,	to 2240	12.36.29	12.36.40	Procedure involving constructed cardiac conduit-shunt,
Cardiac conduit repair,	to 2240	12.36.24	12.36.40	Procedure involving constructed cardiac conduit-shunt,
Replacement of cardiac conduit,	to 2240	12.36.10	12.36.10	Replacement of cardiac conduit,
Patch enlargement of cardiac conduit,	to 2240	12.36.11	12.36.40	Procedure involving constructed cardiac conduit-shunt,
Patch enlargement of proximal cardiac conduit anastomosis,	to 2240	12.36.12	12.36.40	Procedure involving constructed cardiac conduit-shunt,
Patch enlargement of distal cardiac conduit anastomosis,	to 2240	12.36.13	12.36.40	Procedure involving constructed cardiac conduit-shunt,
Resection of cardiac conduit aneurysm,	to 2240	12.36.15	12.36.40	Procedure involving constructed cardiac conduit-shunt,
Removal of cardiac conduit,	to 2240	12.36.16	12.36.40	Procedure involving constructed cardiac conduit-shunt,
Cardiac conduit ligation & takedown,	to 2240	12.36.42	12.36.40	Procedure involving constructed cardiac conduit-shunt,
Right ventricle to pulmonary arterial conduit ligation & takedown,	to 1000	12.36.43	12.36.40	Procedure involving constructed cardiac conduit-shunt,
Banding of constructed cardiac conduit,	to 2240	12.36.41	12.36.40	Procedure involving constructed cardiac conduit-shunt,
Clip applied to cardiac conduit,	to 2240	12.36.44	12.36.40	Procedure involving constructed cardiac conduit-shunt,
End of branch				
1260 Coronary arterial procedures				
Procedures for anomalous origin and aberrant course of coronary artery	to 1281	not relevant		
Procedures for coronary arterial fistulas,	to 1285	not relevant		
Transluminal coronary arterial procedures	to 1470	not relevant		
Coronary arterial bypass grafting (CABG) procedures	to 1287	not relevant		
Reimplantation of coronary artery procedures	to 1282	not relevant		
Coronary arterial muscle bridge procedures	to 1283	not relevant		
Coronary arterial anomaly procedure,	to 1292	12.24.79	12.23.09	Coronary arterial procedure,
Right coronary arterial ligation,	to 1604	12.23.01	12.23.09	Coronary arterial procedure,
Left coronary arterial ligation,	to 1000	12.23.04	12.23.09	Coronary arterial procedure,
Circumflex coronary arterial ligation,	to 1000	12.23.82	12.23.09	Coronary arterial procedure,
Coronary arterial stenosis repair,	to 1292	12.23.85	12.23.09	Coronary arterial procedure,
Coronary arterial stenosis repair: endarterectomy,	to 1292	12.24.74	12.23.09	Coronary arterial procedure,

Coronary arterial stenosis repair: coronary arterial bypass graft (CABG) procedure,	to 1287	12.24.75	12.23.09	Coronary arterial procedure,
Coronary arterial stenosis repair: endarterectomy & coronary arterial bypass graft (CABG) procedure,	to 1287	12.24.76	12.23.09	Coronary arterial procedure,
Coronary endarterectomy,	to 1292	12.23.21	12.23.09	Coronary arterial procedure,
Coronary thromboendarterectomy,	to 1292	12.23.86	12.23.09	Coronary arterial procedure,
Open coronary arterial balloon angioplasty,	to 1292	12.23.22	12.23.09	Coronary arterial procedure,
Coronary arterioplasty,	to 1292	12.23.87	12.23.09	Coronary arterial procedure,
Coronary embolectomy,	to 1292	12.19.10	12.23.09	Coronary arterial procedure,
Exploration of coronary artery,	to 1292	12.23.24	12.23.09	Coronary arterial procedure,
Coronary arterial aneurysm repair,	to 1292	12.23.15	12.23.09	Coronary arterial procedure,
Coronary arterial aneurysm repair by aneurysmorrhaphy,	to 1292	12.23.89	12.23.09	Coronary arterial procedure,
Coronary arterial aneurysm repair by aneurysmorrhaphy & thromboembolectomy,	to 1292	12.24.78	12.23.09	Coronary arterial procedure,
Coronary arterial laceration repair,	to 1292	12.24.70	12.23.09	Coronary arterial procedure,
Coronary arterial perforation repair,	to 1292	12.24.71	12.23.09	Coronary arterial procedure,
Coronary arterial stent removal,	to 1292	12.24.72	12.23.09	Coronary arterial procedure,
Coronary ostial stenosis relief,	to 1292	12.23.25	12.23.09	Coronary arterial procedure,
Coronary ostial stenosis relief: ridge resection,	to 1292	12.23.26	12.23.09	Coronary arterial procedure,
Congenital atresia of left main coronary artery repair,	to 1000	12.23.90	12.23.09	Coronary arterial procedure,
Congenital atresia of left main coronary artery repair: coronary arterial bypass graft (CABG) procedure,	to 1295	12.23.98	12.23.09	Coronary arterial procedure,
Congenital atresia of left main coronary artery repair: proximal arterioplasty,	to 1608	12.23.99	12.23.09	Coronary arterial procedure,
Coronary arterial compression relief,	to 1292	12.23.91	12.23.09	Coronary arterial procedure,
Coronary arterial procedure,	to 1292	12.23.09	12.23.09	Coronary arterial procedure,
1281 Procedures for anomalous origin and aberrant course of coronary artery				
Reimplantation of coronary artery procedures	to 1282	not relevant		
Anomalous coronary artery (eg ALCAPA) repair,	to 1000	12.23.00	12.23.00	Anomalous coronary artery (eg ALCAPA) repair,
Anomalous aortic origin of coronary artery repair,	to 1292	12.23.80	12.23.80	Anomalous aortic origin of coronary artery repair,
Aberrant course of coronary artery procedure,	to 1292	12.24.80	12.23.80	Anomalous aortic origin of coronary artery repair,
Anomalous aortic origin/course of coronary artery repair: unroofing,	to 1292	12.23.93	12.23.80	Anomalous aortic origin of coronary artery repair,
Anomalous aortic origin/course of coronary artery repair: unroofing with commissural detachment,	to 1292	12.23.94	12.23.80	Anomalous aortic origin of coronary artery repair,
Anomalous aortic origin/course of coronary artery repair: unroofing without commissural detachment,	to 1292	12.23.95	12.23.80	Anomalous aortic origin of coronary artery repair,
Anomalous aortic origin/course of coronary artery repair: fenestration,	to 1292	12.23.96	12.23.80	Anomalous aortic origin of coronary artery repair,
Anomalous aortic origin/course of coronary artery repair: pulmonary artery translocation,	to 1292	12.23.97	12.23.80	Anomalous aortic origin of coronary artery repair,
Anomalous aortic origin/course of coronary artery repair: pulmonary artery translocation with Lecompte manoeuvre,	to 1292	12.24.81	12.23.80	Anomalous aortic origin of coronary artery repair,
Anomalous aortic origin/course of coronary artery repair: pulmonary artery translocation without Lecompte manoeuvre,	to 1292	12.24.82	12.23.80	Anomalous aortic origin of coronary artery repair,
Anomalous aortic origin/course of coronary artery repair: reversed pulmonary trunk flap,	to 1292	12.24.83	12.23.80	Anomalous aortic origin of coronary artery repair,
Anomalous aortic origin/course of coronary artery repair: left atrial appendage flap,	to 1292	12.24.85	12.23.80	Anomalous aortic origin of coronary artery repair,
Anomalous left coronary artery from pulmonary artery (ALCAPA) repair,	to 1000	12.23.27	12.23.00	Anomalous coronary artery (eg ALCAPA) repair,
Anomalous right coronary artery from pulmonary artery (ARCAPA) repair,	to 1000	12.23.28	12.23.00	Anomalous coronary artery (eg ALCAPA) repair,
Anomalous circumflex coronary artery from pulmonary artery repair,	to 1000	12.23.29	12.23.00	Anomalous coronary artery (eg ALCAPA) repair,
Aberrant coronary artery mobilisation,	to 1292	12.24.84	12.23.80	Anomalous aortic origin of coronary artery repair,
1282 Reimplantation of coronary artery procedures				
Reimplantation of coronary artery,	to 1292	12.23.81	12.23.09	Coronary arterial procedure,
Reimplantation of right coronary artery from pulmonary artery,	to 1000	12.24.77	12.23.00	Anomalous coronary artery (eg ALCAPA) repair,
Reimplantation of right coronary artery via intrapulmonary trunk tunnel,	to 1000	12.23.03	12.23.00	Anomalous coronary artery (eg ALCAPA) repair,
Reimplantation of right coronary artery by anastomosis to subclavian artery,	to 1000	12.23.92	12.23.00	Anomalous coronary artery (eg ALCAPA) repair,
Reimplantation of left coronary artery from pulmonary artery,	to 1000	12.23.05	12.23.00	Anomalous coronary artery (eg ALCAPA) repair,
Reimplantation of left coronary artery via intrapulmonary trunk tunnel (Takeuchi),	to 1000	12.23.06	12.23.00	Anomalous coronary artery (eg ALCAPA) repair,
Reimplantation of left coronary artery by anastomosis to subclavian artery,	to 1000	12.23.14	12.23.00	Anomalous coronary artery (eg ALCAPA) repair,
Reimplantation of circumflex coronary artery from pulmonary artery,	to 1604	12.23.83	12.23.00	Anomalous coronary artery (eg ALCAPA) repair,
Reimplantation of circumflex coronary artery via intrapulmonary trunk tunnel,	to 1000	12.23.84	12.23.00	Anomalous coronary artery (eg ALCAPA) repair,
Reimplantation of circumflex artery by anastomosis to subclavian artery,	to 1000	12.24.73	12.23.00	Anomalous coronary artery (eg ALCAPA) repair,
1283 Coronary arterial muscle bridge procedures				
Coronary arterial muscle bridge repair,	to 1292	12.23.88	12.23.09	Coronary arterial procedure,
Myotomy of coronary arterial muscle bridge (unroofing-debridging),	to 1292	12.23.23	12.23.09	Coronary arterial procedure,
Coronary arterial muscle bridge repair: coronary arterial bypass graft (CABG) procedure,	to 1287	12.19.11	12.23.09	Coronary arterial procedure,
Myotomy of coronary arterial muscle bridge (unroofing-debridging) with coronary arterial bypass graft (CABG) procedure,	to 1287	12.19.12	12.23.09	Coronary arterial procedure,
1285 Procedures for coronary arterial fistulas				
Coronary arterial fistula procedure,	to 1000	12.23.07	12.23.07	Coronary fistula procedure,
Division of coronary arterial fistula,	to 1604	12.23.10	12.23.07	Coronary fistula procedure,
Ligation of coronary arterial fistula,	to 1604	12.23.11	12.23.11	Ligation of coronary fistula,
Ligation of coronary arterial fistula with coronary arterial bypass graft (CABG) procedure,	to 1287	12.19.13	12.23.11	Ligation of coronary fistula,
Intraluminal repair of coronary arterial fistula,	to 1000	12.23.12	12.23.07	Coronary fistula procedure,
Coronary arterial fistula transluminal occlusion,	to 1660	12.23.13	12.23.13	Coronary arterial fistula transluminal occlusion,
1287 Coronary arterial bypass grafting (CABG) procedures				
Coronary arterial bypass graft (CABG) procedure,	to 1292	12.23.08	12.23.08	Coronary arterial bypass graft (CABG) procedure,
Coronary arterial bypass procedure off bypass (OPCAB),	to 1292	12.23.57	12.23.08	Coronary arterial bypass graft (CABG) procedure,
Coronary arterial bypass procedure: minimally invasive direct (MDCAB),	to 1292	12.23.58	12.23.08	Coronary arterial bypass graft (CABG) procedure,
Coronary arterial bypass procedure: totally endoscopic (TECAB),	to 1292	12.23.60	12.23.08	Coronary arterial bypass graft (CABG) procedure,
Coronary arterial bypass procedure: totally endoscopic (TECAB) with voice controlled robotic arm,	to 1292	12.23.61	12.23.08	Coronary arterial bypass graft (CABG) procedure,
Coronary arterial bypass graft x1,	to 1292	12.23.51	12.23.08	Coronary arterial bypass graft (CABG) procedure,
Coronary arterial bypass graft x2,	to 1292	12.23.52	12.23.08	Coronary arterial bypass graft (CABG) procedure,
Coronary arterial bypass graft x3,	to 1292	12.23.53	12.23.08	Coronary arterial bypass graft (CABG) procedure,
Coronary arterial bypass graft x4,	to 1292	12.23.54	12.23.08	Coronary arterial bypass graft (CABG) procedure,
Coronary arterial bypass graft x5,	to 1292	12.23.55	12.23.08	Coronary arterial bypass graft (CABG) procedure,
Coronary arterial bypass grafts more than 5,	to 1292	12.23.56	12.23.08	Coronary arterial bypass graft (CABG) procedure,
Coronary arterial bypass graft x6,	to 1292	12.23.62	12.23.08	Coronary arterial bypass graft (CABG) procedure,
Coronary arterial bypass graft x7,	to 1292	12.23.63	12.23.08	Coronary arterial bypass graft (CABG) procedure,
Coronary arterial bypass graft x8,	to 1292	12.23.64	12.23.08	Coronary arterial bypass graft (CABG) procedure,
Coronary arterial bypass graft x9,	to 1292	12.23.65	12.23.08	Coronary arterial bypass graft (CABG) procedure,
Arterial graft procurement procedure for CABG operation,	to 1635	12.23.71	12.22.00	Systemic arterial procedure,
Vein graft procurement procedure for CABG operation,	to 1635	12.23.72	12.00.30	Systemic vein procedure,
1292 @ Target coronary artery at procedure - qualifiers				
- left coronary artery,	to 1294	Q5.23.61	not relevant	
- left main stem coronary artery,	to 1294	Q5.23.62	not relevant	
- left anterior descending,	to 1294	Q5.23.63	not relevant	
- first diagonal branch,	to 1294	Q5.23.64	not relevant	
- second diagonal branch,	to 1294	Q5.23.65	not relevant	
- third diagonal branch,	to 1294	Q5.23.77	not relevant	
- left anterior descending septal perforator branch,	to 1294	Q5.23.66	not relevant	
- ramus intermedius branch,	to 1294	Q5.23.67	not relevant	
- left circumflex coronary artery,	to 1294	Q5.23.68	not relevant	
- first obtuse marginal branch,	to 1294	Q5.23.69	not relevant	
- second obtuse marginal branch,	to 1294	Q5.23.70	not relevant	
- third obtuse marginal branch,	to 1294	Q5.23.71	not relevant	
- posterior descending branch,	to 1294	Q5.23.84	not relevant	
- left posterior descending branch,	to 1294	Q5.23.72	not relevant	
- right coronary artery,	to 1294	Q5.23.73	not relevant	
- acute marginal branch,	to 1294	Q5.23.74	not relevant	
- right posterior descending branch,	to 1294	Q5.23.75	not relevant	
- extended left ventricular branch,	to 1294	Q5.23.76	not relevant	
- coronary arterial graft,	to 1295	Q5.23.78	not relevant	
- target coronary artery unknown/unspecified,	to 1294	Q5.23.79	not relevant	
no entry	to 1294	not relevant		
1294 @ Part of target coronary artery involved in CABG procedure - qualifiers				
- proximal third,	to 1295	Q5.24.51	not relevant	
- middle third,	to 1295	Q5.24.52	not relevant	
- distal third,	to 1295	Q5.24.53	not relevant	
- ostium,	to 1295	Q5.24.54	not relevant	
- right coronary ostium,	to 1295	Q5.24.55	not relevant	
- left coronary ostium,	to 1295	Q5.24.56	not relevant	
- specific part of coronary artery (DESCRIBE),	to 1295	Q5.24.59	not relevant	
no entry	to 1295	not relevant		
1295 @ Coronary arterial bypass graft conduit route & anastomosis type - qualifiers				
- conduit route unspecified-unknown,	to 1635	Q5.23.80	not relevant	
- aorto-coronary conduit,	to 1635	Q5.23.81	not relevant	
- pedicled arterial autograft conduit,	to 1635	Q5.23.82	not relevant	
- conduit from existing graft to coronary artery,	to 1635	Q5.23.83	not relevant	
- conduit route (DESCRIBE),	to 1635	Q5.23.89	not relevant	
- anastomoses unspecified,	to 1635	Q5.23.90	not relevant	
- by end-to-side x2 anastomoses,	to 1635	Q5.23.91	not relevant	
- by proximal end-to-side & distal side-to-side anastomosis,	to 1635	Q5.23.92	not relevant	
- by proximal side-to-side & distal end-to-side anastomosis,	to 1635	Q5.23.93	not relevant	
- by side-to-side x2 anastomoses,	to 1635	Q5.23.94	not relevant	
- coronary anastomosis (DESCRIBE),	to 1635	Q5.23.99	not relevant	
no entry	to 1000	not relevant		

1300 Arrhythmia and pacemaker procedures and settings

Pacing techniques for abolition of tachyarrhythmia	to 1302	not relevant	
Pacemaker system placement procedures	to 1303	not relevant	
Pacemaker system conversion procedures	to 1304	not relevant	
Implantable cardioverter & defibrillator (ICD) implantation procedures	to 1305	not relevant	
Pacemaker-implantable cardioverter & defibrillator (ICD) pulse generator placement	to 1307	not relevant	
Pacemaker lead (electrode/wire) placement	to 1312	not relevant	
Cardiac pacing stimulation method and mode	to 1322	not relevant	
Cardiac pacemaker stimulation method	to 1324	not relevant	
Procedures involving implanted pacemaker & implantable cardioverter & defibrillator (ICD) systems and leads	to 1326	not relevant	
Procedures to treat tachyarrhythmias	to 1330	not relevant	
Arrhythmia transmural/transcatheter procedures	to 1480	not relevant	
DC cardioversion	to 1000	12.32.14	12.32.14 DC cardioversion.
Pacemaker procedure	to 1000	12.34.68	12.34.68 Pacemaker procedure.
Transoesophageal indirect pacing system placement	to 1000	12.34.71	12.34.60 Pacemaker system placement: temporary.
Cardiac pacing using precordial lead	to 1000	12.34.72	12.34.60 Pacemaker system placement: temporary.
Cardiac resynchronisation therapy (biventricular pacing)	to 1000	12.34.73	12.34.73 Cardiac resynchronisation therapy (biventricular pacing).
Pacing lead in use	to 1000	12.34.65	No equivalent
Pacing lead not in use	to 1000	12.34.66	No equivalent
Insertable electrocardiogram (ECG) loop recorder (e.g. Reveal) implantation	to 800	13.00.14	13.00.14 Insertable electrocardiogram (ECG) loop recorder (e.g. Reveal) implantation.
Insertable electrocardiogram (ECG) loop recorder (e.g. Reveal) removal	to 800	13.00.15	13.00.15 Insertable electrocardiogram (ECG) loop recorder (e.g. Reveal) removal.

1302 Pacing techniques for abolition of tachyarrhythmia

Pacing to abolish arrhythmia.	to 1000	12.35.60	12.35.60 Pacing to abolish arrhythmia.
Competitive underdrive pacing to abolish arrhythmia.	to 1000	12.35.61	12.35.60 Pacing to abolish arrhythmia.
Programmed paced extrastimulation to abolish arrhythmia.	to 1000	12.35.62	12.35.60 Pacing to abolish arrhythmia.
Burst pacing to abolish arrhythmia.	to 1000	12.35.63	12.35.60 Pacing to abolish arrhythmia.
Overdrive pacing to abolish arrhythmia.	to 1000	12.35.64	12.35.60 Pacing to abolish arrhythmia.
50 Hz (20ms) pacing to abolish arrhythmia.	to 1000	12.35.65	12.35.60 Pacing to abolish arrhythmia.
Ramp pacing (increasing rate) to abolish arrhythmia.	to 1000	12.35.66	12.35.60 Pacing to abolish arrhythmia.
Atrial defibrillation.	to 1000	12.35.67	12.35.60 Pacing to abolish arrhythmia.

1303 Pacemaker system placement procedures

Pacemaker system placement.	to 1307	12.34.14	12.34.68 Pacemaker procedure.
Pacemaker system placement: temporary.	to 1312	12.34.60	12.34.60 Pacemaker system placement: temporary.
Pacemaker system placement: temporary epicardial.	to 1315	12.34.61	12.34.60 Pacemaker system placement: temporary.
Pacemaker system placement: temporary endocardial.	to 1314	12.34.62	12.34.60 Pacemaker system placement: temporary.
Pacemaker system placement: permanent.	to 1307	12.34.67	12.34.67 Pacemaker system placement: permanent.
Pacemaker system placement: permanent endocardial.	to 1000	12.34.64	12.34.64 Pacemaker system placement: permanent endocardial.
Pacemaker system placement: permanent epicardial.	to 1307	12.34.63	12.34.63 Pacemaker system placement: permanent epicardial.
Pacemaker system placement: single chamber.	to 1307	12.34.50	12.34.50 Pacemaker system placement: single chamber.
Pacemaker system placement: dual chamber.	to 1307	12.34.51	12.34.51 Pacemaker system placement: dual chamber.
Pacemaker system placement: atrial antitachycardia dual chamber.	to 1307	12.34.59	12.34.51 Pacemaker system placement: dual chamber.
Pacemaker system placement: biventricular.	to 1307	12.34.52	12.34.52 Pacemaker system placement: biventricular.
Pacemaker system placement: epicardial single chamber.	to 1307	12.34.53	12.34.50 Pacemaker system placement: single chamber.
Pacemaker system placement: epicardial dual chamber.	to 1307	12.34.54	12.34.51 Pacemaker system placement: dual chamber.
Pacemaker system placement: antitachycardia epicardial dual chamber.	to 1307	12.42.51	12.34.51 Pacemaker system placement: dual chamber.
Pacemaker system placement: epicardial biventricular.	to 1307	12.34.55	12.34.52 Pacemaker system placement: biventricular.
Pacemaker system placement: epicardial antitachycardia biventricular.	to 1307	12.42.80	12.34.52 Pacemaker system placement: biventricular.
Pacemaker system placement: endocardial.	to 1307	12.34.69	12.34.64 Pacemaker system placement: permanent endocardial.
Pacemaker system placement: endocardial single chamber.	to 1307	12.34.56	12.34.50 Pacemaker system placement: single chamber.
Pacemaker system placement: endocardial dual chamber.	to 1307	12.34.57	12.34.51 Pacemaker system placement: dual chamber.
Pacemaker system placement: endocardial antitachycardia dual chamber.	to 1307	12.42.52	12.34.51 Pacemaker system placement: dual chamber.
Pacemaker system placement: endocardial biventricular.	to 1307	12.34.58	12.34.52 Pacemaker system placement: biventricular.
Pacemaker system placement: endocardial antitachycardia biventricular.	to 1307	12.42.81	12.34.52 Pacemaker system placement: biventricular.

1304 Pacemaker system conversion procedures

Conversion of single chamber to dual chamber pacemaker system.	to 1307	12.44.01	12.34.51 Pacemaker system placement: dual chamber.
Conversion of single chamber epicardial to dual chamber epicardial pacemaker system.	to 1307	12.44.02	12.34.51 Pacemaker system placement: dual chamber.
Conversion of single chamber endocardial to dual chamber endocardial pacemaker system.	to 1307	12.44.03	12.34.51 Pacemaker system placement: dual chamber.
Conversion of single chamber epicardial to single chamber endocardial pacemaker system.	to 1307	12.44.04	12.34.50 Pacemaker system placement: single chamber.
Conversion of single chamber epicardial to dual chamber endocardial pacemaker system.	to 1307	12.44.05	12.34.51 Pacemaker system placement: dual chamber.
Conversion of dual chamber epicardial to dual chamber endocardial pacemaker system.	to 1307	12.44.06	12.34.51 Pacemaker system placement: dual chamber.
Conversion of single chamber to antitachycardia dual chamber pacemaker system.	to 1307	12.44.07	12.34.51 Pacemaker system placement: dual chamber.
Conversion of single chamber epicardial to antitachycardia dual chamber epicardial pacemaker system.	to 1307	12.44.08	12.34.51 Pacemaker system placement: dual chamber.
Conversion of single chamber endocardial to antitachycardia dual chamber endocardial pacemaker system.	to 1307	12.44.09	12.34.51 Pacemaker system placement: dual chamber.
Conversion of single chamber epicardial to antitachycardia dual chamber endocardial pacemaker system.	to 1307	12.44.10	12.34.51 Pacemaker system placement: dual chamber.
Conversion of dual chamber epicardial to antitachycardia dual chamber endocardial pacemaker system.	to 1307	12.44.11	12.34.51 Pacemaker system placement: dual chamber.
Conversion of dual chamber epicardial to biventricular epicardial pacemaker system.	to 1307	12.44.12	12.34.52 Pacemaker system placement: biventricular.
Conversion of dual chamber epicardial to biventricular endocardial pacemaker system.	to 1307	12.44.13	12.34.52 Pacemaker system placement: biventricular.
Conversion of dual chamber endocardial to biventricular endocardial pacemaker system.	to 1307	12.44.14	12.34.52 Pacemaker system placement: biventricular.
Conversion of dual chamber endocardial to biventricular epicardial pacemaker system.	to 1307	12.44.15	12.34.52 Pacemaker system placement: biventricular.
Conversion of dual chamber epicardial to antitachycardia biventricular epicardial pacemaker system.	to 1307	12.44.16	12.34.52 Pacemaker system placement: biventricular.
Conversion of dual chamber epicardial to antitachycardia biventricular endocardial pacemaker system.	to 1307	12.44.17	12.34.52 Pacemaker system placement: biventricular.
Conversion of dual chamber endocardial to antitachycardia biventricular endocardial pacemaker system.	to 1307	12.44.18	12.34.52 Pacemaker system placement: biventricular.
Conversion of dual chamber endocardial to antitachycardia biventricular epicardial pacemaker system.	to 1307	12.44.19	12.34.52 Pacemaker system placement: biventricular.

1305 Implantable cardioverter & defibrillator (ICD) implantation procedures

Implantable cardioverter & defibrillator (ICD) implantation.	to 1307	12.42.31	12.42.31 Implantable cardioverter & defibrillator (ICD) implantation.
Implantable cardioverter & defibrillator (ICD) implantation: single chamber.	to 1307	12.42.61	12.42.61 Implantable cardioverter & defibrillator (ICD) implantation: single chamber.
Implantable cardioverter & defibrillator (ICD) implantation: single chamber atrial.	to 1307	12.42.62	12.42.61 Implantable cardioverter & defibrillator (ICD) implantation: single chamber.
Implantable cardioverter & defibrillator (ICD) implantation: single chamber ventricular.	to 1307	12.42.63	12.42.61 Implantable cardioverter & defibrillator (ICD) implantation: single chamber.
Implantable cardioverter & defibrillator (ICD) implantation: dual chamber.	to 1307	12.42.64	12.42.64 Implantable cardioverter & defibrillator (ICD) implantation: dual chamber.
Implantable cardioverter & defibrillator (ICD) implantation: biventricular.	to 1307	12.42.65	12.42.65 Implantable cardioverter & defibrillator (ICD) implantation: biventricular.
Implantable cardioverter & defibrillator (ICD) implantation: endocardial.	to 1307	12.42.33	12.42.31 Implantable cardioverter & defibrillator (ICD) implantation.
Implantable cardioverter & defibrillator (ICD) implantation: endocardial single chamber.	to 1307	12.42.71	12.42.61 Implantable cardioverter & defibrillator (ICD) implantation: single chamber.
Implantable cardioverter & defibrillator (ICD) implantation: endocardial single chamber atrial.	to 1307	12.42.72	12.42.61 Implantable cardioverter & defibrillator (ICD) implantation: single chamber.
Implantable cardioverter & defibrillator (ICD) implantation: endocardial single chamber ventricular.	to 1307	12.42.73	12.42.61 Implantable cardioverter & defibrillator (ICD) implantation: single chamber.
Implantable cardioverter & defibrillator (ICD) implantation: endocardial dual chamber.	to 1307	12.42.74	12.42.64 Implantable cardioverter & defibrillator (ICD) implantation: dual chamber.
Implantable cardioverter & defibrillator (ICD) implantation: endocardial biventricular.	to 1307	12.42.75	12.42.65 Implantable cardioverter & defibrillator (ICD) implantation: biventricular.
Implantable cardioverter & defibrillator (ICD) implantation: epicardial.	to 1307	12.42.32	12.42.31 Implantable cardioverter & defibrillator (ICD) implantation.
Implantable cardioverter & defibrillator (ICD) implantation: epicardial single chamber.	to 1307	12.42.66	12.42.61 Implantable cardioverter & defibrillator (ICD) implantation: single chamber.
Implantable cardioverter & defibrillator (ICD) implantation: epicardial single chamber atrial.	to 1307	12.42.67	12.42.61 Implantable cardioverter & defibrillator (ICD) implantation: single chamber.
Implantable cardioverter & defibrillator (ICD) implantation: epicardial single chamber ventricular.	to 1307	12.42.68	12.42.61 Implantable cardioverter & defibrillator (ICD) implantation: single chamber.
Implantable cardioverter & defibrillator (ICD) implantation: epicardial dual chamber.	to 1307	12.42.69	12.42.64 Implantable cardioverter & defibrillator (ICD) implantation: dual chamber.
Implantable cardioverter & defibrillator (ICD) implantation: epicardial biventricular.	to 1307	12.42.70	12.42.65 Implantable cardioverter & defibrillator (ICD) implantation: biventricular.

1307 Pacemaker-implantable cardioverter & defibrillator (ICD) pulse generator placement

Pulse generator box placement.	to 1309	12.34.85	12.34.85 Pulse generator box placement.
Pulse generator box placement: axillary.	to 1309	12.34.86	12.34.85 Pulse generator box placement.
Pulse generator box placement: left axillary.	to 1309	12.38.04	12.34.85 Pulse generator box placement.
Pulse generator box placement: right axillary.	to 1309	12.38.05	12.34.85 Pulse generator box placement.
Pulse generator box placement: prepectoral.	to 1309	12.34.87	12.34.85 Pulse generator box placement.
Pulse generator box placement: left prepectoral.	to 1309	12.38.06	12.34.85 Pulse generator box placement.
Pulse generator box placement: right prepectoral.	to 1309	12.38.07	12.34.85 Pulse generator box placement.
Pulse generator box placement: subpectoral.	to 1309	12.34.88	12.34.85 Pulse generator box placement.
Pulse generator box placement: left subpectoral.	to 1309	12.38.08	12.34.85 Pulse generator box placement.
Pulse generator box placement: right subpectoral.	to 1309	12.38.09	12.34.85 Pulse generator box placement.
Pulse generator box placement: submammary.	to 1309	12.34.89	12.34.85 Pulse generator box placement.
Pulse generator box placement: left submammary.	to 1309	12.38.30	12.34.85 Pulse generator box placement.
Pulse generator box placement: right submammary.	to 1309	12.38.31	12.34.85 Pulse generator box placement.
Pulse generator box placement: suprarectal sheath.	to 1309	12.34.90	12.34.85 Pulse generator box placement.
Pulse generator box placement: left suprarectal sheath.	to 1309	12.38.32	12.34.85 Pulse generator box placement.
Pulse generator box placement: right suprarectal sheath.	to 1309	12.38.33	12.34.85 Pulse generator box placement.
Pulse generator box placement: subrectal sheath.	to 1309	12.34.91	12.34.85 Pulse generator box placement.
Pulse generator box placement: left subrectal sheath.	to 1309	12.38.34	12.34.85 Pulse generator box placement.
Pulse generator box placement: right subrectal sheath.	to 1309	12.38.35	12.34.85 Pulse generator box placement.
Pulse generator box placement: intrathoracic.	to 1309	12.38.01	12.34.85 Pulse generator box placement.
Pulse generator box placement: left intrathoracic.	to 1309	12.38.36	12.34.85 Pulse generator box placement.
Pulse generator box placement: right intrathoracic.	to 1309	12.38.37	12.34.85 Pulse generator box placement.
Pulse generator box placement: suprarenal.	to 1309	12.34.92	12.34.85 Pulse generator box placement.
Pulse generator box placement: left suprarenal.	to 1309	12.38.38	12.34.85 Pulse generator box placement.
Pulse generator box placement: right suprarenal.	to 1309	12.38.39	12.34.85 Pulse generator box placement.
Pulse generator box placement: inguinal.	to 1309	12.34.93	12.34.85 Pulse generator box placement.
Pulse generator box placement: left inguinal.	to 1309	12.38.03	12.34.85 Pulse generator box placement.
Pulse generator box placement: right inguinal.	to 1309	12.38.02	12.34.85 Pulse generator box placement.
no entry	to 1309	not relevant	

1309 @ Make & programmability of pacemaker pulse generator - qualifiers

- make of pacemaker pulse generator unspecified.	to 1312	Q5.35.31	not relevant
- multiprogrammable rate-responsive pacemaker.	to 1310	Q5.35.35	not relevant
- multiprogrammable pacemaker.	to 1312	Q5.35.33	not relevant

- rate-responsive pacemaker,	to 1310	Q5.42.00		not relevant
- simple programmable pacemaker,	to 1312	Q5.35.32		not relevant
- communicating pacemaker for transtelephonic interrogation & monitoring,	to 1312	Q5.35.34		not relevant
- make of pacemaker pulse generator. (DESCRIBE),	to 1312	Q5.35.39		not relevant
no entry	to 1312	not relevant		
1310 @ Cardiac pacemaker rate-responsiveness features - qualifiers				
- to respiration,	to 1312	Q5.42.01		not relevant
- to activity,	to 1312	Q5.42.02		not relevant
- to accelerometer,	to 1312	Q5.42.03		not relevant
- to right ventricular pressure/ volume parameters,	to 1312	Q5.42.04		not relevant
- to pre-ejection time,	to 1312	Q5.42.10		not relevant
- to QT interval,	to 1312	Q5.42.05		not relevant
- to temperature,	to 1312	Q5.42.06		not relevant
- to pH,	to 1312	Q5.42.07		not relevant
- to oxygen saturation,	to 1312	Q5.42.08		not relevant
- rate responsive to (DESCRIBE),	to 1312	Q5.42.09		not relevant
no entry	to 1312	not relevant		
1312 Pacemaker lead (electrode/wire) placement				
Pacemaker lead procedure,	to 1318	12.34.70	12.34.70	Pacemaker lead procedure,
Endocardial pacemaker pacing/sensing lead procedures	to 1314	not relevant		
Epicardial pacemaker lead procedures	to 1315	not relevant		
Implantable cardioverter & defibrillator (ICD) lead procedures	to 1316	not relevant		
Type of pacemaker lead - qualifiers	to 1318	not relevant		
1314 Endocardial pacemaker pacing/sensing lead procedures				
Endocardial pacemaker lead implantation,	to 1318	12.35.35	12.34.70	Pacemaker lead procedure,
Endocardial sensing/pacing pacemaker lead implantation,	to 1318	12.35.30	12.34.70	Pacemaker lead procedure,
Endocardial pacemaker lead implantation: atrial lead only,	to 1318	12.44.50	12.34.70	Pacemaker lead procedure,
Endocardial pacemaker lead implantation: ventricular lead only,	to 1318	12.44.51	12.34.70	Pacemaker lead procedure,
Endocardial pacemaker lead implantation: atrial & ventricular leads,	to 1318	12.44.52	12.34.70	Pacemaker lead procedure,
Endocardial sensing/pacing pacemaker lead implantation: right atrium,	to 1318	12.34.78	12.34.70	Pacemaker lead procedure,
Endocardial sensing/pacing pacemaker lead implantation: left atrium,	to 1318	12.34.79	12.34.70	Pacemaker lead procedure,
Endocardial sensing/pacing pacemaker lead implantation: coronary sinus,	to 1318	12.34.83	12.34.70	Pacemaker lead procedure,
Endocardial sensing/pacing pacemaker lead implantation: coronary sinus to pace left atrium,	to 1318	12.38.12	12.34.70	Pacemaker lead procedure,
Endocardial sensing/pacing pacemaker lead implantation: coronary sinus to pace left ventricle,	to 1318	12.38.13	12.34.70	Pacemaker lead procedure,
Endocardial sensing/pacing pacemaker lead implantation: right ventricle,	to 1318	12.34.81	12.34.70	Pacemaker lead procedure,
Endocardial sensing/pacing pacemaker lead implantation: right ventricular apex,	to 1318	12.35.20	12.34.70	Pacemaker lead procedure,
Endocardial sensing/pacing pacemaker lead implantation: right ventricular septum,	to 1318	12.35.21	12.34.70	Pacemaker lead procedure,
Endocardial sensing/pacing pacemaker lead implantation: right ventricular outflow tract,	to 1318	12.35.22	12.34.70	Pacemaker lead procedure,
Endocardial sensing/pacing pacemaker lead implantation: His bundle,	to 1318	12.35.23	12.34.70	Pacemaker lead procedure,
Endocardial sensing/pacing pacemaker lead implantation: left ventricle,	to 1318	12.34.82	12.34.70	Pacemaker lead procedure,
Implantation of implantable cardioverter & defibrillator (ICD) leads	to 1316	not relevant		
no entry	to 1320	not relevant		
1315 Epicardial pacemaker lead procedures				
Epicardial pacemaker lead implantation: atrial lead only,	to 1318	12.44.53	12.34.70	Pacemaker lead procedure,
Epicardial pacemaker lead implantation: ventricular lead only,	to 1318	12.44.54	12.34.70	Pacemaker lead procedure,
Epicardial pacemaker lead implantation: atrial & ventricular leads,	to 1318	12.44.55	12.34.70	Pacemaker lead procedure,
Epicardial pacemaker lead implantation: right atrium,	to 1318	12.34.74	12.34.70	Pacemaker lead procedure,
Epicardial pacemaker lead implantation: left atrium,	to 1318	12.34.75	12.34.70	Pacemaker lead procedure,
Epicardial pacemaker lead implantation: right ventricle,	to 1318	12.34.76	12.34.70	Pacemaker lead procedure,
Epicardial pacemaker lead implantation: left ventricle,	to 1318	12.34.77	12.34.70	Pacemaker lead procedure,
Epicardial sensing/pacing lead implantation,	to 1318	12.35.28	12.34.70	Pacemaker lead procedure,
Epicardial sensing/pacing pacemaker lead implantation: right atrium,	to 1318	12.38.10	12.34.70	Pacemaker lead procedure,
Epicardial sensing/pacing pacemaker lead implantation: left atrium,	to 1318	12.38.11	12.34.70	Pacemaker lead procedure,
Epicardial sensing/pacing lead implantation: right ventricle,	to 1318	12.42.41	12.42.31	Implantable cardioverter & defibrillator (ICD) implantation,
Epicardial sensing/pacing lead implantation: left ventricle,	to 1318	12.42.42	12.42.31	Implantable cardioverter & defibrillator (ICD) implantation,
Implantation of implantable cardioverter & defibrillator (ICD) leads	to 1316	not relevant		
Transmural (epicardial to endocardial) approach,	to 1000	12.40.63	No equivalent	
Trans-thoracic approach to heart	to 1780	not relevant		
no entry	to 1320	not relevant		
1316 Implantation of Implantable Cardioverter & defibrillator (ICD) leads				
Implantation of implantable cardioverter & defibrillator (ICD) lead,	to 1318	12.42.50	12.34.70	Pacemaker lead procedure,
Implantation of implantable cardioverter & defibrillator (ICD) separate coil lead	to 1317	not relevant		
Endocardial implantable cardioverter & defibrillator (ICD) lead implantation: right ventricle,	to 1318	12.35.24	12.34.70	Pacemaker lead procedure,
Endocardial implantable cardioverter & defibrillator (ICD) lead implantation: right ventricle,	to 1318	12.42.46	12.42.31	Implantable cardioverter & defibrillator (ICD) implantation,
Endocardial implantable cardioverter & defibrillator (ICD) lead implantation: right ventricular apex,	to 1318	12.35.25	12.34.70	Pacemaker lead procedure,
Endocardial implantable cardioverter & defibrillator (ICD) lead implantation: right ventricular septum,	to 1318	12.35.26	12.34.70	Pacemaker lead procedure,
Endocardial implantable cardioverter & defibrillator (ICD) lead implantation: right ventricular outflow tract,	to 1318	12.35.27	12.34.70	Pacemaker lead procedure,
Endocardial implantable cardioverter & defibrillator (ICD) lead implantation: left ventricle,	to 1318	12.42.48	12.42.31	Implantable cardioverter & defibrillator (ICD) implantation,
Endocardial implantable cardioverter & defibrillator (ICD) lead implantation: coronary sinus,	to 1318	12.42.49	12.42.31	Implantable cardioverter & defibrillator (ICD) implantation,
Subcutaneous placement of implantable cardioverter & defibrillator (ICD) patch left thorax,	to 1318	12.35.29	12.34.70	Pacemaker lead procedure,
Subcutaneous placement of implantable cardioverter & defibrillator (ICD) finger array left thorax,	to 1318	12.35.36	12.34.70	Pacemaker lead procedure,
Subcutaneous placement of transvenous implantable cardioverter & defibrillator (ICD) lead left thorax,	to 1318	12.35.37	12.34.70	Pacemaker lead procedure,
Subcutaneous placement implantable cardioverter & defibrillator (ICD) patch to right thorax,	to 1318	12.35.38	12.34.70	Pacemaker lead procedure,
Subcutaneous placement implantable cardioverter & defibrillator (ICD) finger array to right thorax,	to 1318	12.35.39	12.34.70	Pacemaker lead procedure,
Epicardial implantable cardioverter & defibrillator (ICD) patch implantation: right ventricle,	to 1318	12.42.44	12.42.31	Implantable cardioverter & defibrillator (ICD) implantation,
Epicardial implantable cardioverter & defibrillator (ICD) patch implantation: left ventricle,	to 1318	12.42.45	12.42.31	Implantable cardioverter & defibrillator (ICD) implantation,
Attachment of previously sited Implantable cardioverter & defibrillator (ICD) lead to generator,	to 1318	12.42.47	12.34.70	Pacemaker lead procedure,
no entry	to 1318	not relevant		
1317 Implantation of Implantable Cardioverter & Defibrillator (ICD) separate coil lead				
Implantation of Implantable Cardioverter & Defibrillator (ICD) separate coil lead,	to 1318	12.42.90	12.34.70	Pacemaker lead procedure,
Implantation of Implantable Cardioverter & Defibrillator (ICD) separate coil lead to right superior caval vein,	to 1318	12.42.91	12.34.70	Pacemaker lead procedure,
Implantation of Implantable Cardioverter & Defibrillator (ICD) separate coil lead to left superior caval vein,	to 1318	12.42.92	12.34.70	Pacemaker lead procedure,
Implantation of Implantable Cardioverter & Defibrillator (ICD) separate coil lead to right atrium,	to 1318	12.42.93	12.34.70	Pacemaker lead procedure,
Implantation of Implantable Cardioverter & Defibrillator (ICD) separate coil lead to coronary sinus,	to 1318	12.42.94	12.34.70	Pacemaker lead procedure,
Implantation of Implantable Cardioverter & Defibrillator (ICD) separate coil lead to right ventricle,	to 1318	12.42.95	12.34.70	Pacemaker lead procedure,
1318 @ Type of pacemaker lead - qualifiers				
- lead with lined passive fixation,	to 1320	Q5.35.05		not relevant
- single coil defibrillator lead with lined passive fixation,	to 1320	Q5.35.11		not relevant
- dual coil defibrillator lead with lined passive fixation,	to 1320	Q5.35.12		not relevant
- lead with screw-in fixation,	to 1320	Q5.35.06		not relevant
- single coil defibrillator lead with screw-in fixation,	to 1320	Q5.35.13		not relevant
- dual coil defibrillator lead with screw-in fixation,	to 1320	Q5.35.14		not relevant
- single coil,	to 1320	Q5.35.17		not relevant
- dual coil,	to 1320	Q5.35.18		not relevant
- multifilament,	to 1320	Q5.35.26		not relevant
- steroid eluting lead,	to 1320	Q5.35.07		not relevant
- steroid eluting porous tipped lead with positive fixation (eg Sweet Tip),	to 1320	Q5.35.25		not relevant
- straight shaped lead,	to 1320	Q5.35.08		not relevant
- J-shaped lead,	to 1320	Q5.35.09		not relevant
- epicardial sutured lead,	to 1322	Q5.35.10		not relevant
- epicardial screw in lead,	to 1322	Q5.35.19		not relevant
- unipolar lead,	to 1320	Q5.35.15		not relevant
- bipolar lead,	to 1320	Q5.35.16		not relevant
- coronary sinus lead,	to 1320	Q5.35.20		not relevant
- lead without fixation property,	to 1320	Q5.35.21		not relevant
- Goretex coated lead,	to 1320	Q5.35.22		not relevant
- silicon coated lead,	to 1320	Q5.35.27		not relevant
no entry	to 1320	not relevant		
1320 Pacemaker lead implantation access				
Open implantation of endocardial pacemaker lead,	to 1321	12.34.94	12.34.70	Pacemaker lead procedure,
Pacemaker lead implantation via cephalic vein,	to 1321	12.34.95	12.34.70	Pacemaker lead procedure,
Pacemaker lead implantation via internal jugular vein,	to 1321	12.34.96	12.34.70	Pacemaker lead procedure,
Pacemaker lead implantation via external jugular vein,	to 1321	12.34.97	12.34.70	Pacemaker lead procedure,
Pacemaker lead implantation via subclavian vein,	to 1321	12.34.98	12.34.70	Pacemaker lead procedure,
Pacemaker lead implantation via femoral vein,	to 1321	12.34.99	12.34.70	Pacemaker lead procedure,
Pacemaker lead implantation via hepatic vein,	to 1321	12.35.00	12.34.70	Pacemaker lead procedure,
Epicardial lead	to 1322	not relevant		
no entry	to 1322	not relevant		
1321 @ Pacemaker lead implantation access qualifiers				
- via right superior caval vein,	to 1322	Q5.36.01		not relevant
- via left superior caval vein,	to 1322	Q5.36.02		not relevant
- leaving loop for growth,	to 1322	Q5.36.03		not relevant
no entry	not relevant			

1322 @ Cardiac pacing stimulation method and mode

Cardiac pacing mode = unspecified,	to 1324	12.34.01			not relevant
Cardiac pacing mode = AAL,	to 1324	12.34.02			not relevant
Cardiac pacing mode = AAT,	to 1324	12.34.03			not relevant
Cardiac pacing mode = AOO,	to 1324	12.34.04			not relevant
Cardiac pacing mode = DDD,	to 1324	12.34.05			not relevant
Cardiac pacing mode = DDO,	to 1324	12.34.06			not relevant
Cardiac pacing mode = DVI,	to 1324	12.34.07			not relevant
Cardiac pacing mode = VAT,	to 1324	12.34.08			not relevant
Cardiac pacing mode = VDD,	to 1324	12.34.09			not relevant
Cardiac pacing mode = VDDR,	to 1324	12.34.22			not relevant
Cardiac pacing mode = VDI,	to 1324	12.34.30			not relevant
Cardiac pacing mode = VDR,	to 1324	12.34.31			not relevant
Cardiac pacing mode = VOO,	to 1324	12.34.10			not relevant
Cardiac pacing mode = VVI,	to 1324	12.34.11			not relevant
Cardiac pacing mode = VVR,	to 1324	12.34.12			not relevant
Cardiac pacing mode = VVT,	to 1324	12.34.13			not relevant
Cardiac pacing mode = AAR,	to 1324	12.34.15			not relevant
Cardiac pacing mode = AAT,	to 1324	12.34.17			not relevant
Cardiac pacing mode = DDDR,	to 1324	12.34.16			not relevant
Cardiac pacing mode = DVR,	to 1324	12.34.18			not relevant
Cardiac pacing mode = atrial synchronous biventricular,	to 1324	12.34.20			not relevant
Cardiac pacing mode = atrial synchronous multifocal,	to 1324	12.34.21			not relevant
Cardiac pacing mode = R wave synchronised,	to 1324	12.34.23			not relevant
Cardiac pacing mode = antitachyarrhythmia (pacing),	to 1324	12.34.24			not relevant
Cardiac pacing mode = antitachyarrhythmia (pacing) mode not set,	to 1324	12.34.25			not relevant
Cardiac pacing mode = shock,	to 1324	12.34.26			not relevant
Cardiac pacing mode = antitachyarrhythmia (pacing) & shock (P+S),	to 1324	12.34.27			not relevant
Cardiac pacing mode = pace preference,	to 1324	12.34.28			not relevant
Cardiac pacing mode = without pace preference,	to 1324	12.34.29			not relevant
Cardiac pacing mode = rate smoothing algorithm,	to 1324	12.34.32			not relevant
Cardiac pacing mode = without rate smoothing algorithm,	to 1324	12.34.33			not relevant
Cardiac pacing mode = (DESCRIBE),	to 1324	12.34.19			not relevant

1324 @ Cardiac pacemaker stimulation method

Cardiac pacemaker stimulation method = unspecified,	to 1000	12.34.40			not relevant
Cardiac pacemaker stimulation method = fixed rate,	to 1000	12.34.41			not relevant
Cardiac pacemaker stimulation method = triggered,	to 1000	12.34.42			not relevant
Cardiac pacemaker stimulation method = atrial override,	to 1000	12.34.43			not relevant
Cardiac pacemaker stimulation method = ventricular override,	to 1000	12.34.44			not relevant
Cardiac pacemaker stimulation method = unipolar,	to 1000	12.35.01			not relevant
Cardiac pacemaker stimulation method = bipolar,	to 1000	12.35.02			not relevant

1326 Procedures involving implanted pacemaker systems and leads

Repositioning of pacemaker lead,	to 1327	12.35.11	V53.3	245.0	12.34.84	Pacemaker lead revision procedure,
Replacement of pacemaker lead,	to 1327	12.35.18	V53.3	245.0	12.34.84	Pacemaker lead revision procedure,
Resling of pacemaker generator box,	to 1307	12.35.17			12.34.68	Pacemaker procedure,
Resling of pacemaker generator box due to local infection,	to 1307	12.44.80			12.34.68	Pacemaker procedure,
Revision of pacemaker generator box in skin pocket,	to 1307	12.35.19			12.34.68	Pacemaker procedure,
Pacemaker lead revision procedure,	to 1318	12.34.84			12.34.84	Pacemaker lead revision procedure,
Pacemaker lead revision procedure: atrial,	to 1318	12.44.41			12.34.84	Pacemaker lead revision procedure,
Pacemaker lead revision procedure: ventricular,	to 1318	12.44.42			12.34.84	Pacemaker lead revision procedure,
Pacemaker lead revision procedure: atrial & ventricular,	to 1318	12.44.43			12.34.84	Pacemaker lead revision procedure,
Pulse generator box (battery) replacement,	to 1309	12.35.13	V53.3	245.0	12.35.13	Pulse generator box replacement,
Pulse generator box replacement with single chamber generator,	to 1309	12.44.70	V53.3	245.0	12.35.13	Pulse generator box replacement,
Pulse generator box replacement with dual chamber generator,	to 1309	12.44.71	V53.3	245.0	12.35.13	Pulse generator box replacement,
Pulse generator box replacement with antitachycardia dual chamber generator,	to 1309	12.44.72	V53.3	245.0	12.35.13	Pulse generator box replacement,
Pulse generator box replacement with biventricular generator,	to 1309	12.44.73	V53.3	245.0	12.35.13	Pulse generator box replacement,
Pulse generator box replacement with antitachycardia biventricular generator,	to 1309	12.44.74	V53.3	245.0	12.35.13	Pulse generator box replacement,
Removal of complete implanted cardiac pacemaker system,	to 1000	12.35.14	V53.3	245.0	12.35.14	Removal of complete implanted cardiac pacemaker system,
Implantable cardioverter & defibrillator (ICD) procedure,	to 1307	12.42.39			12.42.39	Implantable cardioverter & defibrillator (ICD) procedure,
Implantable cardioverter & defibrillator (ICD) system removal,	to 1307	12.42.34			12.42.34	Implantable cardioverter & defibrillator (ICD) system removal,
Isolated removal of implanted pulse generator,	to 1000	12.35.15	V53.3	245.0	12.34.68	Pacemaker procedure,
Removal of implanted pacemaker lead,	to 1327	12.44.75	V53.3	245.0	12.44.75	Removal of implanted pacemaker lead,
Removal of implanted pacemaker lead: transluminal,	to 1327	12.44.76	V53.3	245.0	12.44.75	Removal of implanted pacemaker lead,
Removal of implanted pacemaker lead: open,	to 1327	12.44.77	V53.3	245.0	12.44.75	Removal of implanted pacemaker lead,
Isolated removal of implanted pacemaker lead,	to 1327	12.35.16	V53.3	245.0	12.44.75	Removal of implanted pacemaker lead,
Removal of implanted pacemaker lead using laser sheath,	to 1327	12.44.81	V53.3	245.0	12.44.75	Removal of implanted pacemaker lead,
Reopening of pacemaker generator box site to evacuate haematoma,	to 1000	12.44.78			12.34.68	Pacemaker procedure,
Reopening of pacemaker generator box site to deal with infection,	to 1000	12.44.79			12.34.68	Pacemaker procedure,

1327 @ Characteristics of pacemaker or implantable cardioverter & defibrillator (ICD) lead replanted or removed - qualifiers

- epicardial lead,	to 1318	Q5.36.80			not relevant
- endocardial lead,	to 1318	Q5.36.81			not relevant
- temporary endocardial lead,	to 1318	Q5.35.23			not relevant
- temporary epicardial lead,	to 1318	Q5.35.24			not relevant
- pacing/sensing lead,	to 1318	Q5.36.82			not relevant
- implantable cardioverter & defibrillator (ICD) lead,	to 1318	Q5.36.83			not relevant
- atrial lead,	to 1318	Q5.36.84			not relevant
- right atrial lead,	to 1318	Q5.36.89			not relevant
- left atrial lead,	to 1318	Q5.36.90			not relevant
- ventricular lead,	to 1318	Q5.36.85			not relevant
- right ventricular lead,	to 1318	Q5.35.91			not relevant
- left ventricular lead,	to 1318	Q5.35.92			not relevant
- atrial & ventricular leads,	to 1318	Q5.36.86			not relevant
- coronary sinus lead,	to 1320	Q5.35.20			not relevant
- less than 15 days after insertion,	to 1318	Q5.36.87			not relevant
- more than or equal to 15 days after insertion,	to 1318	Q5.36.88			not relevant
Site of pacemaker lead - qualifiers	to 3205	not relevant			
no entry	not relevant				

1330 Surgical procedures to treat tachyarrhythmias

Cryoablation, laser ablation & radio-frequency procedures	to 1335	not relevant				
Arrhythmia surgical procedure,	to 880	12.35.40			12.35.40	Arrhythmia surgical procedure,
Surgical localisation and mapping procedure for arrhythmia,	to 880	12.38.50			12.38.50	Surgical localisation and mapping procedure for arrhythmia,
Surgical localisation and mapping procedure for arrhythmia: endocardial,	to 880	12.38.51			12.38.50	Surgical localisation and mapping procedure for arrhythmia,
Surgical localisation and mapping procedure for arrhythmia: epicardial,	to 880	12.38.52			12.38.50	Surgical localisation and mapping procedure for arrhythmia,
Surgical localisation and mapping procedure for arrhythmia: multielectrode array,	to 880	12.38.53			12.38.50	Surgical localisation and mapping procedure for arrhythmia,
Transection procedure for arrhythmia,	to 880	12.35.41			12.35.40	Arrhythmia surgical procedure,
Excision procedure for arrhythmia,	to 880	12.35.42			12.35.40	Arrhythmia surgical procedure,
Right atrial appendage excision,	to 880	12.01.66			12.01.60	Right atrial procedure,
Left atrial appendage excision,	to 880	12.01.40			12.01.30	Left atrial procedure,
Exclusion procedure for arrhythmia,	to 880	12.35.43			12.35.40	Arrhythmia surgical procedure,
Left atrial appendage ligation procedure for arrhythmia,	to 880	12.35.44			12.35.40	Arrhythmia surgical procedure,
Left atrial appendage isolation procedure for arrhythmia,	to 880	12.38.55			12.35.40	Arrhythmia surgical procedure,
Diathermy procedure for arrhythmia,	to 880	12.35.45			12.35.40	Arrhythmia surgical procedure,
Intracoronary ethanol ablation for arrhythmia,	to 880	12.35.52			12.23.42	Transluminal chemical occlusion of coronary artery,
Maze operation,	to 1341	12.35.53			12.35.53	Maze operation,
Maze operation - modified,	to 1341	12.35.69			12.35.53	Maze operation,
Maze-Cox procedure,	to 1341	12.35.58			12.35.53	Maze operation,
Cox-Maze IV procedure,	to 1341	12.35.72			12.35.72	Cox-Maze IV procedure,
Cox-Maze IV procedure: right sided,	to 1341	12.35.73			12.35.72	Cox-Maze IV procedure,
Cox-Maze IV procedure: right and left sided,	to 1341	12.35.74			12.35.72	Cox-Maze IV procedure,
Maze operation - right atrial,	to 1341	12.35.59			12.35.53	Maze operation,
Maze operation - left atrial,	to 1341	12.35.71			12.35.53	Maze operation,
Corridor operation,	to 1341	12.35.54			12.35.40	Arrhythmia surgical procedure,
Partial disconnection of atrium from ventricle & reconnection,	to 880	12.35.55			12.35.40	Arrhythmia surgical procedure,
Complete disconnection of atrium from ventricle & reconnection,	to 880	12.35.56			12.35.40	Arrhythmia surgical procedure,
Automatic cardioverter & defibrillator procedures	to 1310	not relevant				

1335 Cryoablation, laser ablation & radio-frequency procedures

Transluminal-transcatheter arrhythmia procedures	to 1480	not relevant				
Surgical ablation procedures for atrial arrhythmias	to 1336	not relevant				
Surgical ablation procedures for ventricular arrhythmias	to 1340	not relevant				
Surgical ablation ± dissection procedure for arrhythmia,	to 880	12.35.49			12.35.40	Arrhythmia surgical procedure,
Surgical laser ablation procedure for arrhythmia,	to 880	12.35.50			12.35.40	Arrhythmia surgical procedure,
Surgical radiofrequency ablation procedure for arrhythmia,	to 880	12.35.51			12.35.40	Arrhythmia surgical procedure,
Surgical microwave ablation procedure for arrhythmia,	to 880	12.38.21			12.35.40	Arrhythmia surgical procedure,
Surgical ablation procedure for arrhythmia using diathermy,	to 880	12.38.22			12.35.40	Arrhythmia surgical procedure,
Surgical ablation procedure utilising pulmonary vein excision,	to 880	12.35.85			12.35.40	Arrhythmia surgical procedure,
Percutaneous epicardial ablation procedure for arrhythmia,	to 1341	12.38.69			12.38.69	Percutaneous radiofrequency epicardial ablation procedure for arrhythmia,
Cardiac incisions, approaches and closures	to 1786	not relevant				

1336 Surgical ablation procedures for atrial arrhythmias

Surgical ablation procedure for atrial arrhythmia,	to 1341	12.35.80		12.35.80	Surgical ablation procedure for atrial arrhythmia,
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Surgical ablation procedure for atrial arrhythmia: accessory pathway,	to 1341	12.35.86	12.35.80	Surgical ablation procedure for atrial arrhythmia,
Surgical ablation ± dissection procedure for atrial arrhythmia: accessory pathway,	to 1341	12.35.87	12.35.80	Surgical ablation procedure for atrial arrhythmia,
Surgical procedure for atrial arrhythmia: atrioventricular nodal reentry,	to 1341	12.35.88	12.35.80	Surgical ablation procedure for atrial arrhythmia,
Surgical ablation procedure for atrial arrhythmia: atrioventricular nodal reentry,	to 880	12.35.89	12.35.80	Surgical ablation procedure for atrial arrhythmia,
Surgical dissection procedure for atrial arrhythmia: atrioventricular nodal reentry,	to 880	12.35.90	12.35.80	Surgical ablation procedure for atrial arrhythmia,
Surgical ablation procedure for atrial fibrillation,	to 1341	12.35.91	12.35.80	Surgical ablation procedure for atrial arrhythmia,
Surgical ablation procedure for atrial fibrillation: Micro maze (thoracoscopic epicardial approach),	to 1341	12.38.68	12.35.80	Surgical ablation procedure for atrial arrhythmia,
Surgical ablation ± dissection procedure for atrial fibrillation,	to 1341	12.35.92	12.35.80	Surgical ablation procedure for atrial arrhythmia,
Surgical ablation ± dissection procedure for atrial fibrillation: Maze or Maze-Cox,	to 1341	12.35.93	12.35.80	Surgical ablation procedure for atrial arrhythmia,
Surgical ablation ± dissection procedure for atrial fibrillation: right atrial Maze or Maze-Cox,	to 1341	12.35.94	12.35.80	Surgical ablation procedure for atrial arrhythmia,
Surgical ablation ± dissection procedure for atrial fibrillation: biatrial Maze or Maze-Cox,	to 1341	12.35.95	12.35.80	Surgical ablation procedure for atrial arrhythmia,
Surgical ablation procedure for macro-reentrant atrial tachycardia (including atrial flutter),	to 1341	12.35.96	12.35.80	Surgical ablation procedure for atrial arrhythmia,
Surgical ablation procedure for macro-reentrant atrial tachycardia (including atrial flutter): Maze-type,	to 1341	12.35.97	12.35.80	Surgical ablation procedure for atrial arrhythmia,
Surgical ablation ± dissection procedure for macro-reentrant atrial tachycardia (including atrial flutter): Maze-type,	to 1341	12.35.98	12.35.80	Surgical ablation procedure for atrial arrhythmia,
Surgical ablation & dissection procedure for macro-reentrant atrial tachycardia (including atrial flutter): Maze-type,	to 1341	12.35.99	12.35.80	Surgical ablation procedure for atrial arrhythmia,
Surgical ablation procedure for macro-reentrant atrial tachycardia (including atrial flutter): Maze-type,	to 1341	12.38.60	12.35.80	Surgical ablation procedure for atrial arrhythmia,
Surgical ablation procedure for macro-reentrant atrial tachycardia (including atrial flutter),	to 1341	12.38.61	12.35.80	Surgical ablation procedure for atrial arrhythmia,
Surgical dissection procedure for macro-reentrant atrial tachycardia (including atrial flutter): Maze-type,	to 1341	12.38.62	12.35.80	Surgical ablation procedure for atrial arrhythmia,
Surgical dissection procedure for macro-reentrant atrial tachycardia (including atrial flutter),	to 1341	12.38.63	12.35.80	Surgical ablation procedure for atrial arrhythmia,
Surgical ablation procedure for focal atrial tachycardia,	to 1341	12.38.64	12.35.80	Surgical ablation procedure for atrial arrhythmia,
Surgical ablation ± dissection procedure for focal atrial tachycardia,	to 1341	12.38.65	12.35.80	Surgical ablation procedure for atrial arrhythmia,
Surgical excision procedure for focal atrial tachycardia,	to 881	12.38.66	12.35.80	Surgical ablation procedure for atrial arrhythmia,
Surgical isolation procedure for focal atrial tachycardia,	to 881	12.38.67	12.35.80	Surgical ablation procedure for atrial arrhythmia,
Endocardial approach,	to 1000	12.40.61	No equivalent	
Epicardial approach,	to 1000	12.40.62	No equivalent	
1340 Surgical ablation procedures for ventricular arrhythmias				
Surgical ablation procedure for ventricular arrhythmia,	to 883	12.35.81	12.35.81	Surgical ablation procedure for ventricular arrhythmia,
Surgical ablation procedure for ventricular arrhythmia: endocardial: resection and/or isolation and/or energy mediated,	to 883	12.38.90	12.35.81	Surgical ablation procedure for ventricular arrhythmia,
Surgical ablation procedure for ventricular arrhythmia: epicardial: resection and/or isolation and/or energy mediated,	to 883	12.38.91	12.35.81	Surgical ablation procedure for ventricular arrhythmia,
Surgical ablation procedure for ventricular arrhythmia: cryoablation,	to 883	12.38.92	12.35.81	Surgical ablation procedure for ventricular arrhythmia,
Surgical ablation procedure for ventricular arrhythmia: radiofrequency,	to 883	12.38.93	12.35.81	Surgical ablation procedure for ventricular arrhythmia,
Surgical ablation procedure for focal ventricular arrhythmia,	to 883	12.38.81	12.35.81	Surgical ablation procedure for ventricular arrhythmia,
Surgical ablation procedure for focal ventricular arrhythmia: cryoablation,	to 883	12.38.82	12.35.81	Surgical ablation procedure for ventricular arrhythmia,
Surgical ablation procedure for focal ventricular arrhythmia: isolation,	to 883	12.38.83	12.35.81	Surgical ablation procedure for ventricular arrhythmia,
Surgical ablation procedure for focal ventricular arrhythmia: resection,	to 883	12.38.84	12.35.81	Surgical ablation procedure for ventricular arrhythmia,
Surgical ablation procedure for reentry ventricular arrhythmia,	to 883	12.38.85	12.35.81	Surgical ablation procedure for ventricular arrhythmia,
Surgical ablation procedure for reentry ventricular arrhythmia: cryoablation,	to 883	12.38.86	12.35.81	Surgical ablation procedure for ventricular arrhythmia,
Surgical ablation procedure for reentry ventricular arrhythmia: isolation,	to 883	12.38.87	12.35.81	Surgical ablation procedure for ventricular arrhythmia,
Surgical ablation procedure for reentry ventricular arrhythmia: resection,	to 883	12.38.88	12.35.81	Surgical ablation procedure for ventricular arrhythmia,
Surgical ablation procedure for ventricular arrhythmia: tumour resection,	to 883	12.38.89	12.35.81	Surgical ablation procedure for ventricular arrhythmia,
Endocardial approach,	to 1000	12.40.61	No equivalent	
Epicardial approach,	to 1000	12.40.62	No equivalent	
1341 @ Surgical ablation procedures for arrhythmias: technique qualifiers				
- radiofrequency ablation,	to 880	Q5.38.50	not relevant	
- cryoablation,	to 880	Q5.38.51	not relevant	
- radiofrequency ablation & cryoablation,	to 880	Q5.38.52	not relevant	
- surgical incisions,	to 880	Q5.38.53	not relevant	
- surgical incisions & radiofrequency ablation,	to 880	Q5.38.54	not relevant	
- surgical incisions & cryoablation,	to 880	Q5.38.55	not relevant	
- surgical incisions & radiofrequency ablation & cryoablation,	to 880	Q5.38.56	not relevant	
no entry	to 880	not relevant		
End of branch				
1350 Transplantation of heart and/or lungs				
Heart and lung transplant	to 1360	not relevant		
Heart and/or lung transplant sequence	to 1365	not relevant		
Organ procurement and removal for transplantation procedures	to 1370	not relevant		
Heart transplant,	to 1352	12.37.01	12.37.01	Heart transplant,
Transplantation of heart: allotransplant,	to 1352	12.32.12	12.37.01	Heart transplant,
Transplantation of heart: orthotopic allotransplant,	to 1352	12.37.02	12.37.02	Heart transplant,
Transplantation of heart: heterotopic (piggy back) allotransplant,	to 1352	12.37.03	12.37.03	Transplantation of heart: heterotopic (piggy back) allotransplant,
Transplantation of heart: ABO incompatible donor,	to 1352	12.37.06	12.37.06	Transplantation of heart: ABO incompatible donor,
Prosthetic heart implantation,	to 1377	12.37.04	12.37.04	Prosthetic heart implantation,
Xenotransplant of heart,	to 1352	12.37.05	12.37.01	Heart transplant,
Xenotransplant of heart - orthotopic,	to 1352	12.37.48	12.37.01	Heart transplant,
Xenotransplant of heart - heterotopic,	to 1352	12.37.45	12.37.01	Heart transplant,
Transplant from brain dead donor,	to 1000	12.37.41	12.32.21	Cardiac procedure,
Transplant from brain dead beating heart donor,	to 1000	12.37.44	12.32.21	Cardiac procedure,
Transplant from brain dead nonbeating heart donor,	to 1000	12.37.42	12.32.21	Cardiac procedure,
1352 @ Heart transplant qualifiers				
- with intracardiac repair,	to 1000	Q5.37.81	not relevant	
- with transverse arch augmentation,	to 1000	Q5.37.82	not relevant	
- without transverse arch augmentation,	to 1000	Q5.37.83	not relevant	
- bicaval anastomosis,	to 1000	Q5.37.84	not relevant	
- right atrial cuff anastomosis,	to 1000	Q5.37.85	not relevant	
- using nonbeating heart,	to 1350	Q5.38.27	not relevant	
- using beating heart,	to 1350	Q5.38.28	not relevant	
no entry	to 1000	not relevant		
1360 Heart and lung transplantation				
Transplantation of heart and lung(s),	to 1000	12.32.13	12.32.13	Transplantation of heart and lungs,
Lung(s) transplant,	to 1364	12.37.60	12.37.60	Lung(s) transplant,
Single lung transplant,	to 1364	12.37.13	12.37.13	Single lung transplant,
Single right lung transplant,	to 1364	12.37.21	12.37.13	Single lung transplant,
Single right lung lobe transplant,	to 1364	12.37.28	12.37.13	Single lung transplant,
Single left lung transplant,	to 1364	12.37.22	12.37.13	Single lung transplant,
Single left lung lobe transplant,	to 1364	12.37.29	12.37.13	Single lung transplant,
Double lung transplant,	to 1364	12.37.20	12.37.20	Double lung transplant,
Double lung transplant - en bloc,	to 1364	12.37.14	12.37.20	Double lung transplant,
Double lung transplant - sequential,	to 1364	12.37.15	12.37.20	Double lung transplant,
Double lung transplant - sequential lungs,	to 1364	12.37.46	12.37.20	Double lung transplant,
Double lung transplant - sequential lobes,	to 1364	12.37.47	12.37.20	Double lung transplant,
Removal from donor of heart/lung bloc,	to 1000	12.37.16	12.37.70	Surgical procedure for transplantation,
Bronchial revascularisation during lung(s) transplant,	to 1000	12.37.11	12.64.40	Tracheobronchial reconstruction procedure,
Bronchial anastomosis reinforcement by telescoping,	to 1000	12.37.17	12.64.40	Tracheobronchial reconstruction procedure,
Bronchial anastomosis reinforcement by omentopexy,	to 1000	12.37.18	12.64.40	Tracheobronchial reconstruction procedure,
Bronchial anastomosis without reinforcement,	to 1000	12.37.19	12.64.40	Tracheobronchial reconstruction procedure,
Live related living lung transplantation,	to 1000	12.37.23	12.37.60	Lung(s) transplant,
Live related living right lung transplantation,	to 1000	12.37.24	12.37.13	Single lung transplant,
Live related living left lung transplantation,	to 1000	12.37.25	12.37.13	Single lung transplant,
1364 @ Specifics of lung transplant procedure				
- using cadaveric donor,	to 3300	Q5.38.21	not relevant	
- using living related donor,	to 3300	Q5.38.22	not relevant	
- using living unrelated donor,	to 3300	Q5.38.23	not relevant	
- using pneumonectomy,	to 3300	Q5.38.29	not relevant	
- using lobectomy,	to 3300	Q5.38.30	not relevant	
- using bilobectomy,	to 3300	Q5.38.31	not relevant	
- using segmental lung resection,	to 3300	Q5.38.32	not relevant	
- using ABO incompatible donor,	to 3300	Q5.38.24	not relevant	
- with intracardiac repair,	to 3300	Q5.38.25	not relevant	
- from brain dead donor,	to 1350	Q5.38.26	not relevant	
- using nonbeating heart,	to 1350	Q5.38.27	not relevant	
- using beating heart,	to 1350	Q5.38.28	not relevant	
no entry	to 1000	not relevant		
1365 @ Heart and/or lung transplant sequence				
Initial transplant,	to 1350	12.37.51	not relevant	
Retransplant,	to 1350	12.37.57	not relevant	
First retransplant,	to 1350	12.37.52	not relevant	
Second retransplant,	to 1350	12.37.53	not relevant	
Third retransplant,	to 1350	12.37.54	not relevant	
Fourth or more retransplant,	to 1350	12.37.55	not relevant	
Fifth or more retransplant,	to 1350	12.37.56	not relevant	
1370 Organ procurement and removal for transplantation				
Organ procurement for transplantation,	to 1350	12.37.70	12.37.70	Organ procurement for transplantation,
Organ procurement: heart,	to 1350	12.37.71	12.37.70	Organ procurement for transplantation,
Removal of heart from cadaveric donor,	to 1000	12.37.08	12.37.70	Organ procurement for transplantation,
Removal of heart from brain dead beating heart donor,	to 1000	12.37.43	12.37.70	Organ procurement for transplantation,

Removal of heart from live donor (domino transplant),	to 1000	12.37.09	12.37.70	Organ procurement for transplantation,
Organ procurement: heart & lung(s),	to 1350	12.37.72	12.37.70	Organ procurement for transplantation,
Organ procurement: heart & both lungs,	to 1350	12.37.73	12.37.70	Organ procurement for transplantation,
Organ procurement: heart & left lung,	to 1350	12.37.74	12.37.70	Organ procurement for transplantation,
Organ procurement: heart & right lung,	to 1350	12.37.75	12.37.70	Organ procurement for transplantation,
Organ procurement: lung(s),	to 1364	12.37.76	12.37.70	Organ procurement for transplantation,
Organ procurement: both lungs,	to 1364	12.37.77	12.37.70	Organ procurement for transplantation,
Organ procurement: left lung,	to 1364	12.37.78	12.37.70	Organ procurement for transplantation,
Organ procurement: right lung,	to 1364	12.37.79	12.37.70	Organ procurement for transplantation,
Organ procurement: lung lobe,	to 1364	12.37.80	12.37.70	Organ procurement for transplantation,
Removal from donor of heart-lung bloc,	to 1000	12.37.16	12.37.70	Organ procurement for transplantation,
Removal of right lung bloc from living donor,	to 1000	12.37.26	12.37.70	Organ procurement for transplantation,
Removal of right lung lobe from living donor,	to 3300	12.37.30	12.37.70	Organ procurement for transplantation,
Removal of left lung bloc from living donor,	to 1000	12.37.27	12.37.70	Organ procurement for transplantation,
Removal of left lung lobe from living donor,	to 3300	12.37.31	12.37.70	Organ procurement for transplantation,
1377 @ Prosthetic heart devices - qualifiers				
- unspecified device,	to 1352	Q5.38.00		not relevant
- prosthetic heart device unspecified,	to 1352	Q5.38.01		not relevant
- total implantable artificial heart,	to 1352	Q5.38.02		not relevant
- prosthetic heart device (DESCRIBE),	to 1352	Q5.38.09		not relevant
no entry	to 1352	not relevant		
_____ End of branch _____				
1380 Pericardial, tumour, trauma and miscellaneous procedures				
Pericardial procedures	to 1382	not relevant		
Tumour, trauma and miscellaneous cardiac related procedures	to 1390	not relevant		
Non-cardiothoracic-vascular procedure,	to 1	12.33.52	12.33.52	Non-cardiothoracic-vascular procedure,
Non-cardiothoracic-vascular procedure on cardiac patient under cardiac anaesthesia,	to 1	12.33.53	12.33.53	Non-cardiothoracic-vascular procedure on cardiac patient under cardiac anaesthesia,
Kidney transplant,	to 1	12.33.54	12.33.52	Non-cardiothoracic-vascular procedure,
Liver transplant,	to 1	12.33.55	12.33.52	Non-cardiothoracic-vascular procedure,
1382 Pericardial procedures				
Pericardial repair & reconstruction procedures	to 1384	not relevant		
Medical management of pericardial disease	to 1385	not relevant		
Pericardial drainage,	to 1000	12.32.66	12.32.21	Cardiac procedure,
Pericardiocentesis,	to 1000	12.32.40	12.32.40	Pericardiocentesis,
Pericardial drainage: open (pericardiotomy),	to 1000	12.32.41	12.32.41	Pericardial drainage: open (pericardiotomy),
Pericardiotomy for clot removal,	to 1000	12.32.62	12.32.59	Procedure involving pericardium,
Pericardiotomy for foreign body removal,	to 1000	12.32.63	12.32.59	Procedure involving pericardium,
Pericardiocentesis: percutaneous transcatheter,	to 1000	12.32.43	12.32.43	Pericardiocentesis: percutaneous transcatheter,
Pericardial drainage tube insertion,	to 1000	12.32.44	12.32.40	Pericardiocentesis,
Pericardial window creation,	to 1000	12.32.46	12.32.46	Pericardial window creation,
Pericardiectomy,	to 1000	12.32.09	12.32.09	Pericardiectomy,
Pericardiopleural shunt creation,	to 1000	12.32.68	12.32.40	Pericardiocentesis,
Pericardiopleural shunt creation: right,	to 1000	12.32.47	12.32.40	Pericardiocentesis,
Pericardiopleural shunt creation: left,	to 1000	12.32.55	12.32.40	Pericardiocentesis,
Pericardio-peritoneal shunt creation,	to 1000	12.32.48	12.32.40	Pericardiocentesis,
Freeing adhesions of pericardium,	to 1000	12.32.49	12.32.59	Procedure involving pericardium,
Exploration of pericardium,	to 1000	12.32.52	12.32.59	Procedure involving pericardium,
Pericardial biopsy,	to 1000	12.32.53	12.32.53	Pericardial biopsy,
Pericardial biopsy: incisional,	to 1000	12.32.64	12.32.53	Pericardial biopsy,
Pericardial biopsy: excisional,	to 1000	12.32.65	12.32.53	Pericardial biopsy,
Excision of pericardial lesion,	to 1000	12.32.54	12.32.59	Procedure involving pericardium,
Pericardial cyst excision,	to 1000	12.32.58	12.32.59	Procedure involving pericardium,
Pericardial mass excision,	to 1391	12.32.60	12.32.59	Procedure involving pericardium,
Pericardial tumour excision,	to 1391	12.32.61	12.32.59	Procedure involving pericardium,
Pericardial substitute insertion into wound,	to 1608	12.32.56	12.32.59	Procedure involving pericardium,
Pericardial space exploration	to 1000	12.32.57	12.32.59	Procedure involving pericardium,
Pericardial procedure using pericardioscopic guidance,	to 1000	12.32.67	12.32.59	Procedure involving pericardium,
Procedure involving pericardium,	to 1000	12.32.59	12.32.59	Procedure involving pericardium,
1384 Pericardial repair & reconstruction procedures				
Repair of pericardium,	to 1000	12.32.51	12.32.59	Procedure involving pericardium,
Pericardial reconstruction,	to 1000	12.32.31	12.32.59	Procedure involving pericardium,
Pericardial reconstruction for congenital absence,	to 1608	12.32.32	12.32.59	Procedure involving pericardium,
Pericardial reconstruction for congenital absence with patch,	to 1608	12.32.33	12.32.59	Procedure involving pericardium,
Pericardial defect enlargement for congenital absence,	to 1000	12.32.34	12.32.59	Procedure involving pericardium,
Pericardial reconstruction for surgically created pericardial defect,	to 1608	12.32.35	12.32.59	Procedure involving pericardium,
Pericardial reconstruction for surgically created pericardial defect with patch,	to 1608	12.32.36	12.32.59	Procedure involving pericardium,
1386 Medical management of pericardial disease				
Medical management of pericardial disease,	to 1000	12.33.70	12.33.70	Medical management of pericardial disease,
Pericardial injection of therapeutic substance,	to 1000	12.32.45	12.33.70	Medical management of pericardial disease,
Pericardial injection of chemotherapeutic agent,	to 1000	12.33.71	12.33.70	Medical management of pericardial disease,
Medical management of pericardial disease: radiation therapy,	to 1000	12.33.72	12.33.70	Medical management of pericardial disease,
Medical management of pericardial disease: systemic chemotherapy,	to 1000	12.33.73	12.33.70	Medical management of pericardial disease,
Medical management of pericardial disease: systemic nonsteroidal anti-inflammatory therapy,	to 1000	12.33.74	12.33.70	Medical management of pericardial disease,
Medical management of pericardial disease: systemic steroid therapy,	to 1000	12.33.75	12.33.70	Medical management of pericardial disease,
1390 Tumour, trauma and miscellaneous cardiac related procedures				
Heart tumour biopsy,	to 3205	12.33.83	12.32.10	Heart tumour resection,
Heart tumour resection,	to 1391	12.32.10	12.32.10	Heart tumour resection,
Heart tumour resection: extracardiac tumour,	to 1391	12.33.80	12.32.10	Heart tumour resection,
Heart tumour resection: intracardiac tumour,	to 1391	12.33.81	12.32.10	Heart tumour resection,
Heart tumour resection: extracardiac & intracardiac tumour,	to 1391	12.33.82	12.32.10	Heart tumour resection,
Cardiac mass biopsy,	to 3205	12.33.84	12.32.10	Heart tumour resection,
Cardiac mass resection,	to 1391	12.33.85	12.32.10	Heart tumour resection,
Removal of cardiac vegetations,	to 3205	12.32.20	12.32.20	Removal of cardiac vegetations,
Removal of cardiac thrombus,	to 1391	12.32.22	12.32.22	Removal of cardiac thrombus,
Removal of foreign body from heart,	to 3205	12.32.24	12.32.21	Cardiac procedure,
Traumatic injury of heart or great vessel repair	to 1393	not relevant		
Procedures for extrathoracic heart (ectopia cordis)	to 1395	not relevant		
Procedures for conjoined twins	to 1395	not relevant		
Exploratory procedure to assess heart,	to 1000	12.32.03	12.32.03	Exploratory procedure to assess heart,
Post mortem examination of heart-lungs,	to 1	13.00.71	13.00.71	Post mortem examination of heart-lungs,
Cardiac procedure,	to 1	12.32.21	12.32.21	Cardiac procedure,
Peripheral vascular procedure,	to 1	12.33.51	12.33.51	Peripheral vascular procedure,
Thoracic noncardiac procedures	to 4200	not relevant		
1391 @ Tumour-mass resection qualifiers				
- biopsy,	to 3205	Q5.32.41		not relevant
- partial resection-debulking,	to 3205	Q5.32.42		not relevant
- enucleation,	to 3205	Q5.32.43		not relevant
- complete excision,	to 3205	Q5.32.44		not relevant
- subtotal excision,	to 3205	Q5.32.45		not relevant
- radical excision,	to 3205	Q5.32.46		not relevant
- tumour-mass resection technique (DESCRIBE),	to 3205	Q5.32.49		not relevant
no entry	to 3205			
1393 Traumatic injury of heart or great vessel repair				
Traumatic injury of heart repair,	to 3205	12.33.10	12.33.10	Traumatic injury of heart repair,
Traumatic injury of great vessel repair with interposition graft,	to 3205	12.33.11	12.33.10	Traumatic injury of heart repair,
Traumatic injury of great vessel repair by direct sutures,	to 3205	12.33.12	12.33.10	Traumatic injury of heart repair,
Traumatic injury of heart exploratory cardiotomy,	to 3205	12.33.13	12.33.10	Traumatic injury of heart repair,
1395 Procedures for extrathoracic heart (ectopia cordis)				
Procedure for extrathoracic heart (ectopia cordis),	to 4325	12.32.23	12.32.21	Cardiac procedure,
Extrathoracic heart (ectopia cordis) repair,	to 4325	12.33.40	12.32.21	Cardiac procedure,
Extrathoracic heart (ectopia cordis) repair: primary skin closure only,	to 4325	12.33.41	12.32.21	Cardiac procedure,
Extrathoracic heart (ectopia cordis) repair: primary closure of sternum,	to 4325	12.33.42	12.32.21	Cardiac procedure,
Extrathoracic heart (ectopia cordis) repair: primary closure of sternum & primary skin closure,	to 4325	12.33.43	12.32.21	Cardiac procedure,
Extrathoracic heart (ectopia cordis) repair using muscle flap,	to 4325	12.33.44	12.32.21	Cardiac procedure,
Extrathoracic heart (ectopia cordis) repair using sternal prosthesis,	to 4325	12.33.45	12.32.21	Cardiac procedure,
Extrathoracic heart (ectopia cordis) repair using sternal prosthesis & muscle flap,	to 4325	12.33.46	12.32.21	Cardiac procedure,
Extrathoracic heart (ectopia cordis) repair using sternal prosthesis & primary skin closure,	to 4325	12.33.47	12.32.21	Cardiac procedure,
Extrathoracic heart (ectopia cordis) repair using sternal prosthesis & skin graft,	to 4325	12.33.48	12.32.21	Cardiac procedure,

1397	Procedures for conjoined twins				
	Procedure involving conjoined twins,	to 1398	12.33.90	12.32.21	Cardiac procedure,
	Separation of conjoined twins,	to 1398	12.33.91	12.32.21	Cardiac procedure,
	Separation of conjoined twins with division of conjoined atriums,	to 1398	12.33.92	12.32.21	Cardiac procedure,
	Separation of conjoined twins with division of conjoined ventricles,	to 1398	12.33.93	12.32.21	Cardiac procedure,
	Separation of conjoined twins with division of conjoined atriums & ventricles,	to 1398	12.33.94	12.32.21	Cardiac procedure,
	Separation of conjoined twins with division of pericardial sac in setting of 2 separate hearts,	to 1398	12.33.95	12.32.21	Cardiac procedure,
1398 @	Procedures for conjoined twins - qualifiers				
	- procedure with planned sacrifice of one twin,	to 1000	Q5.32.90		not relevant
	- procedure with planned survival of both twins,	to 1000	Q5.32.91		not relevant
	no entry	to 1000	not relevant		

	End of branch				
1400	Transluminal diagnostic & interventional catheter procedures and techniques				
	Site where transcatheter procedure undertaken	to 1401	not relevant		
	Imaging modality used for guidance of transcatheter procedures	to 1402	not relevant		
	General and generic interventions using cardiac catheterisation	to 1406	not relevant		
	Approaches and techniques used during cardiovascular catheterisation	to 1407	not relevant		
	Diagnostic catheterisation and angiographic procedures	to 1410	not relevant		
	Transluminal interventional catheter procedures classified by techniques & devices	to 1500	not relevant		
	Complications relating to catheter procedures	to 2600	not relevant		
	Transluminal catheter procedures involving pulmonary & systemic veins (including venous collaterals)	to 1415	not relevant		
	Transluminal catheter procedures involving atriums and atrial septum	to 1420	not relevant		
	Transluminal catheter procedures involving transatrial tunnels (Fontan type) & hypoplastic left heart syndrome	to 1422	not relevant		
	Transluminal catheter procedures involving atrioventricular valves	to 1425	not relevant		
	Transluminal catheter procedures involving right ventricle & right ventricular outflow tract	to 1430	not relevant		
	Transluminal catheter procedures involving left ventricle & left ventricular outflow tract	to 1432	not relevant		
	Transluminal catheter procedures involving ventricular septum	to 1435	not relevant		
	Transluminal catheter procedures involving arterial valves	to 1438	not relevant		
	Transluminal catheter procedures involving pulmonary arteries	to 1442	not relevant		
	Transluminal catheter procedures involving aortopulmonary window, aorta, & systemic arteries	to 1450	not relevant		
	Transluminal catheter procedures involving systemic-to-pulmonary collateral arteries (MAPCAs)	to 1457	not relevant		
	Transluminal catheter procedures involving arteriovenous fistulas (malformations)	to 1460	not relevant		
	Transluminal catheter procedures involving the arterial duct (PDA)	to 1482	not relevant		
	Transluminal catheter procedures involving conduits & shunts	to 1485	not relevant		
	Transluminal catheter procedures for removal of thrombus or embolus	to 1487	not relevant		
	Transluminal catheter coronary arterial and fistula procedures	to 1470	not relevant		
	Electrophysiological and arrhythmia transmural procedures	to 1480	not relevant		
	Transluminal general procedures to deal with foreign bodies & catheterisation complications	to 1490	not relevant		
	Transluminal procedures to deal with vessel rupture and trauma	to 1491	not relevant		
	Pericardiocentesis: percutaneous transcatheter,	to 1000	12.32.43	12.32.43	Pericardiocentesis: percutaneous transcatheter,
	Procedure status qualifiers	to 1495	not relevant		
1401	Site where transcatheter procedure undertaken				
	Cardiovascular catheter procedure undertaken in catheter lab,	to 1402	13.05.18		No equivalent
	Cardiovascular catheter procedure undertaken in operating theatre,	to 1402	13.05.26		No equivalent
	Cardiovascular catheter procedure undertaken in hybrid suite,	to 1402	13.05.22		No equivalent
1402	Imaging modality used for guidance of transcatheter procedures				
	Transcatheter procedure undertaken with x-ray guidance,	to 1400	13.05.14	13.05.14	Transcatheter procedure undertaken with x-ray guidance,
	Transcatheter procedure undertaken with magnetic resonance imaging guidance,	to 1400	13.05.15	13.05.15	Transcatheter procedure undertaken with magnetic resonance imaging guidance,
	Transcatheter procedure undertaken with x-ray & magnetic resonance imaging guidance,	to 1400	13.05.16	13.05.16	Transcatheter procedure undertaken with x-ray & magnetic resonance imaging guidance,
	Transcatheter procedure undertaken with ultrasound guidance,	to 1400	13.05.24		No equivalent
	Transluminal intracoronary echocardiography (IVUS),	to 785	12.23.41	12.23.41	Transluminal intracoronary echocardiography (IVUS),
	Transcatheter intervention with transthoracic echo guidance,	to 1400	13.01.21	13.01.00	Echocardiographic examination,
	Transcatheter intervention with transoesophageal echo guidance,	to 1400	13.01.22	13.01.03	Transoesophageal echocardiographic examination,
	Transcatheter intervention with intravascular ultrasound (IVUS) guidance,	to 1400	13.05.25	13.01.23	Transcatheter intervention with intracardiac echo guidance (ICE),
	Transcatheter intervention with intracardiac echo guidance (ICE),	to 1400	13.01.23	13.01.23	Transcatheter intervention with intracardiac echo guidance (ICE),
	Transcatheter intervention with infrared imaging guidance,	to 1400	13.05.27		No equivalent
1406	General and generic interventions using cardiac catheterisation				
	Diagnostic cardiovascular catheterisation procedure,	to 1	13.05.01	13.05.01	Diagnostic cardiovascular catheterisation procedure,
	Cardiovascular catheter procedure,	to 1000	12.45.00	12.45.00	Cardiovascular catheter procedure,
	Therapeutic cardiovascular catheter procedure,	to 1407	12.45.28	12.45.28	Therapeutic cardiovascular catheter procedure,
	Repeat cardiovascular catheter procedure for residual or recurrent lesion,	to 1000	12.45.06	12.45.06	Repeat cardiovascular catheter procedure for residual or recurrent lesion,
	Stent placement,	to 1650	12.45.11	12.45.11	Stent placement,
	Stent redilation,	to 1663	12.45.10	12.45.10	Stent redilation,
	Stent placement within previous stent,	to 1650	12.45.53	12.45.11	Stent placement,
	Stent reimplantation,	to 1650	12.45.55	12.45.11	Stent placement,
	Balloon dilation,	to 1663	12.45.12	12.45.12	Balloon dilation,
	Transluminal device implantation,	to 1660	12.45.13	12.45.13	Transluminal device implantation,
	Cardiovascular catheterisation occlusion procedure with coil,	to 1660	12.45.14	12.45.14	Cardiovascular catheterisation occlusion procedure with coil,
	Transluminal prosthetic valve leak closure using device,	to 1660	12.45.19	12.45.19	Transluminal prosthetic valve leak closure using device,
	Balloon dilation of valve,	to 1663	12.45.21	12.45.21	Balloon dilation of valve,
	Transluminal therapeutic perforation to establish interchamber and/or intervessel communication,	to 1000	12.45.58	12.45.58	Transluminal therapeutic perforation to establish interchamber and/or intervessel communication,
	Transluminal device implantation: septal occlusion,	to 1663	12.45.22	12.45.13	Transluminal device implantation,
	Transluminal implantation of valve,	to 1619	12.45.15	12.45.15	Transluminal implantation of valve,
	Transluminal implantation of flow reduction device,	to 1660	12.45.16	12.45.13	Transluminal device implantation,
	Recanalisation of occluded vessel,	to 3205	12.45.23	12.45.00	Cardiovascular catheter procedure,
	Recanalisation of occluded vessel with balloon,	to 3205	12.45.50	12.45.58	Transluminal therapeutic perforation to establish interchamber and/or intervessel communication,
	Recanalisation of occluded vessel with balloon for procedural access,	to 3205	12.45.51	12.45.58	Transluminal therapeutic perforation to establish interchamber and/or intervessel communication,
	Recanalisation of occluded vessel with stent,	to 3205	12.45.52	12.45.58	Transluminal therapeutic perforation to establish interchamber and/or intervessel communication,
1407	Approaches and techniques used during cardiovascular catheterisation				
	Transluminal approach: percutaneous,	to 1791	12.40.07		No equivalent
	Intraoperative transcatheter open approach,	to 1791	12.40.10		No equivalent
	Transamniotic approach,	to 1791	12.40.08		No equivalent
	Hybrid approach (combined surgical & transmural),	to 1780	12.41.30	12.41.30	Hybrid approach (combined surgical & transmural),
	Catheterisation transeptal approach with transeptal puncture,	to 1000	12.45.01	12.45.01	Catheterisation transeptal approach with transeptal puncture,
	Catheterisation transeptal approach without transeptal puncture,	to 1	12.45.29	12.45.00	Cardiovascular catheter procedure,
	Transluminal diagnostic test occlusion,	to 1	12.45.07	12.45.07	Transluminal diagnostic test occlusion,
	Transluminal test occlusion of vein,	to 3220	12.45.24	12.45.07	Transluminal diagnostic test occlusion,
	Transluminal test occlusion of artery,	to 3230	12.45.25	12.45.07	Transluminal diagnostic test occlusion,
	Transluminal test occlusion of intrabulbar communication,	to 1000	12.45.26	12.45.07	Transluminal diagnostic test occlusion,
	Transluminal test occlusion of intercameral fenestration,	to 1000	12.45.27	12.45.07	Transluminal diagnostic test occlusion,
	Transluminal test occlusion of systemic-to-pulmonary arterial shunt,	to 2240	12.45.54	12.45.07	Transluminal diagnostic test occlusion,
	Transluminal procedure using adjunctive therapy,	to 1000	12.45.59	12.45.59	Transluminal procedure using adjunctive therapy,
	Transluminal procedure using adenosine adjunct,	to 1000	12.45.17	12.45.59	Transluminal procedure using adjunctive therapy,
	Transluminal procedure using rapid pacing as adjunct,	to 1000	12.45.18	12.45.59	Transluminal procedure using adjunctive therapy,
	Transluminal procedure using rapid pacing as adjunct: endocardial,	to 1318	12.45.56	12.45.59	Transluminal procedure using adjunctive therapy,
	Transluminal procedure using rapid pacing as adjunct: epicardial,	to 1315	12.45.57	12.45.59	Transluminal procedure using adjunctive therapy,
	Transluminal procedure using beta blockade as adjunct,	to 1000	12.45.20	12.45.59	Transluminal procedure using adjunctive therapy,
1410	Diagnostic catheterisation and angiographic procedures				
	Diagnostic cardiovascular catheterisation procedure,	to 1	13.05.01	13.05.01	Diagnostic cardiovascular catheterisation procedure,
	Site where transcatheter procedure undertaken	to 1401	not relevant		
	Imaging modality used for guidance of transcatheter procedures	to 1402	not relevant		
	Electrophysiological diagnostic procedures	to 1480	not relevant		
	Diagnostic right heart catheterisation,	to 1	13.05.02	13.05.01	Diagnostic cardiovascular catheterisation procedure,
	Diagnostic left heart catheterisation,	to 1	13.05.03	13.05.01	Diagnostic cardiovascular catheterisation procedure,
	Diagnostic right and left heart catheterisation,	to 1	13.05.04	13.05.01	Diagnostic cardiovascular catheterisation procedure,
	Coronary angiography,	to 1	13.05.11	13.05.05	Diagnostic cardiovascular catheterisation procedure: angiographic data obtained,
	Catheterisation transeptal approach with transeptal puncture,	to 1	12.45.01	12.45.01	Catheterisation transeptal approach with transeptal puncture,
	Catheterisation transeptal approach without transeptal puncture,	to 1	12.45.29	12.45.00	Cardiovascular catheter procedure,
	Catheterisation study for pulmonary hypertension evaluation,	to 1	13.05.13	13.05.13	Catheterisation study for pulmonary hypertension evaluation,
	Catheterisation study using near infrared spectrometric catheter,	to 1	13.05.23	13.05.13	Catheterisation study for pulmonary hypertension evaluation,
	Diagnostic cardiovascular catheterisation procedure: angiographic data obtained,	to 1	13.05.05	13.05.05	Diagnostic cardiovascular catheterisation procedure: angiographic data obtained,
	Diagnostic cardiovascular catheterisation procedure: haemodynamic data obtained,	to 1	13.05.06	13.05.06	Diagnostic cardiovascular catheterisation procedure: haemodynamic data obtained,
	Diagnostic cardiovascular catheterisation procedure with haemodynamic alteration (challenge),	to 1	13.05.07	13.05.07	Diagnostic cardiovascular catheterisation procedure with haemodynamic alteration (challenge),
	Diagnostic cardiovascular catheterisation procedure with electrophysiological alteration (challenge),	to 1	13.05.08	13.05.08	Diagnostic cardiovascular catheterisation procedure with electrophysiological alteration (challenge),

1415	Transluminal catheter procedures involving pulmonary & systemic veins (including venous collaterals)				
	Stent procedures involving pulmonary and systemic veins	to 1416	not relevant		
	Device occlusion procedures involving pulmonary & systemic veins (including venous collaterals)	to 1417	not relevant		
	Balloon dilation of pulmonary vein or pathway,	to 1663	12.00.24	12.00.24	Balloon dilation of pulmonary vein or pathway,
	Balloon dilation of pulmonary venous pathway (including post Sennig-Mustard),	to 1663	12.29.49	12.00.24	Balloon dilation of pulmonary vein or pathway,
	Balloon dilation of pulmonary vein,	to 1663	12.00.21	12.00.21	Balloon dilation of pulmonary vein,
	Balloon dilation of pulmonary vein using cutting balloon,	to 1681	12.00.23	12.00.23	Balloon dilation of pulmonary vein using cutting balloon,
	Transluminal occlusion of anomalous pulmonary vein,	to 1681	12.00.18	12.45.13	Transluminal device implantation,
	Balloon dilation of systemic vein or pathway,	to 1663	12.00.43	12.00.43	Balloon dilation of systemic vein or pathway,
	Balloon dilation of systemic vein,	to 1663	12.00.85	12.00.43	Balloon dilation of systemic vein or pathway,
	Balloon dilation of systemic venous pathway (post Sennig-Mustard),	to 1663	12.00.32	12.00.43	Balloon dilation of systemic vein or pathway,
	Balloon dilation of superior caval vein (SVC),	to 1663	12.29.46	12.00.43	Balloon dilation of systemic vein or pathway,
	Balloon dilation of inferior caval vein (IVC),	to 1663	12.29.47	12.00.43	Balloon dilation of systemic vein or pathway,
	Balloon dilation of systemic-to-pulmonary venous connection,	to 1663	12.70.50	12.00.43	Balloon dilation of systemic vein or pathway,
1416	Stent procedures involving pulmonary and systemic veins				
	Stent placement in pulmonary vein or pathway,	to 1681	12.00.25	12.00.25	Stent placement in pulmonary vein or pathway,
	Stent placement in pulmonary venous pathway (post Sennig-Mustard),	to 1650	12.29.50	12.00.25	Placement of stent in pulmonary vein or pathway,
	Stent placement in pulmonary vein,	to 1681	12.00.22	12.00.22	Stent placement in pulmonary vein,
	Redilation of stent in pulmonary vein,	to 1681	12.00.89	12.45.10	Stent redilation,
	Stent placement in systemic vein,	to 1650	12.00.86	12.00.44	Stent placement in systemic vein or pathway,
	Redilation of stent in systemic vein,	to 1665	12.00.88	12.45.10	Stent redilation,
	Stent placement in systemic vein or pathway,	to 1650	12.00.44	12.00.44	Stent placement in systemic vein or pathway,
	Stent placement in systemic venous pathway (post Sennig-Mustard),	to 1650	12.00.33	12.00.44	Placement of stent in systemic vein or pathway,
	Stent placement in superior caval vein (SVC),	to 1650	12.00.36	12.00.36	Stent placement in superior caval vein (SVC),
	Stent placement in inferior caval vein (IVC),	to 1650	12.00.41	12.00.44	Placement of stent in systemic vein or pathway,
1417	Occlusion procedures involving pulmonary & systemic veins (including venous collaterals)				
	Transluminal occlusion of systemic vein,	to 1660	12.70.31	12.45.13	Transluminal device implantation,
	Transluminal occlusion of non-caval systemic vein,	to 1660	12.00.87	12.45.13	Transluminal device implantation,
	Transluminal occlusion of right superior caval vein (SVC),	to 1660	12.29.78	12.45.13	Transluminal device implantation,
	Transluminal occlusion of left superior caval vein (SVC),	to 1660	12.29.53	12.45.13	Transluminal device implantation,
	Transluminal occlusion of systemic-to-pulmonary venous connection,	to 1663	12.70.51	12.00.43	Balloon dilation of systemic vein or pathway,
	Venous collateral occlusion with device,	to 1660	12.70.11	12.70.08	Venovenous collateral occlusion with device,
	Venovenous collateral occlusion with device,	to 1660	12.70.08	12.70.08	Venovenous collateral occlusion with device,
	Venocaval collateral occlusion with device,	to 1660	12.70.12	12.70.08	Venovenous collateral occlusion with device,
	Transluminal perforation of systemic vein,	to 3220	12.36.39	12.45.58	Transluminal therapeutic perforation to establish interchamber and/or intervessel communication,
1420	Transluminal catheter procedures involving atriums & atrial septum				
	Transluminal-catheter procedures to close interatrial communications	to 1421	not relevant		
	Procedures involving transatrial tunnels & Fontan type procedures	to 1422	not relevant		
	Balloon atrial septostomy,	to 1000	12.01.95	12.01.90	Interatrial communication creation-enlargement,
	Balloon atrial septostomy by pull back (Rashkind),	to 1000	12.01.41	12.01.41	Balloon atrial septostomy by pull back (Rashkind),
	Balloon atrial septostomy with preceding radiofrequency perforation,	to 1000	12.01.76	12.01.41	Balloon atrial septostomy by pull back (Rashkind),
	Balloon atrial septostomy with preceding needle perforation,	to 1000	12.01.77	12.01.41	Balloon atrial septostomy by pull back (Rashkind),
	Transluminal interatrial communication creation,	to 1690	12.30.74	12.30.74	Transluminal interatrial communication creation,
	Transluminal interatrial communication creation at site of oval fossa,	to 1690	12.31.92	12.30.74	Transluminal interatrial communication creation,
	Transluminal reestablishment of oval foramen,	to 1690	12.31.93	12.30.74	Transluminal interatrial communication creation,
	Transluminal interatrial communication creation: needle perforation,	to 1000	12.30.75	12.30.74	Transluminal interatrial communication creation,
	Transluminal interatrial communication creation: radiofrequency perforation,	to 1000	12.30.76	12.30.74	Transluminal interatrial communication creation,
	Interatrial communication enlargement: transluminal,	to 1690	12.30.78	12.30.74	Transluminal interatrial communication creation,
	Static balloon atrial septum dilation using cutting balloon,	to 1665	12.01.49	12.01.41	Balloon atrial septostomy by pull back (Rashkind),
	Transluminal interatrial septal baffle perforation,	to 1000	12.01.86	12.30.74	Transluminal interatrial communication creation,
	Transluminal interatrial septal baffle perforation using radiofrequency,	to 1000	12.01.77	12.30.74	Transluminal interatrial communication creation,
	Transluminal interatrial septal baffle perforation using needle,	to 1000	12.01.97	12.30.74	Transluminal interatrial communication creation,
	Stent placement in atrial septum,	to 1650	12.45.40	12.01.90	Interatrial communication creation-enlargement,
	Stent redilation in atrial septum,	to 1665	12.45.42	12.45.10	Interatrial communication creation-enlargement,
	Stent redilation in atrial baffle,	to 1665	12.45.43	12.45.10	Stent redilation,
	Blade atrial septostomy,	to 1000	12.01.44	12.01.44	Blade atrial septostomy,
	Static balloon atrial septum dilation,	to 1000	12.01.45	12.01.90	Interatrial communication creation-enlargement,
	Fenestration of interatrial patch: transluminal,	to 1650	12.30.43	12.30.74	Transluminal interatrial communication creation,
	Fenestration of interatrial patch: transluminal with stent implantation,	to 1650	12.30.49	12.30.74	Transluminal interatrial communication creation,
	Fenestration at atrial level: transluminal radiofrequency perforation,	to 1000	12.01.84	12.30.74	Transluminal interatrial communication creation,
	Fenestration at atrial level: transluminal needle perforation,	to 1000	12.01.87	12.30.74	Transluminal interatrial communication creation,
	Reduction of interatrial patch fenestration: transluminal,	to 1660	12.30.72	12.01.08	Interatrial communication closure: partial,
	Reduction of interatrial patch fenestration: transluminal with device,	to 1660	12.30.73	12.01.08	Interatrial communication closure: partial,
	Transluminal left atrial appendage occlusion with device,	to 1660	12.38.25	12.38.25	Transluminal left atrial appendage occlusion with device,
1421	Transluminal catheter procedures to close interatrial communications				
	Interatrial communication closure with transluminal device,	to 1660	12.01.98	12.01.98	Interatrial communication closure with transluminal device,
	Atrial septal defect (ASD) secundum closure with transluminal device,	to 1660	12.01.06	12.01.06	Atrial septal defect (ASD) secundum closure with transluminal device,
	Patent foramen ovale (PFO) closure with transluminal device,	to 1660	12.01.07	12.01.07	Patent foramen ovale (PFO) closure with transluminal device,
1422	Transluminal catheter procedures involving transatrial tunnels (Fontan type) & hypoplastic left heart syndrome				
	Transluminal fenestration of atrial septum-tunnel,	to 1000	12.01.47	12.01.47	Transluminal fenestration of atrial septum-tunnel,
	Transluminal fenestration of atrial septum-tunnel with stent,	to 1650	12.01.48	12.01.47	Transluminal fenestration of atrial septum-tunnel,
	Right atrial septum-tunnel fenestration closure with transluminal device,	to 1660	12.30.21	12.30.21	Right atrial septum-tunnel fenestration closure with transluminal device,
	Fenestration of Fontan type connection: transluminal,	to 1685	12.30.45	12.01.47	Transluminal fenestration of atrial septum-tunnel,
	Fenestration of Fontan type connection: transluminal with stent,	to 1685	12.30.46	12.01.47	Transluminal fenestration of atrial septum-tunnel,
	Hypoplastic left heart syndrome hybrid approach (transcatheter & surgery),	to 1000	12.20.21	12.20.21	Hypoplastic left heart syndrome hybrid approach (transcatheter & surgery),
	Application of bilateral pulmonary arterial bands & transcatheter placement of stent in arterial duct,	to 1645	12.10.04	12.10.04	Application of bilateral pulmonary arterial bands & transcatheter placement of stent in arterial duct,
	Transluminal stent implantation to Fontan type baffle,	to 1685	12.30.65	12.01.47	Transluminal fenestration of atrial septum-tunnel,
	Transluminal stent redilation in Fontan type baffle,	to 1685	12.30.66	12.45.10	Stent redilation,
	Transluminal stent implantation to fenestration of Fontan type connection,	to 1685	12.30.61	12.01.47	Transluminal fenestration of atrial septum-tunnel,
	Transluminal occlusion of Fontan type connection fenestration,	to 1685	12.30.62	12.30.21	Right atrial septum-tunnel fenestration closure with transluminal device,
	Transluminal balloon dilation of Fontan type connection fenestration,	to 1685	12.30.64	12.01.90	Interatrial communication creation-enlargement,
	Reduction of interatrial fenestration for Fontan type connection: transluminal,	to 1660	12.30.70	12.01.08	Interatrial communication closure: partial,
	Reduction of interatrial fenestration for Fontan type connection: transluminal with device,	to 1660	12.30.71	12.01.08	Interatrial communication closure: partial,
	Reduction of interatrial fenestration for Fontan type connection: crimping of stent with snare,	to 1685	12.30.80	12.01.08	Interatrial communication closure: partial,
	Completion of total cavopulmonary connection (TCPC) using transcatheter inferior to superior caval vein covered stent,	to 1650	12.30.60	12.30.60	Completion of total cavopulmonary connection (TCPC) using transcatheter inferior to superior caval vein covered stent,
1425	Transluminal catheter procedures involving atrioventricular valves				
	Balloon dilation of tricuspid valve,	to 1663	12.02.10	12.45.21	Balloon dilation of valve,
	Balloon dilation of mitral valve,	to 1663	12.03.10	12.03.10	Balloon dilation of mitral valve,
	Balloon dilation of atrioventricular valve in atrioventricular septal defect (AVSD),	to 1663	12.04.35	12.45.21	Balloon dilation of valve,
	Balloon dilation of common atrioventricular valve in atrioventricular septal defect (AVSD),	to 1663	12.04.36	12.45.21	Balloon dilation of valve,
	Balloon dilation of right atrioventricular valve in atrioventricular septal defect (AVSD),	to 1663	12.04.24	12.45.21	Balloon dilation of valve,
	Balloon dilation of left atrioventricular valve in atrioventricular septal defect (AVSD),	to 1663	12.04.44	12.03.10	Balloon dilation of mitral valve,
	Balloon dilation of right-sided atrioventricular valve in double inlet ventricle,	to 1663	12.46.04	12.45.21	Balloon dilation of valve,
	Balloon dilation of left-sided atrioventricular valve in double inlet ventricle,	to 1663	12.47.04	12.03.10	Balloon dilation of mitral valve,
	Transluminal tricuspid valve repair,	to 1496	12.02.97	12.02.00	Tricuspid valve procedure,
	Transluminal mitral valve repair,	to 1496	12.03.97	12.03.97	Transluminal mitral valve repair,
	Transluminal mitral valve replacement,	to 1619	12.03.98	12.45.15	Transluminal implantation of valve,
	Transluminal paraprosthesis tricuspid valve leak device closure,	to 1660	12.02.91	12.45.19	Transluminal prosthetic valve leak closure using device,
	Transluminal paraprosthesis mitral valve leak device closure,	to 1660	12.03.99	12.45.19	Transluminal prosthetic valve leak closure using device,
1430	Transluminal catheter procedures: right ventricle & right ventricular outflow tract				
	Transluminal right ventricular biopsy,	to 1000	12.06.25	12.06.25	Transluminal right ventricular biopsy,
	Balloon dilation of right ventricular outflow tract,	to 1663	12.06.05	12.06.05	Balloon dilation of right ventricular outflow tract,
	Balloon dilation of native right ventricular outflow tract,	to 1663	12.06.30	12.06.05	Balloon dilation of right ventricular outflow tract,
	Transluminal resection of right ventricular outflow tract: status post surgery,	to 1663	12.06.31	12.06.05	Balloon dilation of right ventricular outflow tract,
	Transluminal resection of right ventricular outflow tract muscle with rotablator,	to 1000	12.06.17	12.06.41	Right ventricular outflow tract obstruction relief,
	Stent placement in right ventricular outflow tract,	to 1650	12.06.18	12.06.18	Stent placement in right ventricular outflow tract,
	Stent placement in native right ventricular outflow tract,	to 1650	12.06.92	12.06.18	Stent placement in right ventricular outflow tract,
	Stent placement in right ventricular outflow tract: status post surgery,	to 1650	12.06.93	12.06.18	Stent placement in right ventricular outflow tract,
	Right ventricular outflow tract transluminal laser procedure,	to 1000	12.06.07	12.06.41	Right ventricular outflow tract obstruction relief,
	Transluminal laser resection of right ventricular muscle,	to 1000	12.06.23	12.06.26	Right ventricular procedure,
	Right ventricular outflow tract obstruction relief with transluminal radiofrequency & dilation,	to 1000	12.06.94	12.06.41	Right ventricular outflow tract obstruction relief,
	Right ventricular outflow tract obstruction relief with transluminal cryablation,	to 1000	12.06.97	12.06.41	Right ventricular outflow tract obstruction relief,
	Stent redilation in native right ventricular outflow tract,	to 1650	12.06.95	12.45.10	Stent redilation,
	Stent redilation in right ventricular outflow tract: status post surgery,	to 1650	12.06.96	12.45.10	Stent redilation,
1432	Transluminal catheter procedures: left ventricle & left ventricular outflow tract				
	Transluminal left ventricular biopsy,	to 1000	12.07.25	12.07.26	Left ventricular procedure,
	Balloon dilation of left ventricular outflow tract,	to 1663	12.07.07	12.07.07	Balloon dilation of left ventricular outflow tract,
	Balloon dilation of native left ventricular outflow tract,	to 1663	12.07.21	12.07.07	Balloon dilation of left ventricular outflow tract,
	Balloon dilation of left ventricular outflow tract: status post surgery,	to 1663	12.07.24	12.07.07	Balloon dilation of left ventricular outflow tract,
	Left ventricular outflow tract transluminal laser procedure,	to 1000	12.07.10	12.07.13	Left ventricular outflow tract obstruction relief,
	Transluminal laser resection of left ventricular muscle,	to 1000	12.07.23	12.07.13	Left ventricular outflow tract obstruction relief,

	Left ventricular outflow tract obstruction relief by transluminal septal radiofrequency,	to 1000	12.07.14	12.07.13	Left ventricular outflow tract obstruction relief,
	Left ventricular outflow tract obstruction relief by transluminal cryoablation,	to 1000	12.07.20	12.07.13	Left ventricular outflow tract obstruction relief,
	Left ventricular outflow tract obstruction relief by transcatheter coronary chemical ablation,	to 1292	12.07.19	12.07.19	Left ventricular outflow tract obstruction relief by transcatheter coronary chemical ablation,
1435	Transluminal catheter procedures involving ventricular septum				
	Ventricular septal defect (VSD) closure with transluminal device,	to 1660	12.08.07	12.08.07	Ventricular septal defect (VSD) closure with transluminal device,
	Transluminal fenestration of ventricular septal defect (VSD) patch,	to 1000	12.08.20	12.08.20	Transluminal fenestration of ventricular septal defect (VSD) patch,
	Muscular ventricular septal defect (VSD) closure with transluminal device,	to 1660	12.08.61	12.08.07	Ventricular septal defect (VSD) closure with transluminal device,
	Perimembranous ventricular septal defect (VSD) closure with transluminal device,	to 1660	12.08.62	12.08.07	Ventricular septal defect (VSD) closure with transluminal device,
	Intraoperative ventricular septal defect (VSD) closure with transluminal device (hybrid approach),	to 1660	12.08.28	12.08.28	Intraoperative ventricular septal defect (VSD) closure with transluminal device (hybrid approach),
	Intraoperative pericardial ventricular septal defect (VSD) closure with transluminal device (hybrid approach),	to 1660	12.08.64	12.08.28	Intraoperative ventricular septal defect (VSD) closure with transluminal device (hybrid approach),
	Transluminal interventricular communication creation,	to 1000	12.08.65	12.08.65	Transluminal interventricular communication creation,
	Transluminal interventricular communication creation: needle perforation,	to 1000	12.08.66	12.08.65	Transluminal interventricular communication creation,
	Transluminal interventricular communication creation: radiofrequency perforation,	to 1000	12.08.67	12.08.65	Transluminal interventricular communication creation,
1438	Transluminal catheter procedures involving the arterial valves				
	Balloon dilation of tricuspid valve,	to 1663	12.11.33	12.16.05	Balloon dilation of aortic valve,
	Balloon dilation of pulmonary valve,	to 1663	12.13.05	12.13.05	Balloon dilation of pulmonary valve,
	Transluminal laser pulmonary valvotomy,	to 1000	12.13.07	12.13.09	Pulmonary valvar transluminal perforation and dilation,
	Transluminal radiofrequency pulmonary valvar perforation,	to 1000	12.13.08	12.13.09	Pulmonary valvar transluminal perforation and dilation,
	Pulmonary valvar transluminal perforation and dilation,	to 1660	12.13.09	12.13.09	Pulmonary valvar transluminal perforation and dilation,
	Transluminal pulmonary valvar insertion with stent mounted valve,	to 1650	12.13.51	12.13.51	Transluminal pulmonary valvar insertion with stent mounted valve,
	Transluminal pulmonary valvar insertion with stent mounted valve: reimplant (valve in valve),	to 1650	12.13.52	12.13.51	Transluminal pulmonary valvar insertion with stent mounted valve,
	Transluminal aortic valvar insertion with stent mounted valve,	to 1650	12.13.81	12.13.81	Transluminal aortic valvar insertion with stent mounted valve,
	Transluminal aortic valvar insertion with stent mounted valve: reimplant (valve in valve),	to 1650	12.13.82	12.13.81	Transluminal aortic valvar insertion with stent mounted valve,
	Transapical aortic valve implantation (hybrid approach),	to 1650	12.13.84	12.13.84	Transapical aortic valve implantation (hybrid approach),
	Balloon dilation of aortic valve,	to 1663	12.16.05	12.16.05	Balloon dilation of aortic valve,
	Transluminal laser aortic valvotomy,	to 1000	12.16.06	12.16.25	Aortic valvar transluminal perforation and dilation,
	Transluminal radiofrequency aortic valvotomy,	to 1000	12.16.07	12.16.25	Aortic valvar transluminal perforation and dilation,
	Aortic valvar transluminal perforation and dilation,	to 1663	12.16.25	12.16.25	Aortic valvar transluminal perforation and dilation,
	Transluminal paraprosthesis pulmonary valve leak device closure,	to 1660	12.13.54	12.45.19	Transluminal prosthetic valve leak closure using device,
	Transluminal paraprosthesis aortic valve leak device closure,	to 1660	12.13.83	12.45.19	Transluminal prosthetic valve leak closure using device,
1442	Transluminal catheter procedures involving pulmonary arteries				
	Stent placement in pulmonary tree	to 1443	not relevant		
	Transluminal procedures for pulmonary emboli	to 1444	not relevant		
	Balloon dilation of pulmonary trunk,	to 1663	12.14.05	12.14.05	Balloon dilation of pulmonary trunk,
	Balloon dilation of banded pulmonary trunk,	to 1663	12.14.09	12.14.05	Balloon dilation of pulmonary trunk,
	Balloon dilation of pulmonary tree,	to 1663	12.15.00	12.14.05	Balloon dilation of pulmonary trunk,
	Balloon dilation of pulmonary tree proximal to hilar bifurcation,	to 1663	12.14.33	12.14.05	Balloon dilation of pulmonary trunk,
	Balloon dilation of pulmonary tree at or distal to hilar bifurcation,	to 1663	12.14.34	12.14.05	Balloon dilation of pulmonary trunk,
	Balloon dilation of right pulmonary artery,	to 1663	12.15.03	12.15.03	Balloon dilation of right pulmonary artery,
	Balloon dilation of right pulmonary artery proximal to hilar bifurcation,	to 1663	12.15.44	12.15.03	Balloon dilation of right pulmonary artery,
	Balloon dilation of right pulmonary artery at or distal to hilar bifurcation (lobar & segmental),	to 1663	12.15.45	12.15.03	Balloon dilation of right pulmonary artery,
	Balloon dilation of left pulmonary artery,	to 1663	12.15.04	12.15.04	Balloon dilation of left pulmonary artery,
	Balloon dilation of left pulmonary artery proximal to hilar bifurcation,	to 1663	12.15.46	12.15.04	Balloon dilation of left pulmonary artery,
	Balloon dilation of left pulmonary artery at or distal to hilar bifurcation (lobar & segmental),	to 1663	12.15.47	12.15.04	Balloon dilation of left pulmonary artery,
	Balloon dilation of central pulmonary arteries at the native pulmonary bifurcation,	to 1663	12.15.60	12.14.05	Balloon dilation of pulmonary trunk,
	Balloon dilation of pulmonary tree with cutting balloon,	to 1680	12.15.53	12.15.53	Balloon dilation of pulmonary tree with cutting balloon,
	Balloon dilation of banded right pulmonary artery,	to 1663	12.15.22	12.15.03	Balloon dilation of right pulmonary artery,
	Balloon dilation of banded left pulmonary artery,	to 1663	12.15.23	12.15.04	Balloon dilation of left pulmonary artery,
	Pulmonary trunk flow restriction using transcatheter implanted device,	to 1660	12.15.25	12.15.25	Pulmonary trunk flow restriction using transcatheter implanted device,
	Right pulmonary artery flow restriction using transcatheter implanted device,	to 1660	12.15.26	12.15.25	Pulmonary trunk flow restriction using transcatheter implanted device,
	Left pulmonary artery flow restriction using transcatheter implanted device,	to 1660	12.15.27	12.15.25	Pulmonary trunk flow restriction using transcatheter implanted device,
	Right + left pulmonary artery flow restriction using transcatheter implanted devices,	to 1660	12.15.42	12.15.25	Pulmonary trunk flow restriction using transcatheter implanted device,
	Pulmonary artery occlusion using transcatheter device,	to 1660	12.15.43	12.45.13	Transluminal device implantation,
1443	Stent placement procedures in pulmonary tree				
	Stent placement in pulmonary tree,	to 1650	12.15.50	12.15.50	Stent placement in pulmonary tree,
	Stent placement in pulmonary tree proximal to hilar bifurcation,	to 1650	12.15.54	12.15.50	Stent placement in pulmonary tree,
	Stent placement in pulmonary tree at or distal to hilar bifurcation,	to 1650	12.15.55	12.15.50	Stent placement in pulmonary tree,
	Stent placement in pulmonary trunk,	to 1650	12.15.15	12.15.50	Stent placement in pulmonary tree,
	Stent placement in right pulmonary artery,	to 1650	12.15.13	12.15.13	Stent placement in right pulmonary artery,
	Stent placement in right pulmonary artery proximal to hilar bifurcation,	to 1650	12.15.56	12.15.13	Stent placement in right pulmonary artery,
	Stent placement in right pulmonary artery at or distal to hilar bifurcation (lobar & segmental),	to 1650	12.15.57	12.15.13	Stent placement in right pulmonary artery,
	Stent adjustment procedure in pulmonary tree,	to 1680	12.15.68	12.45.28	Therapeutic cardiovascular catheter procedure,
	Stent redilation in right pulmonary artery proximal to hilar bifurcation,	to 1650	12.15.64	12.45.10	Stent redilation,
	Stent redilation in right pulmonary artery at or distal to hilar bifurcation (lobar & segmental),	to 1650	12.15.65	12.45.10	Stent redilation,
	Stent placement in left pulmonary artery,	to 1650	12.15.14	12.15.14	Stent placement in left pulmonary artery,
	Stent placement in left pulmonary artery proximal to hilar bifurcation,	to 1650	12.15.58	12.15.14	Stent placement in left pulmonary artery,
	Stent placement in left pulmonary artery at or distal to hilar bifurcation (lobar & segmental),	to 1650	12.15.59	12.15.14	Stent placement in left pulmonary artery,
	Stent redilation in left pulmonary artery proximal to hilar bifurcation,	to 1650	12.15.66	12.45.10	Stent redilation,
	Stent redilation in left pulmonary artery at or distal to hilar bifurcation (lobar & segmental),	to 1650	12.15.67	12.45.10	Stent redilation,
	Stent placement in central pulmonary arteries at the native pulmonary bifurcation,	to 1650	12.15.62	12.15.50	Stent placement in pulmonary tree,
1444	Transluminal procedures for pulmonary emboli				
	Transluminal embolectomy from pulmonary tree,	to 1000	12.15.49	12.15.49	Transluminal embolectomy from pulmonary tree,
	Transluminal embolectomy from pulmonary trunk using basket,	to 1000	12.15.33	12.15.49	Transluminal embolectomy from pulmonary tree,
	Transluminal embolectomy from right pulmonary artery using basket,	to 1000	12.15.34	12.15.49	Transluminal embolectomy from pulmonary tree,
	Transluminal embolectomy from left pulmonary artery using basket,	to 1000	12.15.35	12.15.49	Transluminal embolectomy from pulmonary tree,
	Transluminal embolectomy from pulmonary trunk using snare,	to 1000	12.15.36	12.15.49	Transluminal embolectomy from pulmonary tree,
	Transluminal embolectomy from right pulmonary artery using snare,	to 1000	12.15.37	12.15.49	Transluminal embolectomy from pulmonary tree,
	Transluminal embolectomy from left pulmonary artery using snare,	to 1000	12.15.38	12.15.49	Transluminal embolectomy from pulmonary tree,
	Transluminal fragmentation of pulmonary trunk embolus,	to 1000	12.15.39	12.15.49	Transluminal embolectomy from pulmonary tree,
	Transluminal fragmentation of right pulmonary artery embolus,	to 1000	12.15.40	12.15.49	Transluminal embolectomy from pulmonary tree,
	Transluminal fragmentation of left pulmonary artery embolus,	to 1000	12.15.41	12.15.49	Transluminal embolectomy from pulmonary tree,
	Transluminal procedures for removing thrombus	to 1467	not relevant		
1450	Transluminal catheter procedures involving AP window, aorta & systemic arteries				
	Aortic aneurysm transcatheter procedures (including stent placement)	to 1455	not relevant		
	Stent procedures involving aorta and other systemic arteries	to 1451	not relevant		
	Aortopulmonary window closure with transcatheter device,	to 1660	12.12.08	12.12.08	Aortopulmonary window closure with transcatheter device,
	Balloon dilation of systemic artery,	to 1663	12.22.11	12.22.00	Systemic arterial procedure,
	Aortic coarctation transluminal obstruction relief,	to 1000	12.18.27	12.18.27	Aortic coarctation transluminal obstruction relief,
	Balloon dilation of aortic coarctation-hypoplasia,	to 1663	12.18.40	12.18.27	Aortic coarctation transluminal obstruction relief,
	Balloon dilation of thoracic aortic coarctation-hypoplasia,	to 1663	12.18.28	12.18.27	Aortic coarctation transluminal obstruction relief,
	Balloon dilation of abdominal aortic coarctation-hypoplasia,	to 1663	12.18.41	12.18.27	Aortic coarctation transluminal obstruction relief,
	Balloon dilation of native aortic coarctation-hypoplasia,	to 1663	12.18.04	12.18.04	Balloon dilation of native aortic coarctation-hypoplasia,
	Balloon dilation of native thoracic aortic coarctation-hypoplasia,	to 1663	12.18.42	12.18.04	Balloon dilation of native aortic coarctation-hypoplasia,
	Balloon dilation of native abdominal aortic coarctation-hypoplasia,	to 1663	12.18.43	12.18.04	Balloon dilation of native aortic coarctation-hypoplasia,
	Balloon dilation of aortic recoarctation,	to 1663	12.18.08	12.18.08	Balloon dilation of aortic recoarctation,
	Balloon dilation of thoracic aortic recoarctation,	to 1663	12.18.44	12.18.08	Balloon dilation of aortic recoarctation,
	Balloon dilation of abdominal aortic recoarctation,	to 1663	12.18.45	12.18.08	Balloon dilation of aortic recoarctation,
	Transluminal radiofrequency perforation and dilation of aortic isthmus atresia,	to 1663	12.18.65	12.45.58	Transluminal therapeutic perforation to establish interchamber and/or intervessel communication,
	Transluminal perforation of systemic artery,	to 3230	12.36.38	12.45.58	Transluminal therapeutic perforation to establish interchamber and/or intervessel communication,
1451	Stent procedures involving aorta and other systemic arteries				
	Stent placement in systemic artery,	to 1650	12.22.12	12.45.11	Stent placement,
	Stent redilation in systemic artery,	to 1665	12.22.13	12.45.10	Stent redilation,
	Stent reimplantation in systemic artery,	to 1665	12.18.56	12.45.11	Stent placement,
	Stent placement at site of aortic coarctation,	to 1650	12.18.17	12.18.17	Stent placement at site of aortic coarctation,
	Stent placement at site of thoracic aortic coarctation,	to 1650	12.18.46	12.18.17	Stent placement at site of aortic coarctation,
	Stent placement at site of abdominal aortic coarctation,	to 1650	12.18.47	12.18.17	Stent placement at site of aortic coarctation,
	Stent placement at site of native aortic coarctation-hypoplasia,	to 1650	12.18.48	12.18.48	Stent placement at site of native aortic coarctation-hypoplasia,
	Stent placement at site of native thoracic aortic coarctation-hypoplasia,	to 1650	12.18.49	12.18.48	Stent placement at site of native aortic coarctation,
	Stent placement at site of native abdominal aortic coarctation-hypoplasia,	to 1650	12.18.50	12.18.48	Stent placement at site of native aortic coarctation,
	Stent placement at site of aortic recoarctation,	to 1650	12.18.22	12.18.22	Stent placement at site of aortic recoarctation,
	Stent placement at site of thoracic aortic recoarctation,	to 1650	12.18.51	12.18.22	Stent placement at site of aortic recoarctation,
	Stent placement at site of abdominal aortic recoarctation,	to 1650	12.18.52	12.18.22	Stent placement at site of aortic recoarctation,
	Stent redilation in aorta,	to 1665	12.18.53	12.45.10	Stent redilation,
	Stent redilation in thoracic aorta,	to 1665	12.18.54	12.45.10	Stent redilation,
	Stent redilation in abdominal aorta,	to 1665	12.18.55	12.45.10	Stent redilation,
1455	Aortic aneurysm transcatheter procedures				
	Thoracic aorta aneurysm transcatheter stent implantation,	to 1650	12.18.70	12.18.70	Thoracic aorta aneurysm transcatheter stent implantation,
	Ascending aorta aneurysm transcatheter stent implantation,	to 1650	12.18.71	12.18.70	Thoracic aorta aneurysm transcatheter stent implantation,
	Aortic arch aneurysm transcatheter stent implantation,	to 1650	12.18.72	12.18.70	Thoracic aorta aneurysm transcatheter stent implantation,
	Descending aorta aneurysm transcatheter stent implantation,	to 1650	12.18.73	12.18.70	Thoracic aorta aneurysm transcatheter stent implantation,
	Thoraco-abdominal aortic aneurysm transcatheter stent implantation,	to 1650	12.18.74	12.18.70	Thoracic aorta aneurysm transcatheter stent implantation,

Abdominal aorta aneurysm transcatheter stent implantation,	to 1650	12.18.75	12.45.11	Stent placement,
Aortic aneurysm transcatheter coil occlusion,	to 699	12.18.76	12.45.14	Cardiovascular catheterisation occlusion procedure with coil,
Aortic false (pseudo) aneurysm transcatheter coil occlusion,	to 699	12.18.77	12.45.14	Cardiovascular catheterisation occlusion procedure with coil,
1457 Transluminal catheter procedures involving systemic-to-pulmonary collateral arteries (MAPCAs)				
Transluminal procedure to systemic-to-pulmonary collateral artery(ies) (MAPCA(s)),	to 1212	12.25.19	12.25.19	Transluminal procedure to systemic-to-pulmonary collateral artery (MAPCA(s)),
Transluminal occlusion of systemic-to-pulmonary collateral artery(ies) (MAPCA(s)) with coil-device,	to 1212	12.25.65	12.25.65	Transluminal occlusion of systemic-to-pulmonary collateral artery(ies) (MAPCA(s)) with coil-device,
Transluminal occlusion of right systemic-to-pulmonary collateral artery(ies) (MAPCA(s)) with coil-device,	to 1212	12.25.23	12.25.65	Transluminal occlusion of systemic-to-pulmonary collateral artery(ies) (MAPCA(s)) with coil-device,
Transluminal occlusion of left systemic-to-pulmonary collateral artery(ies) (MAPCA(s)) with coil-device,	to 1212	12.25.26	12.25.65	Transluminal occlusion of systemic-to-pulmonary collateral artery(ies) (MAPCA(s)) with coil-device,
Balloon dilation of systemic-to-pulmonary collateral artery(ies) (MAPCA(s)),	to 1212	12.25.72	12.25.72	Balloon dilation of systemic-to-pulmonary collateral artery(ies) (MAPCA(s)),
Balloon dilation of right systemic-to-pulmonary collateral artery(ies) (MAPCA(s)),	to 1212	12.25.60	12.25.72	Balloon dilation of systemic-to-pulmonary collateral artery(ies) (MAPCA(s)),
Balloon dilation of left systemic-to-pulmonary collateral artery(ies) (MAPCA(s)),	to 1212	12.25.61	12.25.72	Balloon dilation of systemic-to-pulmonary collateral artery(ies) (MAPCA(s)),
Stent placement in systemic-to-pulmonary collateral artery(ies) (MAPCA(s)),	to 1212	12.25.62	12.25.62	Stent placement in systemic-to-pulmonary collateral artery (MAPCA(s)),
Stent placement in right systemic-to-pulmonary collateral artery(ies) (MAPCA(s)),	to 1212	12.25.20	12.25.62	Stent placement in systemic-to-pulmonary collateral artery (MAPCA(s)),
Stent placement in left systemic-to-pulmonary collateral artery(ies) (MAPCA(s)),	to 1212	12.25.29	12.25.62	Stent placement in systemic-to-pulmonary collateral artery (MAPCA(s)),
Stent redilation in systemic-to-pulmonary collateral artery(ies) (MAPCA(s)),	to 1212	12.25.69	12.45.10	Stent redilation,
Stent redilation in right systemic-to-pulmonary collateral artery(ies) (MAPCA(s)),	to 1212	12.25.70	12.45.10	Stent redilation,
Stent redilation in left systemic-to-pulmonary collateral artery(ies) (MAPCA(s)),	to 1212	12.25.71	12.45.10	Stent redilation,
Transcatheter bronchopulmonary collateral occlusion with device,	to 1212	12.70.09	12.45.13	Transluminal device implantation,
1460 Transluminal catheter procedures involving arteriovenous fistulas (malformations)				
Arteriovenous fistula occlusion,	to 1660	12.25.02	12.25.02	Arteriovenous fistula occlusion,
Pulmonary arteriovenous fistula occlusion,	to 1660	12.25.08	12.25.07	Pulmonary arteriovenous fistula closure,
Systemic arteriovenous fistula occlusion,	to 1660	12.25.12	12.25.02	Arteriovenous fistula occlusion,
Cerebral arteriovenous fistula occlusion,	to 1660	12.25.04	12.25.02	Arteriovenous fistula occlusion,
Hepatic arteriovenous fistula occlusion,	to 1660	12.25.06	12.25.02	Arteriovenous fistula occlusion,
Peripheral arteriovenous fistula occlusion,	to 1660	12.25.10	12.25.02	Arteriovenous fistula occlusion,
1462 Transluminal catheter procedures involving the arterial duct (PDA)				
Arterial duct (PDA) closure with transluminal device,	to 1660	12.24.04	12.24.04	Arterial duct (PDA) closure with transluminal device,
Arterial duct (PDA) closure with transluminal coil,	to 1660	12.24.21	12.24.21	Arterial duct (PDA) closure with transluminal coil,
Arterial duct (PDA) closure with transluminal plug device,	to 1660	12.24.22	12.24.22	Arterial duct (PDA) closure with transluminal Amplatzer plug,
Stent placement in arterial duct (PDA),	to 1650	12.10.14	12.10.14	Stent placement in arterial duct (PDA),
Stent redilation in arterial duct (PDA),	to 1665	12.10.26	12.45.10	Stent redilation,
Balloon dilation of arterial duct (PDA),	to 1663	12.10.15	12.24.00	Arterial duct-ligament procedure,
1465 Transluminal catheter procedures involving conduits & shunts				
Transluminal test occlusion of systemic-to-pulmonary arterial shunt,	to 2240	12.45.54	12.45.07	Transluminal diagnostic test occlusion,
Balloon dilation of systemic-to-pulmonary arterial shunt,	to 2240	12.31.19	12.31.19	Balloon dilation of systemic-to-pulmonary arterial shunt,
Balloon dilation of banded systemic-to-pulmonary arterial shunt,	to 2240	12.31.26	12.31.19	Balloon dilation of systemic-to-pulmonary arterial shunt,
Balloon dilation of cardiac conduit,	to 2240	12.36.14	12.36.14	Balloon dilation of cardiac conduit,
Balloon dilation of right ventricle to pulmonary arterial conduit,	to 1663	12.36.27	12.36.14	Balloon dilation of cardiac conduit,
Balloon dilation of cardiac conduit valve,	to 2240	12.36.26	12.36.14	Balloon dilation of cardiac conduit,
Stent placement in systemic-to-pulmonary arterial shunt,	to 2240	12.31.27	12.36.23	Stent placement in cardiac conduit,
Stent placement in cardiac conduit,	to 2240	12.36.23	12.36.23	Stent placement in cardiac conduit,
Stent placement in right ventricle to pulmonary arterial conduit,	to 1650	12.36.28	12.36.23	Stent placement in cardiac conduit,
Stent with premounted valve placement in cardiac conduit,	to 2240	12.36.25	12.36.23	Stent placement in cardiac conduit,
Stent redilation in systemic-to-pulmonary arterial shunt,	to 2240	12.36.34	12.45.10	Stent redilation,
Stent redilation in cardiac conduit,	to 2240	12.36.32	12.45.10	Stent redilation,
Stent redilation in right ventricle to pulmonary arterial conduit,	to 1665	12.36.33	12.45.10	Stent redilation,
Transluminal perforation and dilation of cardiac conduit,	to 2240	12.36.36	12.45.58	Transluminal therapeutic perforation to establish interchamber and/or intervessel communication,
Transluminal perforation and dilation of systemic-to-pulmonary arterial shunt,	to 2240	12.36.37	12.45.58	Transluminal therapeutic perforation to establish interchamber and/or intervessel communication,
Occlusion of systemic-to-pulmonary arterial shunt by transluminal device-embolus,	to 1660	12.31.34	12.31.34	Occlusion of systemic-to-pulmonary arterial shunt by transluminal device-embolus,
1467 Transluminal procedures for removal of thrombus or embolus				
Transluminal procedure for removal of thrombus,	to 3205	12.49.00	12.45.28	Therapeutic cardiovascular catheter procedure,
Transluminal procedure for removal of thrombus using basket,	to 3205	12.49.01	12.45.28	Therapeutic cardiovascular catheter procedure,
Transluminal procedure for removal of thrombus using snare,	to 3205	12.49.02	12.45.28	Therapeutic cardiovascular catheter procedure,
Transluminal procedure for removal of thrombus using suction,	to 3205	12.49.03	12.45.28	Therapeutic cardiovascular catheter procedure,
Transluminal procedure for maceration of thrombus,	to 3205	12.49.06	12.45.28	Therapeutic cardiovascular catheter procedure,
Transluminal procedure for maceration of thrombus using saline jet,	to 3205	12.49.07	12.45.28	Therapeutic cardiovascular catheter procedure,
Transluminal procedure for maceration of thrombus using mechanical rotator device,	to 3205	12.49.04	12.45.28	Therapeutic cardiovascular catheter procedure,
Transluminal procedure for removal of thrombus using local thrombolytic drug,	to 3205	12.49.05	12.45.28	Therapeutic cardiovascular catheter procedure,
Transluminal procedure for removal of embolus,	to 3205	12.49.08	12.45.28	Therapeutic cardiovascular catheter procedure,
Transluminal procedure for removal of embolus using basket,	to 3205	12.49.09	12.45.28	Therapeutic cardiovascular catheter procedure,
Transluminal procedure for removal of embolus using snare,	to 3205	12.49.10	12.45.28	Therapeutic cardiovascular catheter procedure,
Transluminal procedure for removal of embolus using suction,	to 3205	12.49.11	12.45.28	Therapeutic cardiovascular catheter procedure,
Transluminal procedure for maceration of embolus,	to 3205	12.49.12	12.45.28	Therapeutic cardiovascular catheter procedure,
Transluminal procedure for maceration of embolus using saline jet,	to 3205	12.49.13	12.45.28	Therapeutic cardiovascular catheter procedure,
Transluminal procedure for maceration of embolus using mechanical rotator device,	to 3205	12.49.14	12.45.28	Therapeutic cardiovascular catheter procedure,
1470 Transluminal catheter coronary arterial and fistula procedures				
Coronary arterial fistula transluminal occlusion,	to 1660	12.23.13	12.23.13	Coronary arterial fistula transluminal occlusion,
Transluminal intracoronary injection of thrombolytic agent,	to 1292	12.23.30	12.23.30	Transluminal intracoronary injection of thrombolytic agent,
Transluminal balloon coronary angioplasty (PTCA),	to 1292	12.23.31	12.23.31	Transluminal balloon coronary angioplasty (PTCA),
Transluminal balloon angioplasty (PTCA) of multiple coronary arts,	to 1292	12.23.32	12.23.31	Transluminal balloon coronary angioplasty (PTCA),
Transluminal balloon angioplasty (PTCA) of coronary artery bypass graft (CABG),	to 1292	12.23.33	12.23.31	Transluminal balloon coronary angioplasty (PTCA),
Transluminal balloon coronary angioplasty (PTCA) using cutting balloon,	to 1292	12.23.43	12.23.31	Transluminal balloon coronary angioplasty (PTCA),
Transluminal laser coronary angioplasty,	to 1292	12.23.34	12.23.09	Coronary arterial procedure,
Transluminal directional coronary atherectomy,	to 1292	12.23.35	12.23.09	Coronary arterial procedure,
Transluminal low speed rotational coronary atherectomy,	to 1292	12.23.36	12.23.09	Coronary arterial procedure,
Transluminal high speed rotational coronary atherectomy (Rotablator),	to 1292	12.23.37	12.23.09	Coronary arterial procedure,
Transluminal coronary stent implantation,	to 1292	12.23.38	12.23.38	Transluminal coronary stent implantation,
Transluminal 'ball out' coronary stent implantation,	to 1292	12.23.39	12.23.38	Transluminal coronary stent implantation,
Transluminal coronary angioplasty,	to 1000	12.23.40	13.05.01	Diagnostic cardiovascular catheterisation procedure,
Transluminal intracoronary echocardiography (IVUS),	to 1000	12.23.41	12.23.41	Transluminal intracoronary echocardiography (IVUS),
Transluminal chemical occlusion of coronary artery,	to 1000	12.23.42	12.23.42	Transluminal chemical occlusion of coronary artery,
Transluminal chemical occlusion of coronary artery using alcohol,	to 1000	12.23.44	12.23.42	Transluminal chemical occlusion of coronary artery,
Left ventricular outflow tract obstruction relief by transcatheter coronary chemical ablation,	to 1292	12.07.19	12.07.19	Left ventricular outflow tract obstruction relief by transcatheter coronary chemical ablation,
1480 Electrophysiological and arrhythmia transluminal procedures				
Electrophysiological study (EPS),	to 1483	13.05.12	13.05.12	Electrophysiological study (EPS),
Electrophysiological study (EPS) with three dimensional mapping,	to 1483	13.05.17	13.05.17	Electrophysiological study (EPS) with three dimensional mapping,
Electrophysiological study (EPS) with three dimensional electroanatomic mapping,	to 1483	13.05.20	13.05.17	Electrophysiological study (EPS) with three dimensional mapping,
Electrophysiological study (EPS) with three dimensional non-contact endocardial mapping,	to 1483	13.05.21	13.05.17	Electrophysiological study (EPS) with three dimensional mapping,
Transluminal procedure for arrhythmia,	to 1000	12.35.57	12.35.57	Transluminal procedure for arrhythmia,
Transluminal procedure for ventricular arrhythmia,	to 880	12.35.82	12.35.82	Transluminal procedure for ventricular arrhythmia,
Transluminal ablation procedures for arrhythmias	to 1481	not relevant	12.35.83	Transluminal procedure for ventricular arrhythmia,
Implantable cardioverter & defibrillator (ICD) transluminal implantation procedures	to 1310	not relevant		
1481 Transluminal ablation procedures for arrhythmias				
Transluminal ablation procedure for arrhythmia,	to 800	12.38.40	12.38.40	Transluminal ablation procedure for arrhythmia,
Transluminal ablation procedure with pulmonary vein exclusion,	to 880	12.35.84	12.35.84	Transluminal ablation procedure with pulmonary vein exclusion,
Transluminal ablation procedure with pulmonary vein exclusion: pulmonary vein antrum isolation,	to 800	12.38.23	12.35.84	Transluminal ablation procedure with pulmonary vein exclusion,
Transluminal ablation procedure with pulmonary vein exclusion: circumferential procedure,	to 800	12.38.24	12.35.84	Transluminal ablation procedure with pulmonary vein exclusion,
Transluminal ablation procedure using minmaze (linear lines) technique,	to 800	12.38.26	12.35.84	Transluminal ablation procedure with pulmonary vein exclusion,
Transluminal radiofrequency ablation procedure for arrhythmia,	to 1485	12.35.48	12.35.48	Transluminal radiofrequency ablation procedure for arrhythmia,
Transluminal radiofrequency ablation procedure for atrial arrhythmia,	to 880	12.38.27	12.35.48	Transluminal radiofrequency ablation procedure for arrhythmia,
Transluminal radiofrequency ablation procedure for ventricular arrhythmia,	to 883	12.38.28	12.35.48	Transluminal radiofrequency ablation procedure for arrhythmia,
Transluminal cryoablation procedure for arrhythmia,	to 880	12.35.46	12.35.46	Transluminal cryoablation procedure for arrhythmia,
Transluminal laser ablation procedure for arrhythmia,	to 880	12.35.47	12.38.40	Transluminal ablation procedure for arrhythmia,
Transluminal microwave ablation procedure for arrhythmia,	to 880	12.38.20	12.38.40	Transluminal ablation procedure for arrhythmia,
1483 @ Electrophysiological study qualifiers				
- with image integration,	to 1	Q1.29.01	not relevant	
- without image integration,	to 1	Q1.29.02	not relevant	
- with magnetic (stereotactic) navigation,	to 1	Q1.29.03	not relevant	
- without magnetic (stereotactic) navigation,	to 1	Q1.29.04	not relevant	
- with image integration & magnetic (stereotactic) navigation,	to 1	Q1.29.05	not relevant	
no entry	to 1	not relevant		
1485 @ Transluminal arrhythmia procedure qualifiers				
- with irrigated tip,	to 880	Q5.36.21	not relevant	
- without irrigated tip,	to 880	Q5.36.22	not relevant	
no entry	to 880			

1490 Transluminal general procedures to deal with foreign bodies & catheterisation complications

Transluminal procedure for catheterisation complication,	to 1000	12.45.30	12.45.30	Transluminal procedure for catheterisation complication,
Transluminal procedures to deal with vessel rupture and trauma	to 1491	not relevant		
Transluminal retrieval of device or foreign body,	to 1000	12.45.04	12.45.04	Transluminal retrieval of device or foreign body,
Transluminal retrieval of device or foreign body using snare,	to 1000	12.45.02	12.45.04	Transluminal retrieval of device or foreign body,
Transluminal retrieval of device or foreign body using basket,	to 1000	12.45.03	12.45.04	Transluminal retrieval of device or foreign body,
Transluminal retrieval of device or foreign body using 'grabber' forceps,	to 1000	12.45.05	12.45.04	Transluminal retrieval of device or foreign body,
Stent expanded in unplanned site after migration or embolisation,	to 1650	12.45.34	12.45.30	Transluminal procedure for catheterisation complication,
Recanalisation of vessel jailed by stent,	to 3205	12.45.44	12.45.30	Transluminal procedure for catheterisation complication,
Removal of stent from body,	to 1650	12.45.31	12.45.30	Transluminal procedure for catheterisation complication,
Removal of device from body,	to 1660	12.45.32	12.45.30	Transluminal procedure for catheterisation complication,
Removal of device from body: surgical,	to 1660	12.45.45	12.45.30	Transluminal procedure for catheterisation complication,
Removal of coil from body,	to 1661	12.45.33	12.45.30	Transluminal procedure for catheterisation complication,

1491 Transluminal procedures to deal with vessel rupture and trauma

Stent placement for vessel trauma,	to 1650	12.45.35	12.45.30	Transluminal procedure for catheterisation complication,
Coil placement for vessel trauma,	to 1661	12.45.36	12.45.30	Transluminal procedure for catheterisation complication,
Temporary sealing of vessel rupture or perforation with transluminal balloon,	to 3205	12.45.37	12.45.28	Therapeutic cardiovascular catheter procedure,
Temporary sealing of vessel rupture or perforation with covered stent,	to 3205	12.45.38	12.45.28	Therapeutic cardiovascular catheter procedure,
Permanent sealing of vessel rupture or perforation with covered stent,	to 3205	12.45.39	12.45.28	Therapeutic cardiovascular catheter procedure,

1495 @ Procedure status qualifiers

- first procedure,	to 1000	Q5.51.21		not relevant
- second procedure,	to 1000	Q5.51.22		not relevant
- third procedure,	to 1000	Q5.51.23		not relevant
- third procedure or more,	to 1000	Q5.51.24		not relevant
- fourth procedure,	to 1000	Q5.51.25		not relevant
no entry	to 1000	not relevant		

1496 @ Transcatheter valve repair procedure qualifiers

- with clip,	to 1000	Q5.51.01		not relevant
- with suture,	to 1000	Q5.51.02		not relevant
no entry	to 1000	not relevant		

_____ End of branch _____

1500 Transluminal interventional catheter procedures classified by techniques

Balloon dilation procedures	to 1502	not relevant		
Transluminal procedures involving stents	to 1505	not relevant		
Transluminal procedures involving device implantation	to 1509	not relevant		
Transluminal procedures involving valve implantation and repair	to 1515	not relevant		
Transluminal procedures involving valve, artery and septal perforation	to 1517	not relevant		
Transluminal ablation procedures for arrhythmias	to 1481	not relevant		
Transluminal procedures involving non-arrhythmia related ablation techniques	to 1519	not relevant		

1502 Balloon dilation procedures

Balloon dilation,	to 1663	12.45.12	12.45.12	Balloon dilation,
Balloon dilation procedures with preceding perforation	to 1517	not relevant		
Balloon dilation procedures involving systemic & pulmonary veins (including venous collaterals)	to 1415	not relevant		
Balloon dilation procedures involving cardiac valves	to 1503	not relevant		
Balloon dilation of pulmonary arterial tree	to 1442	not relevant		
Balloon dilation procedures of the aorta and other systemic arteries	to 1450	not relevant		
Balloon dilation procedures involving conduits & shunts	to 1465	not relevant		
Balloon dilation procedures involving coronary arteries	to 1470	not relevant		
Balloon atrial septostomy,	to 1000	12.01.95	12.01.90	Interatrial communication creation-enlargement,
Balloon atrial septostomy by pull back (Rashkind),	to 1000	12.01.41	12.01.41	Balloon atrial septostomy by pull back (Rashkind),
Static balloon atrial septum dilation using cutting balloon,	to 1665	12.01.49	12.01.41	Balloon atrial septostomy by pull back (Rashkind),
Static balloon atrial septum dilation,	to 1000	12.01.45	12.01.90	Interatrial communication creation-enlargement,
Transluminal balloon dilation of Fontan type connection fenestration,	to 1685	12.30.64	12.01.90	Interatrial communication creation-enlargement,
Balloon dilation of right ventricular outflow tract,	to 1663	12.06.05	12.06.05	Balloon dilation of right ventricular outflow tract,
Balloon dilation of native right ventricular outflow tract,	to 1663	12.06.90	12.06.05	Balloon dilation of right ventricular outflow tract,
Balloon dilation of right ventricular outflow tract: status post surgery,	to 1663	12.06.91	12.06.05	Balloon dilation of right ventricular outflow tract,
Balloon dilation of left ventricular outflow tract,	to 1663	12.07.07	12.07.07	Balloon dilation of left ventricular outflow tract,
Balloon dilation of native left ventricular outflow tract,	to 1663	12.07.21	12.07.07	Balloon dilation of left ventricular outflow tract,
Balloon dilation of left ventricular outflow tract: status post surgery,	to 1663	12.07.24	12.07.07	Balloon dilation of left ventricular outflow tract,
Balloon dilation of systemic-to-pulmonary collateral artery(ies) (MAPCA(s)),	to 1212	12.25.72	12.25.72	Balloon dilation of systemic-to-pulmonary collateral artery(ies) (MAPCA(s)),
Balloon dilation of right systemic-to-pulmonary collateral artery(ies) (MAPCA(s)),	to 1212	12.25.60	12.25.72	Balloon dilation of systemic-to-pulmonary collateral artery(ies) (MAPCA(s)),
Balloon dilation of left systemic-to-pulmonary collateral artery(ies) (MAPCA(s)),	to 1212	12.25.61	12.25.72	Balloon dilation of systemic-to-pulmonary collateral artery(ies) (MAPCA(s)),
Balloon dilation of arterial duct (PDA),	to 1663	12.10.15	12.24.00	Arterial duct-ligament procedure,
Recanalisation of occluded vessel with balloon,	to 3205	12.45.50	12.45.58	Transluminal therapeutic perforation to establish interchamber and/or intervessel communication,
Recanalisation of occluded vessel with balloon for procedural access,	to 3205	12.45.51	12.45.58	Transluminal therapeutic perforation to establish interchamber and/or intervessel communication,

1503 Balloon dilation procedures involving cardiac valves

Balloon dilation of valve,	to 1663	12.45.21	12.45.21	Balloon dilation of valve,
Balloon dilation of tricuspid valve,	to 1663	12.02.10	12.45.21	Balloon dilation of valve,
Balloon dilation of mitral valve,	to 1663	12.03.10	12.03.10	Balloon dilation of mitral valve,
Balloon dilation of atrioventricular valve in atrioventricular septal defect (AVSD),	to 1663	12.04.35	12.45.21	Balloon dilation of valve,
Balloon dilation of common atrioventricular valve in atrioventricular septal defect (AVSD),	to 1663	12.04.36	12.45.21	Balloon dilation of valve,
Balloon dilation of right atrioventricular valve in atrioventricular septal defect (AVSD),	to 1663	12.04.24	12.45.21	Balloon dilation of valve,
Balloon dilation of left atrioventricular valve in atrioventricular septal defect (AVSD),	to 1663	12.04.44	12.03.10	Balloon dilation of mitral valve,
Balloon dilation of right-sided atrioventricular valve in double inlet ventricle,	to 1663	12.46.04	12.45.21	Balloon dilation of valve,
Balloon dilation of left-sided atrioventricular valve in double inlet ventricle,	to 1663	12.47.04	12.03.10	Balloon dilation of mitral valve,
Balloon dilation of truncal valve,	to 1663	12.11.33	12.16.05	Balloon dilation of aortic valve,
Balloon dilation of pulmonary valve,	to 1663	12.13.05	12.13.05	Balloon dilation of pulmonary valve,
Balloon dilation of aortic valve,	to 1663	12.16.05	12.16.05	Balloon dilation of aortic valve,

1505 Transluminal cardiovascular procedures involving stents

Stent placement,	to 1650	12.45.11	12.45.11	Stent placement,
Stent placement within previous stent,	to 1650	12.45.33	12.45.11	Stent placement,
Stent reimplantation,	to 1650	12.45.55	12.45.11	Stent placement,
Transluminal procedures involving stent redilation	to 1506	not relevant		
Stent placement procedures involving pulmonary and systemic veins	to 1416	not relevant		
Stent placement procedures involving pulmonary arterial tree	to 1443	not relevant		
Stent placement procedures involving aorta and other systemic arteries	to 1451	not relevant		
Stent placement procedures involving coronary arteries	to 1470	not relevant		
Stent placement to deal with vessel rupture and trauma	to 1491	not relevant		
Procedures involving complications of stent placement	to 1490	not relevant		
Stent placement in atrial septum,	to 1650	12.45.40	12.01.90	Interatrial communication creation-enlargement,
Stent placement in atrial baffles,	to 1650	12.45.41	12.01.90	Interatrial communication creation-enlargement,
Fenestration of interatrial patch: transluminal with stent implantation,	to 1650	12.30.49	12.30.74	Transluminal interatrial communication creation,
Fenestration of Fontan type connection: transluminal with stent,	to 1685	12.30.46	12.01.47	Transluminal fenestration of atrial septum-tunnel,
Application of bilateral pulmonary arterial bands & transcatheter placement of stent in arterial duct,	to 1645	12.10.04	12.10.04	Application of bilateral pulmonary arterial bands & transcatheter placement of stent in arterial duct,
Transluminal stent implantation to Fontan type baffles,	to 1685	12.30.65	12.01.47	Transluminal fenestration of atrial septum-tunnel,
Transluminal stent redilation in Fontan type baffle,	to 1685	12.30.66	12.45.10	Stent redilation,
Transluminal stent implantation to fenestration of Fontan type connection,	to 1685	12.30.61	12.01.47	Transluminal fenestration of atrial septum-tunnel,
Completion of total cavopulmonary connection (TCPC) using transcatheter inferior to superior caval vein covered stent,	to 1650	12.30.60	12.30.60	Completion of total cavopulmonary connection (TCPC) using transcatheter inferior to superior caval vein covered stent,
Stent placement in right ventricular outflow tract,	to 1650	12.06.18	12.06.18	Stent placement in right ventricular outflow tract,
Stent placement in native right ventricular outflow tract,	to 1650	12.06.92	12.06.18	Stent placement in right ventricular outflow tract,
Stent placement in right ventricular outflow tract: status post surgery,	to 1650	12.06.93	12.06.18	Stent placement in right ventricular outflow tract,
Stent placement in systemic-to-pulmonary collateral artery(ies) (MAPCA(s)),	to 1212	12.25.62	12.25.62	Stent placement in systemic-to-pulmonary collateral artery (MAPCA(s)),
Stent placement in right systemic-to-pulmonary collateral artery(ies) (MAPCA(s)),	to 1212	12.25.20	12.25.62	Stent placement in systemic-to-pulmonary collateral artery (MAPCA(s)),
Stent placement in left systemic-to-pulmonary collateral artery(ies) (MAPCA(s)),	to 1212	12.25.29	12.25.62	Stent placement in systemic-to-pulmonary collateral artery (MAPCA(s)),
Stent placement in arterial duct (PDA),	to 1650	12.10.14	12.10.14	Stent placement in arterial duct (PDA),
Stent placement in systemic-to-pulmonary arterial shunt,	to 2240	12.31.27	12.36.23	Stent placement in cardiac conduit,
Stent placement in cardiac conduit,	to 2240	12.36.23	12.36.23	Stent placement in cardiac conduit,
Stent placement in right ventricle to pulmonary arterial conduit,	to 1650	12.36.28	12.36.23	Stent placement in cardiac conduit,
Recanalisation of occluded vessel with stent,	to 3205	12.45.52	12.45.58	Transluminal therapeutic perforation to establish interchamber and/or intervessel communication,

1506 Transluminal procedures involving stent redilation

Stent redilation,	to 1663	12.45.10	12.45.10	Stent redilation,
Stent redilation procedures involving pulmonary arterial tree	to 1443	not relevant		
Stent redilation procedures involving aorta and other systemic arteries	to 1451	not relevant		
Redilation of stent in systemic vein,	to 1665	12.00.88	12.45.10	Stent redilation,
Redilation of stent in pulmonary vein,	to 1681	12.00.89	12.45.10	Stent redilation,
Stent redilation in atrial septum,	to 1665	12.45.42	12.45.10	Stent redilation,
Stent redilation in atrial baffles,	to 1665	12.45.43	12.45.10	Stent redilation,
Stent redilation in native right ventricular outflow tract,	to 1650	12.06.95	12.45.10	Stent redilation,

	Stent radiation in right ventricular outflow tract: stasis post surgery,	to 1650	12.06.96	12.45.10	Stent radiation,
	Stent radiation in systemic-to-pulmonary collateral artery(ies) (MAPCA(s)),	to 1212	12.25.69	12.45.10	Stent radiation,
	Stent radiation in right systemic-to-pulmonary collateral artery(ies) (MAPCA(s)),	to 1212	12.25.70	12.45.10	Stent radiation,
	Stent radiation in left systemic-to-pulmonary collateral artery(ies) (MAPCA(s)),	to 1212	12.25.71	12.45.10	Stent radiation,
	Stent radiation in arterial duct (PDA),	to 1665	12.10.26	12.45.10	Stent radiation,
	Stent radiation in systemic-to-pulmonary arterial shunt,	to 2240	12.36.34	12.45.10	Stent radiation,
	Stent radiation in cardiac conduit,	to 2240	12.36.32	12.45.10	Stent radiation,
	Stent radiation in right ventricle to pulmonary arterial conduit,	to 1665	12.36.33	12.45.10	Stent radiation,
1509	Transluminal cardiovascular catheterisation procedures involving device implantation				
	Transluminal device implantation,	to 1660	12.45.13	12.45.13	Transluminal device implantation,
	Transluminal procedures involving coil implantation	to 1510	not relevant		
	Transluminal procedures involving septal device occlusion	to 1511	not relevant		
	Device occlusion procedures involving pulmonary and systemic veins	to 1417	not relevant		
	Transluminal procedures involving flow restriction devices	to 1512	not relevant		
	Transluminal procedures involving devices to occlude paravalvar leaks	to 1513	not relevant		
	Transluminal procedures involving embolisation of arteriovenous fistulas (malformations)	to 1460	not relevant		
	Reduction of interatrial patch fenestration: transmural with device,	to 1660	12.30.73	12.01.08	Interatrial communication closure: partial,
	Right atrial septum-tunnel fenestration closure with transmural device,	to 1660	12.30.21	12.30.21	Right atrial septum-tunnel fenestration closure with transmural device,
	Transluminal occlusion of Fontan type connection fenestration,	to 1685	12.30.62	12.30.21	Right atrial septum-tunnel fenestration closure with transmural device,
	Pulmonary artery occlusion using transcatheter device,	to 1660	12.15.43	12.45.13	Transluminal device implantation,
	Transcatheter bronchopulmonary collateral occlusion with device,	to 1660	12.70.09	12.45.13	Transluminal device implantation,
	Transluminal occlusion of systemic-to-pulmonary collateral artery(ies) (MAPCA(s)) with coil-device,	to 1212	12.25.65	12.25.65	Transluminal occlusion of systemic-to-pulmonary collateral artery(ies) (MAPCA(s)) with coil-device,
	Transluminal occlusion of right systemic-to-pulmonary collateral artery(ies) (MAPCA(s)) with coil-device,	to 1212	12.25.23	12.25.65	Transluminal occlusion of systemic-to-pulmonary collateral artery(ies) (MAPCA(s)) with coil-device,
	Transluminal occlusion of left systemic-to-pulmonary collateral artery(ies) (MAPCA(s)) with coil-device,	to 1212	12.25.26	12.25.65	Transluminal occlusion of systemic-to-pulmonary collateral artery(ies) (MAPCA(s)) with coil-device,
1510	Transluminal cardiovascular catheterisation procedures involving coil implantation				
	Cardiovascular catheterisation occlusion procedure with coil,	to 1660	12.45.14	12.45.14	Cardiovascular catheterisation occlusion procedure with coil,
	Aortic aneurysm transcatheter coil occlusion,	to 699	12.18.76	12.45.14	Cardiovascular catheterisation occlusion procedure with coil,
	Aortic false (pseudo) aneurysm transcatheter coil occlusion,	to 699	12.18.77	12.45.14	Cardiovascular catheterisation occlusion procedure with coil,
	Arterial duct (PDA) closure with transluminal coil,	to 1660	12.24.21	12.24.21	Arterial duct (PDA) closure with transluminal coil,
1511	Transluminal procedures involving septal and arterial duct device occlusion				
	Transluminal device implantation: septal occlusion,	to 1663	12.45.22	12.45.13	Transluminal device implantation,
	Atrial septal defect (ASD) secundum closure with transmural device,	to 1660	12.01.06	12.01.06	Atrial septal defect (ASD) secundum closure with transmural device,
	Interatrial communication closure with transmural device,	to 1660	12.01.98	12.01.98	Interatrial communication closure with transmural device,
	Patent foramen ovale (PFO) closure with transmural device,	to 1660	12.01.07	12.01.07	Patent foramen ovale (PFO) closure with transmural device,
	Ventricular septal defect (VSD) closure with transmural device,	to 1660	12.08.07	12.08.07	Ventricular septal defect (VSD) closure with transmural device,
	Transluminal fenestration of ventricular septal defect (VSD) patch,	to 1000	12.08.20	12.08.20	Transluminal fenestration of ventricular septal defect (VSD) patch,
	Muscular ventricular septal defect (VSD) closure with transmural device,	to 1660	12.08.61	12.08.07	Ventricular septal defect (VSD) closure with transmural device,
	Perimembranous ventricular septal defect (VSD) closure with transmural device,	to 1660	12.08.62	12.08.07	Ventricular septal defect (VSD) closure with transmural device,
	Intraoperative ventricular septal defect (VSD) closure with transmural device (hybrid approach),	to 1660	12.08.28	12.08.28	Intraoperative ventricular septal defect (VSD) closure with transmural device (hybrid approach),
	Intraoperative periventricular ventricular septal defect (VSD) closure with transmural device (hybrid approach),	to 1660	12.08.64	12.08.28	Intraoperative ventricular septal defect (VSD) closure with transmural device (hybrid approach),
	Aortopulmonary window closure with transcatheter device,	to 1660	12.12.08	12.12.08	Aortopulmonary window closure with transcatheter device,
	Arterial duct (PDA) closure with transmural device,	to 1660	12.24.04	12.24.04	Arterial duct (PDA) closure with transmural device,
	Arterial duct (PDA) closure with transluminal plug device,	to 1660	12.24.22	12.24.22	Arterial duct (PDA) closure with transluminal Amplatzer plug,
	Occlusion of systemic-to-pulmonary arterial shunt by transmural device-embolus,	to 1660	12.31.34	12.31.34	Occlusion of systemic-to-pulmonary arterial shunt by transmural device-embolus,
1512	Transluminal procedures involving flow restriction devices				
	Transluminal implantation of flow restriction device,	to 1660	12.45.16	12.45.13	Transluminal device implantation,
	Reduction of interatrial fenestration for Fontan type connection: transmural with device,	to 1660	12.30.71	12.01.08	Interatrial communication closure: partial,
	Pulmonary trunk flow restriction using transcatheter implanted device,	to 1660	12.15.25	12.15.25	Pulmonary trunk flow restriction using transcatheter implanted device,
	Right pulmonary artery flow restriction using transcatheter implanted device,	to 1660	12.15.26	12.15.25	Pulmonary trunk flow restriction using transcatheter implanted device,
	Left pulmonary artery flow restriction using transcatheter implanted device,	to 1660	12.15.27	12.15.25	Pulmonary trunk flow restriction using transcatheter implanted device,
	Right + left pulmonary artery flow restriction using transcatheter implanted devices,	to 1660	12.15.42	12.15.25	Pulmonary trunk flow restriction using transcatheter implanted device,
	Pulmonary artery occlusion using transcatheter device,	to 1660	12.15.43	12.45.13	Transluminal device implantation,
1513	Transluminal procedures involving devices to occlude paravalvar leaks				
	Transluminal prosthetic valve leak closure using device,	to 1660	12.45.19	12.45.19	Transluminal prosthetic valve leak closure using device,
	Transluminal paraprosthetic tricuspid valve leak device closure,	to 1660	12.02.91	12.45.19	Transluminal prosthetic valve leak closure using device,
	Transluminal paraprosthetic mitral valve leak device closure,	to 1660	12.03.99	12.45.19	Transluminal prosthetic valve leak closure using device,
	Transluminal paraprosthetic pulmonary valve leak device closure,	to 1660	12.13.54	12.45.19	Transluminal prosthetic valve leak closure using device,
	Transluminal paraprosthetic aortic valve leak device closure,	to 1660	12.13.83	12.45.19	Transluminal prosthetic valve leak closure using device,
1515	Transluminal procedures involving valve implantation and repair				
	Transluminal implantation of valve,	to 1619	12.45.15	12.45.15	Transluminal implantation of valve,
	Transluminal pulmonary valvar insertion with stent mounted valve,	to 1650	12.13.51	12.13.51	Transluminal pulmonary valvar insertion with stent mounted valve,
	Transluminal pulmonary valvar insertion with stent mounted valve: reimplant (valve in valve),	to 1650	12.13.52	12.13.51	Transluminal pulmonary valvar insertion with stent mounted valve,
	Transluminal aortic valvar insertion with stent mounted valve,	to 1650	12.13.81	12.13.81	Transluminal aortic valvar insertion with stent mounted valve,
	Transluminal aortic valvar insertion with stent mounted valve: reimplant (valve in valve),	to 1650	12.13.82	12.13.81	Transluminal aortic valvar insertion with stent mounted valve,
	Transapical aortic valve implantation (hybrid approach),	to 1650	12.13.84	12.13.84	Transapical aortic valve implantation (hybrid approach),
	Transluminal tricuspid valve repair,	to 1496	12.02.97	12.02.00	Tricuspid valve procedure,
	Transluminal mitral valve repair,	to 1496	12.03.97	12.03.97	Transluminal mitral valve repair,
	Transluminal mitral valve replacement,	to 1619	12.03.98	12.45.15	Transluminal implantation of valve,
1517	Transluminal procedures involving valve, artery and septal perforation				
	Transluminal procedures involving valve perforation	to 1518	not relevant		
	Catheterisation transeptal approach with transeptal puncture,	to 1000	12.45.01	12.45.01	Catheterisation transeptal approach with transeptal puncture,
	Balloon atrial septostomy with preceding radiofrequency perforation,	to 1000	12.01.76	12.01.41	Balloon atrial septostomy by pull back (Rashkind),
	Balloon atrial septostomy with preceding needle perforation,	to 1000	12.30.77	12.01.41	Balloon atrial septostomy by pull back (Rashkind),
	Transluminal interatrial communication creation,	to 1690	12.30.74	12.30.74	Transluminal interatrial communication creation,
	Transluminal interatrial communication creation: needle perforation,	to 1000	12.30.75	12.30.74	Transluminal interatrial communication creation,
	Transluminal interatrial communication creation: radiofrequency perforation,	to 1000	12.30.76	12.30.74	Transluminal interatrial communication creation,
	Transluminal interatrial septal baffle perforation,	to 1000	12.01.86	12.30.74	Transluminal interatrial communication creation,
	Transluminal interatrial septal baffle perforation using radiofrequency,	to 1000	12.01.77	12.30.74	Transluminal interatrial communication creation,
	Transluminal interatrial septal baffle perforation using needle,	to 1000	12.01.97	12.30.74	Transluminal interatrial communication creation,
	Fenestration at atrial level: transmural radiofrequency perforation,	to 1000	12.01.84	12.30.74	Transluminal interatrial communication creation,
	Fenestration at atrial level: transmural needle perforation,	to 1000	12.01.87	12.30.74	Transluminal interatrial communication creation,
	Transluminal fenestration of ventricular septal defect (VSD) patch,	to 1000	12.08.20	12.08.20	Transluminal fenestration of ventricular septal defect (VSD) patch,
	Transluminal interventricular communication creation: needle perforation,	to 1000	12.08.65	12.08.65	Transluminal interventricular communication creation,
	Transluminal interventricular communication creation: radiofrequency perforation,	to 1000	12.08.67	12.08.65	Transluminal interventricular communication creation,
	Transluminal perforation and dilation of aortic isthmus atresia,	to 1663	12.18.65	12.45.58	Transluminal therapeutic perforation to establish interchamber and/or intervessel communication,
	Transluminal perforation of cardiac conduit,	to 2240	12.36.36	12.45.58	Transluminal therapeutic perforation to establish interchamber and/or intervessel communication,
	Transluminal perforation of systemic-to-pulmonary arterial shunt,	to 2240	12.36.37	12.45.58	Transluminal therapeutic perforation to establish interchamber and/or intervessel communication,
	Transluminal perforation of systemic artery,	to 3230	12.36.38	12.45.58	Transluminal therapeutic perforation to establish interchamber and/or intervessel communication,
	Transluminal perforation of systemic vein,	to 3220	12.36.39	12.45.58	Transluminal therapeutic perforation to establish interchamber and/or intervessel communication,
1518	Transluminal procedures involving valve perforation				
	Transluminal laser pulmonary valvotomy,	to 1000	12.13.07	12.13.09	Pulmonary valvar transluminal perforation and dilation,
	Transluminal radiofrequency pulmonary valvar perforation,	to 1000	12.13.08	12.13.09	Pulmonary valvar transluminal perforation and dilation,
	Pulmonary valvar transluminal perforation and dilation,	to 1663	12.13.09	12.13.09	Pulmonary valvar transluminal perforation and dilation,
	Transluminal laser aortic valvotomy,	to 1000	12.16.06	12.16.25	Aortic valvar transluminal perforation and dilation,
	Transluminal radiofrequency aortic valvotomy,	to 1000	12.16.07	12.16.25	Aortic valvar transluminal perforation and dilation,
	Aortic valvar transluminal perforation and dilation,	to 1663	12.16.25	12.16.25	Aortic valvar transluminal perforation and dilation,
1519	Transluminal procedures involving non-arrhythmia related ablation techniques				
	Right ventricular outflow tract transluminal laser procedure,	to 1000	12.06.07	12.06.41	Right ventricular outflow tract obstruction relief,
	Transluminal laser resection of right ventricular muscle,	to 1000	12.06.23	12.06.26	Right ventricular procedure,
	Right ventricular outflow tract obstruction relief with transmural radiofrequency & dilation,	to 1000	12.06.94	12.06.41	Right ventricular outflow tract obstruction relief,
	Right ventricular outflow tract obstruction relief with transmural cryablation,	to 1000	12.06.97	12.06.41	Right ventricular outflow tract obstruction relief,
	Left ventricular outflow tract transluminal laser procedure,	to 1000	12.07.10	12.07.13	Left ventricular outflow tract obstruction relief,
	Transluminal laser resection of left ventricular muscle,	to 1000	12.07.23	12.07.13	Left ventricular outflow tract obstruction relief,
	Left ventricular outflow tract obstruction relief by transmural septal radiofrequency,	to 1000	12.07.14	12.07.13	Left ventricular outflow tract obstruction relief,
	Left ventricular outflow tract obstruction relief by transmural cryablation,	to 1000	12.07.20	12.07.13	Left ventricular outflow tract obstruction relief,
	Left ventricular outflow tract obstruction relief by transcatheter coronary chemical ablation,	to 1292	12.07.19	12.07.19	Left ventricular outflow tract obstruction relief by transcatheter coronary chemical ablation,
	_____ End of branch _____				

1530 Fetal intervention procedures

Fetal procedure,	to 990	12.45.90	12.45.90	Fetal procedure,
Percutaneous transamniotic approach,	to 990	12.41.10	no equivalent	
Open transuterine transamniotic approach,	to 990	12.41.11	no equivalent	
Fetal transcatheter procedures	to 1531	not relevant		
Fetal cardiac surgery,	to 990	12.45.60	12.45.90	Fetal procedure,
Fetal cardioscopy,	to 990	12.45.61	12.45.90	Fetal procedure,
Fetal pericardiocentesis,	to 990	12.45.62	12.45.90	Fetal procedure,
Division of placental communicating vessels in twin-to-twin transfusion syndrome by laser coagulation,	to 990	12.45.91	12.45.91	Division of placental communicating vessels in twin-to-twin transfusion syndrome by laser coagulation,
Percutaneous umbilical blood sampling	to 990	12.45.92	12.45.90	Fetal procedure,
Fetal umbilical cord ligation (feticide)	to 990	12.45.93	12.45.90	Fetal procedure,
Fetal intracardiac drug administration,	to 990	12.45.94	12.45.90	Fetal procedure,

1531 Fetal transcatheter procedures

Fetal transluminal catheter procedure,	to 990	12.45.70	12.45.70	Fetal transluminal catheter procedure,
Fetal pulmonary valvotomy,	to 990	12.45.78	12.45.90	Fetal procedure,
Fetal balloon pulmonary valvotomy,	to 1663	12.45.71	12.45.71	Fetal balloon pulmonary valvotomy,
Fetal pulmonary valvar perforation & balloon dilation,	to 1663	12.45.72	12.45.71	Fetal balloon pulmonary valvotomy,
Fetal aortic valvotomy,	to 990	12.45.79	12.45.90	Fetal procedure,
Fetal balloon aortic valvotomy,	to 1663	12.45.73	12.45.73	Fetal balloon aortic valvotomy,
Fetal aortic valvar perforation & balloon dilation,	to 1663	12.45.74	12.45.73	Fetal balloon aortic valvotomy,
Fetal pericardiocentesis: transcatheter,	to 990	12.45.75	12.45.75	Fetal pericardiocentesis: transcatheter,
Fetal balloon atrial septostomy,	to 990	12.45.76	12.45.76	Fetal balloon atrial septostomy,
Fetal atrial septal perforation & balloon septostomy,	to 990	12.45.77	12.45.76	Fetal balloon atrial septostomy,
Fetal atrial septal perforation with laser & balloon septostomy,	to 990	12.45.80	12.45.76	Fetal balloon atrial septostomy,
Fetal balloon atrial septostomy with stent implantation,	to 1650	12.45.81	12.45.76	Fetal balloon atrial septostomy,
Gestational age qualifiers	to 990	not relevant		
Procedure status	to 1495	not relevant		

End of branch

1550 Vascular access procedures

Line placement procedures	to 1551	not relevant		
Vascular access line related and removal procedures	to 1552	not relevant		
Renal dialysis procedures	to 1567	not relevant		

1551 Line placement procedures

Arterial line placement,	to 3230	12.81.01	no equivalent	
Arterial line placement: percutaneous,	to 3230	12.81.02	no equivalent	
Arterial line placement: cutdown,	to 3230	12.81.03	no equivalent	
Central venous line placement,	to 3220	12.81.10	no equivalent	
Central venous line placement: percutaneous,	to 3220	12.81.11	no equivalent	
Central venous line placement: cutdown	to 3220	12.81.12	no equivalent	
Long term access central venous line or device placement,	to 1671	12.32.77	no equivalent	
Transthoracic line placement,	to 3205	12.81.21	no equivalent	

1552 Vascular access line related and removal procedures

Arterial line removal,	to 3230	12.81.40	no equivalent	
Arterial line removal by cutdown,	to 3230	12.81.45	no equivalent	
Arterial line declotting with thrombolytic agent,	to 3230	12.81.41	no equivalent	
Venous line declotting with thrombolytic agent,	to 3220	12.81.42	no equivalent	
Long term venous access line declotting with thrombolytic agent,	to 1671	12.81.43	no equivalent	
Long term venous access line revision,	to 1671	12.81.44	no equivalent	
Long term venous access line or device removal,	to 1671	12.32.78	no equivalent	

End of branch

1560 Hybrid procedures: combined surgical & transluminal

Hybrid approach (combined surgical & transluminal),	to 1780	12.41.30	12.41.30	Hybrid approach (combined surgical & transluminal),
Intraoperative procedures involving pulmonary arteries - hybrid approach	to 1561	not relevant		
Intraoperative ventricular septal defect (VSD) closure with transluminal device (hybrid approach),	to 1660	12.08.28	12.08.28	Intraoperative ventricular septal defect (VSD) closure with transluminal device (hybrid approach),
Intraoperative periventricular ventricular septal defect (VSD) closure with transluminal device (hybrid approach),	to 1660	12.08.64	12.08.28	Intraoperative ventricular septal defect (VSD) closure with transluminal device (hybrid approach),
Hypoplastic left heart syndrome hybrid approach (transcatheter & surgery),	to 1000	12.20.21	12.20.21	Hypoplastic left heart syndrome hybrid approach (transcatheter & surgery),
Hypoplastic left heart syndrome hybrid approach (transcatheter & surgery): stage 1,	to 1000	12.20.20	12.20.20	Hypoplastic left heart syndrome hybrid approach (transcatheter & surgery): stage 1,
Hypoplastic left heart syndrome hybrid approach (transcatheter & surgery) 'stage 2': aortopulmonary amalgamation + superior cavopulmonary anastomosis(es) + debanding of pulmonary arteries,	to 1000	12.20.22	12.20.22	Hypoplastic left heart syndrome hybrid approach (transcatheter & surgery) 'stage 2': aortopulmonary amalgamation + superior cavopulmonary anastomosis(es) + debanding of pulmonary arteries,
Hypoplastic left heart syndrome hybrid approach (transcatheter & surgery) 'stage 2': aortopulmonary amalgamation + superior cavopulmonary anastomosis(es) + arch repair,	to 1242	12.20.23	12.20.23	Hypoplastic left heart syndrome hybrid approach (transcatheter & surgery) 'stage 2': aortopulmonary amalgamation + superior cavopulmonary anastomosis(es) + arch repair,
Application of bilateral pulmonary arterial bands & transcatheter placement of stent in arterial duct,	to 1645	12.10.04	12.10.04	Application of bilateral pulmonary arterial bands & transcatheter placement of stent in arterial duct,
Transapical aortic valve implantation (hybrid approach),	to 1650	12.13.84	12.13.84	Transapical aortic valve implantation (hybrid approach),
Site where transcatheter procedure undertaken	to 1401	not relevant		

1561 Intraoperative procedures involving pulmonary arteries - hybrid approach

Intraoperative pulmonary arterial balloon dilation-arterioplasty (hybrid approach),	to 1680	12.14.39	12.13.05	Balloon dilation of pulmonary valve,
Intraoperative placement of pulmonary arterial stent (hybrid approach),	to 1680	12.14.40	12.15.50	Stent placement in pulmonary tree,
Intraoperative adjustment procedure to pulmonary arterial stent (hybrid approach),	to 1680	12.14.41	12.15.11	Procedure involving pulmonary artery,
Intraoperative removal of pulmonary arterial stent,	to 1680	12.14.38	12.15.11	Procedure involving pulmonary artery,

End of branch

1565 Postoperative and cardiac support procedures & therapies

Postoperative procedure,	to 1000	12.32.00	12.32.00	Postoperative procedure,
Chest & pleural drainage procedures	to 1566	not relevant		
Renal dialysis procedures	to 1567	not relevant		
Operations related to transcatheter procedures	to 1570	not relevant		
Procedures involving preceding or previous chest wall incisions	to 1575	not relevant		
Cardiac support and assist device procedures	to 1580	not relevant		
Cardiomyoplasty procedures	to 1595	not relevant		
DC cardioversion,	to 1000	12.32.14	12.32.14	DC cardioversion,
Thoracic duct occlusion,	to 1000	12.32.28	12.32.28	Thoracic duct occlusion,
Ligation of right thoracic lymph duct,	to 1000	12.32.16	12.32.28	Thoracic duct occlusion,
Ligation of left thoracic lymph duct,	to 1000	12.32.26	12.32.28	Thoracic duct occlusion,
Oversewing of thoracic chyle leakage,	to 1000	12.32.27	12.32.28	Thoracic duct occlusion,
Postoperative procedure to control bleeding,	to 1000	12.32.18	12.32.18	Postoperative procedure to control bleeding,
Transthoracic cardiac massage,	to 1000	12.32.25	12.87.01	Cardiac support procedure,
Plication of hemidiaphragm,	to 1000	12.32.70	12.32.70	Plication of hemidiaphragm,
Plication of right hemidiaphragm,	to 1000	12.32.71	12.32.70	Plication of hemidiaphragm,
Plication of left hemidiaphragm,	to 1000	12.32.72	12.32.70	Plication of hemidiaphragm,
Instigation of total parenteral nutrition (TPN),	to 1000	12.32.75	12.32.00	Postoperative procedure,
Instigation of abdominal compression therapy,	to 1000	12.32.76	12.32.00	Postoperative procedure,
Instigation of induced hypothermia,	to 1000	12.32.79	12.32.00	Postoperative procedure,
Implantation-removal of central venous access devices	to 1550	not relevant		

1566 Chest and pleural drainage procedures

Insertion of pleural tube drain,	to 1578	12.32.80	12.32.80	Insertion of pleural tube drain,
Insertion of right pleural tube drain,	to 1578	12.32.81	12.32.80	Insertion of pleural tube drain,
Insertion of left pleural tube drain,	to 1578	12.32.82	12.32.80	Insertion of pleural tube drain,
Insertion of mediastinal tube drain,	to 1578	12.32.83	12.32.83	Insertion of mediastinal tube drain,
Removal of right pleural tube drain,	to 1578	12.32.84	12.65.89	Pleural procedure,
Removal of left pleural tube drain,	to 1578	12.32.85	12.65.89	Pleural procedure,
Removal of mediastinal tube drain,	to 1578	12.32.86	12.65.06	Mediastinal procedure,
Thoracocentesis,	to 1578	12.33.21	12.65.89	Pleural procedure,
Right thoracocentesis,	to 1578	12.33.22	12.65.89	Pleural procedure,
Left thoracocentesis,	to 1578	12.33.23	12.65.89	Pleural procedure,
Pleural drainage,	to 1578	12.33.27	12.65.89	Pleural procedure,
Pleural drainage: right,	to 1578	12.33.28	12.65.89	Pleural procedure,
Pleural drainage: left,	to 1578	12.33.29	12.65.89	Pleural procedure,
Open pleural drainage,	to 1578	12.33.24	12.65.89	Pleural procedure,
Open right pleural drainage,	to 1578	12.33.25	12.65.89	Pleural procedure,
Open left pleural drainage,	to 1578	12.33.26	12.65.89	Pleural procedure,

1567 Renal dialysis procedures

Haemodialysis catheter placement,	to 3205	12.81.51	12.32.90	Instigation of renal dialysis,
Haemodialysis catheter placement: percutaneous,	to 3205	12.81.52	12.32.90	Instigation of renal dialysis,

Haemodialysis catheter placement: open,	to 3205	12.81.53	12.32.90	Intigation of renal dialysis,
Peritoneal dialysis catheter placement,	to 1000	12.81.54	12.32.90	Intigation of renal dialysis,
Peritoneal dialysis catheter placement: temporary,	to 1000	12.81.55	12.32.90	Intigation of renal dialysis,
Peritoneal dialysis catheter placement: permanent,	to 1000	12.81.56	12.32.90	Intigation of renal dialysis,
Peritoneal dialysis catheter removal,	to 1000	12.81.57	12.32.90	Intigation of renal dialysis,
Peritoneal dialysis catheter placement: temporary,	to 1000	12.81.58	12.32.90	Intigation of renal dialysis,
Peritoneal dialysis catheter removal: permanent,	to 1000	12.81.59	12.32.90	Intigation of renal dialysis,
Intigation of renal dialysis,	to 1000	12.32.90	12.32.90	Intigation of renal dialysis,
Intigation of peritoneal dialysis,	to 1000	12.32.91	12.32.90	Intigation of renal dialysis,
Intigation of haemodialysis,	to 1000	12.32.92	12.32.90	Intigation of renal dialysis,
Intigation of continuous venovenous haemofiltration (CVVH),	to 1000	12.32.93	12.32.90	Intigation of renal dialysis,
Intigation of continuous arteriovenous haemofiltration (CAVH),	to 1000	12.32.94	12.32.90	Intigation of renal dialysis,
Intigation of continuous venovenous haemodiafiltration (CVVHD),	to 1000	12.32.95	12.32.90	Intigation of renal dialysis,
Intigation of continuous arteriovenous haemodiafiltration (CAVHD),	to 1000	12.32.96	12.32.90	Intigation of renal dialysis,
1570 Operations related to transcatheter procedures				
Operation related to transcatheter procedure,	to 1000	12.33.60	12.33.60	Operation related to transcatheter procedure,
Open removal of transcatheter implanted device,	to 1660	12.33.61	12.33.60	Operation related to transcatheter procedure,
Open removal of migrated transcatheter device after attempted deployment,	to 1660	12.33.62	12.33.60	Operation related to transcatheter procedure,
1575 Procedures involving preceding or previous chest wall incisions				
Delayed closure of sternum	to 1576	not relevant		
Reopening of chest wall incision,	to 1781	12.65.41	12.32.00	Postoperative procedure,
Reopening of chest wall incision to control bleeding,	to 1781	12.65.42	12.32.16	Postoperative procedure to control bleeding,
Reopening of chest wall incision for cardiac massage,	to 1781	12.65.43	12.32.00	Postoperative procedure,
Reopening of chest wall incision for tissue tamponade (decompression),	to 1781	12.65.57	12.32.00	Postoperative procedure,
Reopening of chest wall incision to evacuate haematoma,	to 1781	12.65.58	12.32.00	Postoperative procedure,
Resuturing of chest wall incision,	to 1781	12.65.44	12.32.00	Postoperative procedure,
Debridement of chest wall incision,	to 1781	12.65.45	12.65.45	Debridement of chest wall incision,
Sternotomy wound drainage,	to 1000	12.65.56	12.65.56	Sternotomy wound drainage,
Procedure for sinus of chest wall incision,	to 1781	12.65.47	12.65.45	Debridement of chest wall incision,
Sternal wire removal from previous sternotomy,	to 1000	12.65.48	12.65.48	Sternal wire removal from previous sternotomy,
Plastic repair of chest wall incision using cutaneous flap,	to 1781	12.65.51	12.32.00	Postoperative procedure,
Plastic repair of median sternotomy using pectoralis major flap,	to 1000	12.65.52	12.32.00	Postoperative procedure,
Plastic repair of median sternotomy using latissimus dorsi flap,	to 1000	12.65.53	12.32.00	Postoperative procedure,
Plastic repair of median sternotomy using rectus abdominis flap,	to 1000	12.65.54	12.32.00	Postoperative procedure,
Plastic repair of median sternotomy using omentoplasty,	to 1000	12.65.55	12.32.00	Postoperative procedure,
1576 Delayed closure of sternum				
Delayed closure of sternum,	to 1000	12.65.60	12.65.60	Delayed closure of sternum,
Delayed closure of sternum with cutaneous flaps alone,	to 1000	12.65.61	12.65.60	Delayed closure of sternum,
Delayed closure of sternum with cutaneous flaps & PVC tubing stents,	to 1000	12.65.62	12.65.60	Delayed closure of sternum,
Delayed closure of sternum with cutaneous flaps & Goretex membrane,	to 1000	12.65.63	12.65.60	Delayed closure of sternum,
Delayed closure of sternum with cutaneous flaps,	to 1000	12.65.69	12.65.60	Delayed closure of sternum,
1578 @ Reason for pleural drainage procedure & technique - qualifiers				
- pleural effusion,	to 1000	Q5.32.51	not relevant	
- pneumothorax,	to 1000	Q5.32.52	not relevant	
- haemothorax,	to 1000	Q5.32.53	not relevant	
- chylothorax,	to 1000	Q5.32.54	not relevant	
- empyema,	to 1000	Q5.32.55	not relevant	
- malignant effusion,	to 1000	Q5.32.56	not relevant	
- with open flap,	to 1000	Q5.32.57	not relevant	
- pleural drainage technique (DESCRIBE),	to 1000	Q5.32.59	not relevant	
no entry	to 1000	not relevant		
1580 Cardiac support procedures				
Open chest massage of heart,	to 1000	12.87.00	12.87.01	Cardiac support procedure,
Reopening of chest wall incision for cardiac massage,	to 1781	12.65.43	12.32.00	Postoperative procedure,
Reopening of chest wall incision for tissue tamponade (decompression),	to 1781	12.65.57	12.32.00	Postoperative procedure,
Cardiac support procedure,	to 1000	12.87.01	12.87.01	Cardiac support procedure,
Ventricular assist device implantation and ECMO procedures	to 1585	not relevant		
Removal of ventricular assist devices and ECMO takedown procedures	to 1586	not relevant		
Intra-aortic balloon pump (IABP) insertion,	to 1000	12.87.10	12.87.10	Intra-aortic balloon pump (IABP) insertion,
Intra-aortic balloon pump (IABP) insertion: transluminal,	to 1000	12.87.02	12.87.02	Intra-aortic balloon pump (IABP) insertion: transluminal,
Intra-aortic balloon pump (IABP) removal: transluminal,	to 1000	12.87.03	12.45.00	Cardiovascular catheter procedure,
Intra-aortic balloon pump (IABP) insertion: open,	to 1000	12.87.04	12.87.04	Intra-aortic balloon pump (IABP) insertion: open,
Intra-aortic balloon pump (IABP) removal: open,	to 1000	12.87.05	12.22.00	Systemic arterial procedure,
Transluminal insertion of intraventricular haemopump,	to 1000	12.87.06	12.87.01	Cardiac support procedure,
Transluminal removal of intraventricular haemopump,	to 1000	12.87.07	12.45.00	Cardiovascular catheter procedure,
Open insertion of intraventricular haemopump,	to 1000	12.87.08	12.87.01	Cardiac support procedure,
Open removal of intraventricular haemopump,	to 1000	12.87.09	12.32.21	Cardiac procedure,
1585 Ventricular assist device implantation and ECMO procedures				
Ventricular assist device implantation,	to 1670	12.87.21	12.87.21	Ventricular assist device implantation,
Right ventricular assist device implantation,	to 1670	12.87.22	12.87.22	Right ventricular assist device implantation,
Left ventricular assist device implantation,	to 1670	12.87.23	12.87.23	Left ventricular assist device implantation,
Biventricular assist device implantation,	to 1670	12.87.24	12.87.24	Biventricular assist device implantation,
Cardiac support using Extracorporeal Membrane Oxygenation (ECMO) circuitry,	to 1670	12.87.25	12.87.25	Cardiac support using Extracorporeal Membrane Oxygenation (ECMO) circuitry,
Procedure involving Extracorporeal Membrane Oxygenation (ECMO) circuitry,	to 1670	12.87.28	12.87.28	Procedure involving Extracorporeal Membrane Oxygenation (ECMO) circuitry,
Mechanical life support procedure as bridge to transplant,	to 1670	12.87.26	12.87.21	Ventricular assist device implantation,
Mechanical life support procedure as bridge to recovery,	to 1670	12.87.27	12.87.21	Ventricular assist device implantation,
Prosthetic heart implantation,	to 1377	12.37.04	12.37.04	Prosthetic heart implantation,
1586 Removal of ventricular assist devices and ECMO takedown procedures				
Ventricular assist device removal,	to 1670	12.87.41	12.87.41	Ventricular assist device removal,
Right ventricular assist device removal,	to 1670	12.87.42	12.87.41	Ventricular assist device removal,
Left ventricular assist device removal,	to 1670	12.87.43	12.87.41	Ventricular assist device removal,
Biventricular assist device removal,	to 1670	12.87.44	12.87.41	Ventricular assist device removal,
Take down of Extracorporeal Membrane Oxygenation (ECMO) circuitry,	to 1670	12.87.45	12.87.45	Take down of Extracorporeal Membrane Oxygenation (ECMO) circuitry,
Prosthetic heart removal,	to 1377	12.87.46	12.87.41	Ventricular assist device removal,
1596 @ Chest wall incision qualifiers				
- median sternotomy,	to 1000	Q5.35.80	not relevant	
- thoracotomy,	to 1789	Q5.35.81	not relevant	
- thoracotomy: right,	to 1789	Q5.35.82	not relevant	
- thoracotomy: left,	to 1789	Q5.35.83	not relevant	
- parasternal incision,	to 1000	Q5.35.84	not relevant	
- parasternal incision: right,	to 1000	Q5.35.85	not relevant	
- parasternal incision: left,	to 1000	Q5.35.86	not relevant	
- thoracoscopic incision,	to 1795	Q5.35.87	not relevant	
- pacemaker-implantable cardioverter & defibrillator (ICD) pocket incision,	to 1000	Q5.35.88	not relevant	
- submammary incision,	to 1000	Q5.35.89	not relevant	
no entry	to 1000	not relevant		
1595 Cardiomyoplasty procedure				
Cardiomyoplasty procedure,	to 1000	12.87.31	12.87.31	Cardiomyoplasty procedure,
Cardiomyoplasty procedure - ventricular reinforcement,	to 1000	12.87.32	12.87.31	Cardiomyoplasty procedure,
Cardiomyoplasty procedure - ventricular replacement,	to 1000	12.87.33	12.87.31	Cardiomyoplasty procedure,
Cardiomyoplasty procedure - atrial reinforcement,	to 1000	12.87.34	12.87.31	Cardiomyoplasty procedure,
Cardiomyoplasty procedure - encircling aorta as diastolic counterpulsation,	to 1000	12.87.35	12.87.31	Cardiomyoplasty procedure,
End of branch				
1600 Interventional qualifier terms: including materials and sizes				
Generic procedure qualifiers	to 1601	not relevant		
Generic surgical material qualifiers	to 1602	not relevant		
Specific post-procedural status qualifier codes	to 954	not relevant		
Suturing techniques	to 1603	not relevant		
Procedures for ligation, division and closure of vessels	to 1604	not relevant		
Procedures involving implanted valves	to 1605	not relevant		
Materials for patches, external wraps & reconstruction	to 1608	not relevant		
Homograft, autograft, heterograft, mechanical valve insertion	to 1619	not relevant		
Materials for conduit & shunt construction	to 1630	not relevant		
Materials for ring repair of valves	to 1640	not relevant		
Materials for banding procedures	to 1645	not relevant		
Materials for placement of stents	to 1650	not relevant		
Embolus removal qualifiers	to 1655	not relevant		
Materials for vascular occlusion, defect closure and flow reduction - qualifiers	to 1660	not relevant		
Diameter/size of shunt-conduit-balloon-device-coil-valve used in procedure	to 1665	not relevant		
Materials and methods for assist devices & venous access devices - qualifiers	to 1670	not relevant		

Pulmonary artery(ies) involved in procedure - qualifiers	to 1680	not relevant	
Pulmonary vein(s) involved in procedure - qualifiers	to 1681	not relevant	
Characteristics of procedure & communication when creating an interchamber communication	to 1690	not relevant	
Guidance modalities for cardiothoracic procedures - qualifiers	to 1700	not relevant	
Monitoring modalities for cardiothoracic procedures - qualifiers	to 1701	not relevant	
no entry	to 1000	not relevant	

1601@ Generic procedure qualifiers

Age & weight related qualifiers	to 1606	not relevant	
Single or combined procedure qualifiers	to 1607	not relevant	
- procedure not performed,	to 1000	Q5.81.01	not relevant
- partial-incomplete,	to 1000	Q1.90.70	not relevant
- complete,	to 1000	Q1.90.71	not relevant
- extended,	to 1000	Q5.81.04	not relevant
- circumferential,	to 1000	Q5.81.05	not relevant
- sharp,	to 1000	Q5.81.06	not relevant
- blunt,	to 1000	Q5.81.07	not relevant
- surgical approach,	to 1000	Q5.81.12	not relevant
- transcatheter,	to 1000	Q5.81.13	not relevant
- complex,	to 1000	Q5.81.14	not relevant
- radical,	to 1000	Q5.81.15	not relevant
- procedure not successful,	to 1000	Q5.81.16	not relevant
- preceding,	to 1000	Q5.81.17	not relevant
- not preceding,	to 1000	Q5.81.18	not relevant
- delayed intracardiac procedure,	to 1000	Q5.81.19	not relevant
- previous intracardiac procedure,	to 1000	Q5.81.20	not relevant
- simultaneous intracardiac procedure,	to 1000	Q5.81.21	not relevant
- following trauma,	to 1000	Q5.81.22	not relevant
- following iatrogenic trauma,	to 1000	Q5.81.23	not relevant
- initial procedure,	to 1000	Q5.81.26	not relevant
- repeat procedure,	to 1000	Q5.81.27	not relevant
- at same procedure,	to 1000	Q5.81.32	not relevant
- as secondary procedure,	to 1000	Q5.81.33	not relevant
- intentional,	to 1800	Q1.91.01	not relevant
- inadvertent,	to 1800	Q1.91.02	not relevant
- in the setting of,	to 1000	Q5.81.38	not relevant
no entry	to 1000	not relevant	

1602@ Generic surgical material qualifiers

- prosthetic material,	to 1000	Q5.81.51	not relevant
- PTFE (Goretex),	to 1000	Q5.81.52	not relevant
- Dacron,	to 1000	Q5.81.53	not relevant
- homograft,	to 1000	Q5.81.54	not relevant
- aortic homograft,	to 1000	Q5.81.57	not relevant
- pulmonary artery homograft,	to 1000	Q5.81.58	not relevant
- bronchial homograft,	to 1000	Q5.81.59	not relevant
- heterograft,	to 1000	Q5.81.55	not relevant
- autograft,	to 1000	Q5.81.56	not relevant
- without insertion of valve,	to 1000	Q5.83.16	not relevant
- procedure involving new valve,	to 1000	Q5.83.17	not relevant
- using conduit,	to 1630	Q5.45.02	not relevant
- without using conduit,	to 1000	Q5.45.04	not relevant
- with prosthesis,	to 1000	Q5.45.05	not relevant
- without prosthesis,	to 1000	Q5.45.06	not relevant
no entry	to 1000	not relevant	

1603 @ Suturing techniques - qualifiers

- without pledgets,	to 1000	Q5.00.01	not relevant
- with pledgets,	to 1000	Q5.00.02	not relevant
- interrupted suture,	to 1000	Q5.00.03	not relevant
- interrupted suture without pledgets,	to 1000	Q5.00.04	not relevant
- interrupted suture with pledgets,	to 1000	Q5.00.05	not relevant
- running suture,	to 1000	Q5.00.06	not relevant
- sutures to right ventricular side of septum,	to 1000	Q5.00.07	not relevant
- sutures to left ventricular side of septum,	to 1000	Q5.00.08	not relevant
- sutures to right & left ventricular sides of septum,	to 1000	Q5.00.10	not relevant
- suture technique,	to 1000	Q5.00.09	not relevant
no entry	to 1000	not relevant	

1604 @ Procedures for ligation, division and closure of vessels - qualifiers

- ligation,	to 1000	Q5.00.20	not relevant
- single suture ligation,	to 1000	Q5.00.21	not relevant
- double suture ligation,	to 1000	Q5.00.22	not relevant
- triple suture ligation,	to 1000	Q5.00.23	not relevant
- single clip,	to 1000	Q5.00.24	not relevant
- double clip,	to 1000	Q5.00.25	not relevant
- ligation and clip,	to 1000	Q5.00.26	not relevant
- division,	to 1000	Q5.00.31	not relevant
- ligation and division,	to 1000	Q5.00.27	not relevant
- division and oversewing,	to 1000	Q5.00.28	not relevant
- division using clips,	to 1000	Q5.00.29	not relevant
- with device,	to 1000	Q5.00.30	not relevant
- closure of vessel technique (DESCRIBE),	to 1000	Q5.00.39	not relevant
no entry	to 1000	not relevant	

1605 @ Procedures involving implanted valve - qualifiers

- inspection,	to 1000	Q5.02.61	not relevant
- rotation,	to 1000	Q5.02.62	not relevant
- repair of paravalvular leak,	to 1000	Q5.02.63	not relevant
- balloon dilation,	to 1663	Q5.02.64	not relevant
- decalcification,	to 1000	Q5.02.65	not relevant
- excision of vegetations,	to 1000	Q5.02.66	not relevant
- removal of thrombus,	to 1000	Q5.02.67	not relevant
- removal of migrated valve,	to 1000	Q5.02.68	not relevant
- removal of foreign body from valve,	to 1000	Q5.02.70	not relevant
- mobilisation of valve leaflet,	to 1000	Q5.02.71	not relevant
- implanted valve procedure (DESCRIBE),	to 1000	Q5.02.69	not relevant
no entry	to 1000	not relevant	

1606 @ Age & weight related qualifiers

- weight less than or equal to 2.5Kg,	to 1000	Q5.81.08	765.1	P07.1	not relevant
- weight over 2.5Kg,	to 1000	Q5.81.09			not relevant
- neonatal,	to 1000	Q5.81.29			not relevant
- infantile (non-neonatal),	to 1000	Q5.81.30			not relevant
- age over 1 year,	to 1000	Q5.81.31			not relevant
- age under 2 years,	to 1000	Q5.81.24			not relevant
- age less than or equal to 2 years,	to 1000	Q5.81.28			not relevant
- age over 2 years,	to 1000	Q5.81.25			not relevant
- age under 18 years,	to 1000	Q5.81.10			not relevant
- age more than or equal to 18 years (adult),	to 1000	Q5.81.11			not relevant
no entry	to 1000	not relevant			

1607 @ Single or combined procedure qualifiers

- as an isolated procedure,	to 1000	Q5.81.36			not relevant
- as a component of another procedure,	to 1000	Q5.81.37			not relevant
- combined with coronary artery bypass graft (CABG) procedure,	to 1000	Q5.81.39			not relevant
- combined with coronary artery bypass graft (CABG) procedure & single valve procedure,	to 1000	Q5.81.40			not relevant
- combined with coronary artery bypass graft (CABG) procedure & double valve procedure,	to 1000	Q5.81.41			not relevant
- combined with single valve procedure,	to 1000	Q5.81.42			not relevant
- combined with double valve procedure,	to 1000	Q5.81.43			not relevant
- simultaneous intracardiac procedure,	to 1000	Q5.81.21			not relevant
no entry	to 1000	not relevant			

End of branch

1608 @ Materials for patches, external wraps & reconstruction - qualifiers

- cellophane wrap,	to 1000	Q5.90.40			not relevant
- pericardial patch,	to 1000	Q5.90.43			not relevant
- Dacron wrap,	to 1000	Q5.90.44			not relevant
- Goretex (PTFE) wrap,	to 1000	Q5.90.45			not relevant
- non-aortic patch,	to 1000	Q5.90.77			not relevant
- saphenous vein patch,	to 1000	Q5.90.78			not relevant
Suturing techniques - qualifiers	to 1603	not relevant			
Autologous materials	to 1610	not relevant			

Homograft materials	to 1611	not relevant	
Heterograft materials	to 1612	not relevant	
Prosthetic materials	to 1613	not relevant	
Number and configuration of patches	to 1614	not relevant	
Materials for conduits & valves	to 1619	not relevant	
Materials for ring repair of valves	to 1640	not relevant	
no entry	to 1000	not relevant	

1610 @ Autologous materials

- autologous patch,	to 1000	Q5.90.31	not relevant
- autologous pericardial patch,	to 1000	Q5.90.32	not relevant
- autologous pericardial patch: glutaraldehyde treated,	to 1000	Q5.90.38	not relevant
- autologous pericardial patch: non-glutaraldehyde treated,	to 1000	Q5.90.79	not relevant
- autologous pericardial pedicle,	to 1000	Q5.90.37	not relevant
- autologous right atrial appendage patch,	to 1000	Q5.90.33	not relevant
- autologous right atrial appendage pedicle,	to 1000	Q5.90.34	not relevant
- autologous left atrial appendage patch,	to 1000	Q5.90.35	not relevant
- autologous left atrial appendage pedicle,	to 1000	Q5.90.36	not relevant
- autologous aorta,	to 1000	Q5.90.46	not relevant
- autologous aortic patch,	to 1000	Q5.90.47	not relevant
- autologous aortic tube graft,	to 1000	Q5.90.48	not relevant
- bronchial autograft,	to 1000	Q5.90.76	not relevant
- autologous carotid artery,	to 1000	Q5.90.49	not relevant
- autologous carotid artery patch,	to 1000	Q5.90.50	not relevant
- autologous carotid artery patch from right carotid artery,	to 1000	Q5.90.70	not relevant
- autologous carotid artery patch from left carotid artery,	to 1000	Q5.90.71	not relevant
- autologous carotid artery tube graft,	to 1000	Q5.90.72	not relevant
- autologous carotid artery tube graft from right carotid artery,	to 1000	Q5.90.73	not relevant
- autologous carotid artery tube graft from left carotid artery,	to 1000	Q5.90.74	not relevant
- autologous oesophageal patch,	to 1000	Q5.90.75	not relevant
Suturing techniques - qualifiers	to 1603	not relevant	
no entry	to 1000	not relevant	

1611 @ Homograft materials for patches - qualifiers

- homograft patch,	to 1000	Q5.91.01	not relevant
- homograft pericardial patch,	to 1000	Q5.91.02	not relevant
- homograft pericardial patch: glutaraldehyde treated,	to 1000	Q5.91.03	not relevant
- homograft pericardial patch: non-glutaraldehyde treated,	to 1000	Q5.91.08	not relevant
- homograft pericardial patch: fresh,	to 1000	Q5.91.04	not relevant
- homograft pericardial patch: preserved,	to 1000	Q5.91.05	not relevant
- homograft pericardial patch: cryopreserved,	to 1000	Q5.91.10	not relevant
- patch of pulmonary arterial homograft,	to 1000	Q5.91.06	not relevant
- patch of aortic homograft,	to 1000	Q5.91.07	not relevant
- patch of mitral leaflet of aortic homograft,	to 1000	Q5.91.11	not relevant
Suturing techniques - qualifiers	to 1603	not relevant	
no entry	to 1000	not relevant	

1612 @ Heterograft materials for patches - qualifiers

- heterograft patch,	to 1000	Q5.92.01	not relevant
- heterograft pericardial patch,	to 1000	Q5.92.05	not relevant
- bovine pericardial patch,	to 1000	Q5.92.02	not relevant
- porcine pericardial patch,	to 1000	Q5.92.03	not relevant
- equine pericardial patch,	to 1000	Q5.92.04	not relevant
Suturing techniques - qualifiers	to 1603	not relevant	
no entry	to 1000	not relevant	

1613 @ Prosthetic materials for patches and implants - qualifiers

- prosthetic patch,	to 1000	Q5.93.01	not relevant
- Dacron patch,	to 1000	Q5.93.02	not relevant
- preclotted Dacron patch,	to 1000	Q5.93.03	not relevant
- collagen impregnated Dacron patch,	to 1000	Q5.93.04	not relevant
- collagen impregnated knitted Dacron patch,	to 1000	Q5.93.05	not relevant
- Sauvage filamentous Dacron patch,	to 1000	Q5.93.06	not relevant
- albumen impregnated Dacron patch,	to 1000	Q5.93.07	not relevant
- knitted Dacron velour patch,	to 1000	Q5.93.08	not relevant
- preclotted double velour woven Dacron patch,	to 1000	Q5.93.09	not relevant
- Teflon patch,	to 1000	Q5.93.10	not relevant
- 0.6mm PTFE (Goretex-Impra) patch,	to 1000	Q5.93.11	not relevant
- 0.4mm PTFE (Goretex-Impra) patch,	to 1000	Q5.93.12	not relevant
- 0.1mm PTFE (Goretex-Impra) patch,	to 1000	Q5.93.13	not relevant
- PTFE (Goretex-Impra) patch (cut from tube),	to 1000	Q5.93.14	not relevant
- PTFE (Goretex-Impra) patch (DESCRIBE),	to 1000	Q5.93.15	not relevant
- silicone implant for pectus reconstruction,	to 1000	Q5.90.41	not relevant
- Goretex implant for pectus reconstruction,	to 1000	Q5.90.42	not relevant
Suturing techniques - qualifiers	to 1603	not relevant	
no entry	to 1000	not relevant	

1614 @ Number and configuration of patches

- 1 patch,	to 1608	Q5.90.51	not relevant
- 2 patches,	to 1608	Q5.90.52	not relevant
- 3 patches,	to 1608	Q5.90.53	not relevant
- 4 patches,	to 1608	Q5.90.54	not relevant
- more than 4 patches,	to 1608	Q5.90.55	not relevant
- 2 patches: pulmonary trunk to right pulmonary artery & separate to left pulmonary artery,	to 1608	Q5.90.56	not relevant
- 2 patches: pulmonary trunk to left pulmonary artery & separate to right pulmonary artery,	to 1608	Q5.90.57	not relevant
- 2 patches: pulmonary trunk & separate to right + left pulmonary arteries,	to 1608	Q5.90.58	not relevant
- simple patch,	to 1608	Q5.90.59	not relevant
- extended patch,	to 1608	Q5.90.60	not relevant
no entry	to 1608	not relevant	

End of branch

1619 @ Homograft, autograft, heterograft, mechanical valve insertion - qualifiers

Position chosen to implant valve	to 1625	not relevant	
Valve and/or conduit insertion using homograft or autograft	to 1620	not relevant	
Valve and/or conduit insertion using heterograft bioprosthesis	to 1622	not relevant	
Valve and/or conduit insertion using mechanical prosthesis	to 1623	not relevant	
- prosthetic valve,	to 1665	Q5.83.18	not relevant
- autologous pericardium for valve,	to 1665	Q5.83.11	not relevant
- autologous pericardium for valve: glutaraldehyde preserved,	to 1665	Q5.83.12	not relevant
- autologous pericardium for valve: non-glutaraldehyde preserved,	to 1665	Q5.83.13	not relevant
- bovine pericardium for valve,	to 1665	Q5.83.14	not relevant
- porcine pericardium for valve,	to 1665	Q5.83.15	not relevant
- prosthetic nonbiological (synthetic) valve,	to 1665	Q5.83.01	not relevant
- PTFE valve,	to 1665	Q5.83.02	not relevant
- PTFE valve: 0.1mm PTFE,	to 1665	Q5.83.08	not relevant
- PTFE valve: 0.4mm PTFE,	to 1665	Q5.83.09	not relevant
- PTFE valve: 0.6mm PTFE,	to 1665	Q5.83.10	not relevant
- bioprosthetic (tissue) valve,	to 1624	Q5.83.03	not relevant
- with extracardiac valved conduit,	to 1665	Q5.83.04	not relevant
- with valveless conduit,	to 1665	Q5.83.05	not relevant
- composite conduit,	to 1000	Q5.95.16	not relevant
- without insertion of valve,	to 1000	Q5.83.16	not relevant
no entry	to 1665	not relevant	

1620 @ Valve and/or conduit insertion using homograft or autograft - qualifiers

- homograft valve,	to 1624	Q5.84.02	not relevant
- pulmonary valve autograft,	to 1624	Q5.84.01	not relevant
- aortic valve autograft,	to 1624	Q5.84.12	not relevant
- pulmonary valve homograft,	to 1624	Q5.84.03	not relevant
- aortic valve homograft,	to 1624	Q5.84.04	not relevant
- composite homograft conduit,	to 1624	Q5.84.18	not relevant
- inverted homograft valve (Top Hat),	to 1624	Q5.84.07	not relevant
- inverted pulmonary autograft valve (Top Hat),	to 1624	Q5.84.13	not relevant
- mitral homograft,	to 1624	Q5.84.08	not relevant
no entry	to 1624	not relevant	

1622 @ Valve and/or conduit insertion using heterograft bioprosthesis - qualifiers

- heterograft bioprosthesis,	to 1624	Q5.89.01	not relevant
- stentless tissue valve (bioprosthesis),	to 1624	Q5.89.22	not relevant
- stented tissue valve (bioprosthesis),	to 1624	Q5.89.26	not relevant
- stented tissue valve (bioprosthesis): pericardial,	to 1624	Q5.89.27	not relevant
- nonhomograft pericardial valveless tube,	to 1624	Q5.89.25	not relevant
- porcine bioprosthesis,	to 1624	Q5.89.21	not relevant

- bovine bioprostheses,	to 1624	Q5.89.24	not relevant
- biosynthetic valve with prosthetic tube (composite),	to 1624	Q5.83.07	not relevant
- Biorcor BCR (pericardial),	to 1624	Q5.89.02	not relevant
- Bio-flo (pericardial),	to 1624	Q5.89.03	not relevant
- Carpentier Edwards CE (porcine),	to 1624	Q5.89.04	not relevant
- Carpentier Edwards CEP (pericardial),	to 1624	Q5.89.05	not relevant
- Carpentier Edwards supra-annular CES (porcine),	to 1624	Q5.89.06	not relevant
- Hancock HA (porcine),	to 1624	Q5.89.07	not relevant
- Hancock HA2 (porcine),	to 1624	Q5.89.08	not relevant
- Intact NT = XEN (porcine),	to 1624	Q5.89.09	not relevant
- ISP Inescu Shiley (pericardial),	to 1624	Q5.89.10	not relevant
- Killingbeck KLK (porcine),	to 1624	Q5.89.11	not relevant
- Lotta L1 = St Jude Bio-Implant SJB (porcine),	to 1624	Q5.89.12	not relevant
- Ross Steriles ROSS (porcine),	to 1624	Q5.89.13	not relevant
- Sorin pericarbon tissue SOB (pericardial),	to 1624	Q5.89.14	not relevant
- Tascor TAS (porcine),	to 1624	Q5.89.15	not relevant
- Tissue Tech TT (porcine),	to 1624	Q5.89.16	not relevant
- Wessex WX (porcine),	to 1624	Q5.89.17	not relevant
- Xenomedica XAG (porcine),	to 1624	Q5.89.18	not relevant
- Contegra bovine valved jugular vein,	to 1624	Q5.89.19	not relevant
- Shell High no-react valve (porcine),	to 1624	Q5.89.20	not relevant
- bovine jugular vein,	to 1624	Q5.89.28	not relevant
- bovine jugular vein: Contegra,	to 1624	Q5.89.23	not relevant
no entry	to 1624	not relevant	

1623 @ Valve and-or conduit insertion using mechanical prosthesis - qualifiers

- mechanical valve prosthesis,	to 1624	Q5.82.00	not relevant
- mechanical valve with prosthetic tube (composite),	to 1624	Q5.83.06	not relevant
- tilting disc type,	to 1624	Q5.82.25	not relevant
- caged ball type,	to 1624	Q5.82.26	not relevant
- bi-leaflet type,	to 1624	Q5.82.27	not relevant
- AngiCor ANG = Aortech AOT = Ultracor ULC (disc),	to 1624	Q5.82.02	not relevant
- Bicer-val BIC (disc),	to 1624	Q5.82.03	not relevant
- Bicarbon (disc),	to 1624	Q5.82.04	not relevant
- Bjork Shiley BSM (disc),	to 1624	Q5.82.05	not relevant
- Carbomedics CAR (hemi-disc),	to 1624	Q5.82.06	not relevant
- Duromedics DM (hemi-disc),	to 1624	Q5.82.07	not relevant
- Jyros JYROS (hemi-disc),	to 1624	Q5.82.08	not relevant
- St Jude Medical SJM (hemi-disc),	to 1624	Q5.82.09	not relevant
- Medtronic Hal MED (disc),	to 1624	Q5.82.10	not relevant
- Mitral Medical P (Mitroflo) MMP,	to 1624	Q5.82.11	not relevant
- Omniscience OM (disc),	to 1624	Q5.82.12	not relevant
- Starr Edwards SE (ball),	to 1624	Q5.82.13	not relevant
- Sorin Carbocast SOM (disc),	to 1624	Q5.82.14	not relevant
- Sorin Alcarbon SO2 (disc),	to 1624	Q5.82.15	not relevant
no entry	to 1624	not relevant	

1624 @ Techniques for implantation of valves

- coronary button reimplantation technique (Bentall),	to 1625	Q5.84.19	not relevant
- graft as subcoronary cylinder,	to 1625	Q5.84.05	not relevant
- using graft inclusive of sinus of Valsalva,	to 1625	Q5.84.21	not relevant
- using conventional tube graft without sinus of Valsalva,	to 1625	Q5.84.22	not relevant
- using miniroot technique,	to 1625	Q5.84.09	not relevant
- using coronary subscalloped technique,	to 1625	Q5.84.10	not relevant
- using inclusion cylinder technique,	to 1625	Q5.84.11	not relevant
- using coronary artery interposition tube (Cabrol),	to 1625	Q5.84.20	not relevant
- with reduction 'annuloplasty',	to 1625	Q5.84.14	not relevant
- with reduction aortoplasty,	to 1625	Q5.84.15	not relevant
- with reduction 'annuloplasty' & aortoplasty,	to 1625	Q5.84.16	not relevant
- with 'annular' enlargement through noncoronary sinus (Nicks),	to 1000	Q5.17.51	not relevant
- with 'annular' enlargement through left-noncoronary commissure (Marougiann),	to 1000	Q5.17.52	not relevant
- with 'annular' enlargement not part of Konno aortoventriculoplasty procedure,	to 1625	Q5.17.55	not relevant
- with annular enlargement other than Konno-Nicks-Marougiann techniques,	to 1625	Q5.17.56	not relevant
- with Dacron encasement of autograft,	to 1625	Q5.84.17	not relevant
Pulmonary valvular replacement codes	to 1127	not relevant	
no entry	to 1625	not relevant	

1625 @ Position chosen to implant valve

- valve implanted at annular level,	to 1665	Q5.83.31	not relevant
- valve implanted at subannular level,	to 1665	Q5.83.32	not relevant
- valve implanted at supraannular level,	to 1665	Q5.83.33	not relevant
no entry	to 1665	not relevant	

_____ End of branch _____

1630 @ Materials for conduit-shunt construction - qualifiers

Conduit-shunt construction using homograft material	to 1632	not relevant	
Conduit-shunt construction using heterograft bioprostheses	to 1622	not relevant	
Conduit-shunt construction using prosthetic tube	to 1634	not relevant	
Conduits used in coronary artery bypass graft (CABG) procedures	to 1635	not relevant	
- using pulmonary autograft,	to 1000	Q5.95.01	not relevant
- using autologous pericardial roll,	to 1665	Q5.95.25	not relevant
- using autologous pericardial roll encased in wrap,	to 1608	Q5.95.14	not relevant
- using nonhomograft,	to 1665	Q5.95.03	not relevant
- with constructed bicuspid valve,	to 1619	Q5.95.18	not relevant
- composite conduit,	to 1000	Q5.95.16	not relevant
- bifurcated conduit,	to 1630	Q5.95.21	not relevant
- using material (DESCRIBE),	to 1665	Q5.95.02	not relevant
- with patch augmentation of conduit,	to 1630	Q5.95.04	not relevant
- with patch augmentation of distal conduit,	to 1630	Q5.95.05	not relevant
- with patch augmentation of distal conduit (no proximal patch),	to 1630	Q5.95.22	not relevant
- with patch augmentation of proximal conduit,	to 1630	Q5.95.06	not relevant
- with patch augmentation of proximal conduit (no distal patch),	to 1630	Q5.95.23	not relevant
- with patch augmentation of proximal conduit: 'hood' patch,	to 1610	Q5.95.19	not relevant
- with patch augmentation of proximal + distal conduit,	to 1630	Q5.95.07	not relevant
- without patch augmentation of conduit,	to 1630	Q5.95.08	not relevant
- with tapering of distal end,	to 1630	Q5.95.15	not relevant
- conduit inserted in orthotopic position,	to 1630	Q5.95.09	not relevant
- conduit inserted in heterotopic position,	to 1630	Q5.95.10	not relevant
- conduit inserted in accessory heterotopic position preserving native pulmonary valve & 'annulus',	to 1630	Q5.95.20	not relevant
- conduit inserted to left of aorta,	to 1630	Q5.95.11	not relevant
- conduit inserted to right of aorta,	to 1630	Q5.95.12	not relevant
- conduit inserted with side-to-side anastomosis ('top hat'),	to 1630	Q5.95.24	not relevant
Materials for patches	to 1608	not relevant	
no entry	to 1000	not relevant	

1632 @ Conduit construction using homograft material - qualifiers

no entry	to 1000	not relevant	
- using homograft,	to 1665	Q5.96.01	not relevant
- using pulmonary valve homograft,	to 1665	Q5.96.02	not relevant
- using pulmonary trunk homograft,	to 1665	Q5.96.03	not relevant
- using pulmonary trunk & bifurcation homograft,	to 1665	Q5.96.04	not relevant
- using aortic valve homograft,	to 1665	Q5.96.05	not relevant
- using ascending aorta homograft,	to 1665	Q5.96.06	not relevant
- using monocusp homograft,	to 1665	Q5.96.07	not relevant
- using aortic valve monocusp homograft,	to 1665	Q5.96.08	not relevant
- using fresh homograft,	to 1665	Q5.96.09	not relevant
- using cryopreserved homograft,	to 1665	Q5.96.10	not relevant
- using homograft with prosthetic extension,	to 1665	Q5.96.11	not relevant
- using valveless homograft tube,	to 1665	Q5.96.12	not relevant

1634 @ Conduit-shunt construction using prosthetic tube - qualifiers

no entry	to 1000	not relevant	
- using prosthetic tube,	to 1665	Q5.98.01	not relevant
- using PTFE (Goretex-Impra) tube,	to 1665	Q5.98.02	not relevant
- using Dacron tube,	to 1665	Q5.98.03	not relevant

_____ End of branch _____

1635 @ Conduits used in coronary artery bypass graft (CABG) procedure - qualifiers

- coronary bypass graft,	to 1000	Q5.99.29	not relevant
- coronary bypass graft unspecified,	to 1000	Q5.99.24	not relevant
- autologous bypass graft,	to 1000	Q5.99.00	not relevant
- nonautologous biological bypass graft,	to 1000	Q5.99.49	not relevant
- nonbiological bypass graft,	to 1000	Q5.99.50	not relevant

- arterial & vein grafts,	to 1000	Q5.99.31	not relevant
- vein graft,	to 1636	Q5.99.37	not relevant
- vein graft(s) only,	to 1636	Q5.99.32	not relevant
- arterial graft,	to 1000	Q5.99.51	not relevant
- arterial graft(s) only,	to 1000	Q5.99.33	not relevant
- with or without vein graft(s),	to 1000	Q5.99.34	not relevant
- arterial autograft graft,	to 1000	Q5.99.01	not relevant
- internal mammary (thoracic) artery graft,	to 1000	Q5.99.39	not relevant
- right internal mammary (thoracic) artery graft,	to 1000	Q5.99.02	not relevant
- left internal mammary (thoracic) artery graft,	to 1000	Q5.99.03	not relevant
- subclavian artery graft,	to 1000	Q5.99.19	not relevant
- right subclavian artery graft,	to 1000	Q5.99.20	not relevant
- left subclavian artery graft,	to 1000	Q5.99.21	not relevant
- gastropiloric artery graft,	to 1000	Q5.99.04	not relevant
- splenic artery graft,	to 1000	Q5.99.05	not relevant
- radial artery graft,	to 1000	Q5.99.22	not relevant
- right radial artery graft,	to 1000	Q5.99.06	not relevant
- left radial artery graft,	to 1000	Q5.99.07	not relevant
- both right & left radial arterial grafts,	to 1000	Q5.99.38	not relevant
- right epigastric artery graft,	to 1000	Q5.99.08	not relevant
- left epigastric artery graft,	to 1000	Q5.99.09	not relevant
- prosthetic conduit,	to 1662	Q5.99.48	not relevant
- PTFE conduit,	to 1662	Q5.99.17	not relevant
- Bovine internal mammary (thoracic) artery graft,	to 1000	Q5.99.18	not relevant
- graft procured by assistant,	to 1000	Q5.99.35	not relevant
- graft procured by surgeon,	to 1000	Q5.99.36	not relevant
- unspecified vessel type: native or graft,	to 1000	Q5.99.52	not relevant
no entry	to 1000	not relevant	

1636@ Venous grafts for coronary procedure - qualifiers

- autologous vein graft,	to 1000	Q5.99.10	not relevant
- saphenous vein graft,	to 1000	Q5.99.23	not relevant
- long (greater) saphenous vein graft,	to 1000	Q5.99.11	not relevant
- right long (greater) saphenous vein graft,	to 1000	Q5.99.40	not relevant
- left long (greater) saphenous vein graft,	to 1000	Q5.99.41	not relevant
- short (lesser) saphenous vein graft,	to 1000	Q5.99.12	not relevant
- right short (lesser) saphenous vein graft,	to 1000	Q5.99.42	not relevant
- left short (lesser) saphenous vein graft,	to 1000	Q5.99.43	not relevant
- right arm vein graft,	to 1000	Q5.99.13	not relevant
- left arm vein graft,	to 1000	Q5.99.14	not relevant
- cephalic vein graft,	to 1000	Q5.99.44	not relevant
- right cephalic vein graft,	to 1000	Q5.99.45	not relevant
- left cephalic vein graft,	to 1000	Q5.99.46	not relevant
- human umbilical vein graft,	to 1000	Q5.99.47	not relevant
- nonautologous graft,	to 1000	Q5.99.15	not relevant
- stored allograft vein graft,	to 1000	Q5.99.16	not relevant
no entry	to 1000	not relevant	

End of branch

1640 @ Materials for ring repair of valves - qualifiers

no entry	to 1000	not relevant	
- prosthetic ring,	to 1665	Q5.85.00	not relevant
- Carpentier ring,	to 1665	Q5.85.01	not relevant
- Duran ring,	to 1665	Q5.85.02	not relevant
- Angelini ring,	to 1665	Q5.85.03	not relevant
- C-ring,	to 1665	Q5.85.04	not relevant
- biodegradable ring,	to 1665	Q1.84.05	not relevant
- flexible ring,	to 1665	Q1.84.06	not relevant
- flexible adjustable ring (Puig-Massana),	to 1665	Q1.84.08	not relevant
- non-flexible ring,	to 1665	Q1.84.07	not relevant
- partial ring (Cosgrove-Edwards),	to 1665	Q1.84.09	not relevant
- ring (DESCRIBE),	to 1665	Q5.85.19	not relevant

End of branch

1645 @ Materials and techniques for banding procedures: qualifiers

- silicone rubber sheet,	to 1000	Q5.83.71	not relevant
- adjustable band,	to 1000	Q5.83.72	not relevant
- umbilical tape,	to 1000	Q5.83.76	not relevant
- expanded polytetrafluoroethylene (PTFE) suture,	to 1000	Q5.83.78	not relevant
- biodegradable band,	to 1000	Q5.83.73	not relevant
- non-biodegradable band,	to 1000	Q5.83.74	not relevant
- with preceding incisional reduction plasty (Laks),	to 1000	Q5.83.75	not relevant
- intraluminal technique,	to 1000	Q5.83.77	not relevant
- band material unknown,	to 1000	Q5.83.79	not relevant
- with balloon dilatable band,	to 1000	Q5.83.80	not relevant
no entry	to 1000	not relevant	

1650 @ Materials for placement of stents - qualifiers

Valved stents	to 1652	not relevant	
- bare stent,	to 1651	Q5.86.15	not relevant
- not premounted stent,	to 1665	Q5.86.00	not relevant
- expandable metal stent,	to 1665	Q5.86.01	not relevant
- expandable metal stent: Palmaz,	to 1665	Q5.86.11	not relevant
- premounted on balloon stent,	to 1665	Q5.86.14	not relevant
- balloon expandable stent,	to 1665	Q5.86.02	not relevant
- self expanding stent,	to 1665	Q5.86.24	not relevant
- self expanding Z stent,	to 1665	Q5.86.03	not relevant
- self expanding Wall stent,	to 1665	Q5.86.04	not relevant
- self expanding nitinol stent,	to 1665	Q5.86.20	not relevant
- flexible expandable stent,	to 1665	Q5.86.05	not relevant
- flexible expandable stent with PTFE graft (covered),	to 1665	Q5.86.06	not relevant
- double strut intrastent,	to 1665	Q5.86.07	not relevant
- covered stent,	to 1665	Q5.86.10	not relevant
- self expanding covered stent,	to 1665	Q5.86.29	not relevant
- covered stent: PTFE (Coretex),	to 1665	Q5.86.16	not relevant
- covered stent: polyester,	to 1665	Q5.86.17	not relevant
- covered stent: Atrium iCAST,	to 1665	Q5.86.28	not relevant
- silicone stent,	to 1665	Q5.86.12	not relevant
- drug eluting stent,	to 1665	Q5.86.13	not relevant
- nitinol stent,	to 1665	Q5.86.18	not relevant
- stainless steel stent,	to 1665	Q5.86.19	not relevant
- cobalt-chromium stent,	to 1665	Q5.86.37	not relevant
- platinum-chromium stent,	to 1665	Q5.86.38	not relevant
- bifurcating stent,	to 1665	Q5.86.21	not relevant
- biodegradable stent,	to 1665	Q5.86.22	not relevant
- stent material (DESCRIBE),	to 1665	Q5.86.09	not relevant
- stent details unknown or unspecified,	to 1665	Q5.86.23	not relevant
no entry	to 1665	not relevant	

1651 @ Bare stents qualifiers

- CORDIS® Genesis	to 1665	Q5.86.30	not relevant
- IntraTherapeutic®	to 1665	Q5.86.31	not relevant
- Palmaz	to 1665	Q5.86.32	not relevant
- BostonScientific Wallstent®	to 1665	Q5.86.33	not relevant
- NuMed CP Stent®	to 1665	Q5.86.34	not relevant
- Coronary premounted stents	to 1665	Q5.86.35	not relevant
no entry	to 1665	not relevant	

1652 @ Valved stents qualifiers

- valved stent,	to 1665	Q5.86.25	not relevant
- valved stent: bovine venous,	to 1665	Q5.86.08	not relevant
- Melody transcatheter pulmonary valve (bovine jugular),	to 1665	Q5.86.26	not relevant
- CoreValve aortic prosthesis (porcine pericardial),	to 1665	Q5.86.27	not relevant
- Cribier-Edwards equine pericardial aortic valve,	to 1665	Q5.86.36	not relevant
- Edwards Sapien bovine pericardial valve,	to 1665	Q5.86.39	not relevant
no entry	to 1665	not relevant	

End of branch

1655 @ Embolus-thrombus qualifiers

- acute embolus,	to 1000	Q5.29.80	not relevant
- chronic embolus,	to 1000	Q5.29.81	not relevant
- air embolism,	to 1800	Q1.57.42	999.1 T81.7 not relevant

- thromboembolus,	to 1000	Q5.29.82	not relevant
- thrombus in situ,	to 1000	Q5.29.83	not relevant
- foreign body,	to 2970	Q5.29.84	not relevant
- bullet,	to 1000	Q5.29.85	not relevant
- embolised device,	to 1660	Q5.29.86	not relevant
- coil,	to 1661	Q1.93.03	not relevant
- stent,	to 1650	Q5.29.91	not relevant
- previously placed transcatheter device,	to 1660	Q5.29.87	not relevant
- tumour,	to 1000	Q5.29.88	not relevant
- parasite,	to 1000	Q5.29.89	not relevant
- infected material,	to 1000	Q5.29.90	not relevant
no entry	to 1000	not relevant	

End of branch

1660 @ Materials for vascular occlusion, defect closure and flow reduction - qualifiers

- using coil,	to 1661	Q5.88.01	not relevant
- using multiple coils,	to 1661	Q5.88.13	not relevant
- using memory-shaped coil,	to 1661	Q5.88.07	not relevant
- intravascularly placed coil,	to 1661	Q5.88.62	not relevant
- coil placed within the heart,	to 1661	Q5.88.63	not relevant
- intravascularly placed device,	to 1661	Q5.88.64	not relevant
- device placed within the heart,	to 1661	Q5.88.65	not relevant
- using balloon,	to 1665	Q5.88.02	not relevant
- occlusion material,	to 1000	Q5.88.05	not relevant
- using self centering device,	to 1665	Q5.88.36	not relevant
- using Rashkind device (double umbrella),	to 1665	Q5.88.06	not relevant
- using clamshell device,	to 1665	Q5.88.34	not relevant
- using keaton plug,	to 1665	Q5.88.35	not relevant
- using septal occluder device,	to 1665	Q5.88.41	not relevant
- using Amplatzer atrial septal occluder,	to 1665	Q5.88.08	not relevant
- using Amplatzer multi-fenestrated septal occluder (Cribiform),	to 1665	Q5.88.48	not relevant
- using Amplatzer ductal plug,	to 1662	Q5.88.14	not relevant
- using Amplatzer flow regulator device,	to 1665	Q5.88.18	not relevant
- using Amplatzer swivel disk occluder,	to 1665	Q5.88.19	not relevant
- using Amplatzer asymmetric perimembranous ventricular septal defect (VSD) occluder,	to 1665	Q5.88.31	not relevant
- using Amplatzer muscular ventricular septal defect (VSD) device,	to 1665	Q5.88.37	not relevant
- using Amplatzer patent foramen ovale (PFO) device,	to 1665	Q5.88.38	not relevant
- using Amplatzer vascular plug,	to 1662	Q5.88.39	not relevant
- using Sotasete atrial septal occluder,	to 1665	Q5.88.42	not relevant
- using Sideris device,	to 1665	Q5.88.10	not relevant
- using Sideris buttonseal device,	to 1665	Q5.88.32	not relevant
- using Sideris patch occlusion device,	to 1665	Q5.88.33	not relevant
- using Angel wings device,	to 1665	Q5.88.11	not relevant
- using Cardioseal device,	to 1665	Q5.88.12	not relevant
- using Cardioseal ASD device,	to 1665	Q5.88.43	not relevant
- using Cardioseal ventricular septal defect (VSD) device,	to 1665	Q5.88.44	not relevant
- using Starflex device,	to 1665	Q5.88.15	not relevant
- using Starflex ASD device,	to 1665	Q5.88.45	not relevant
- using Starflex ventricular septal defect (VSD) device,	to 1665	Q5.88.46	not relevant
- using gel foam,	to 1000	Q5.88.16	not relevant
- using gel foam: PVA particles,	to 1000	Q5.88.47	not relevant
- using Helix septal occluder device,	to 1665	Q5.88.17	not relevant
- Gianturco-Grifka occlusion device,	to 1665	Q5.88.49	not relevant
- using device or coil,	to 1665	Q5.88.09	not relevant
- device unknown or unspecified,	to 1665	Q5.88.40	not relevant
- device (describe),	to 1665	Q5.88.52	not relevant
no entry	to 1665	not relevant	

1661 @ Materials and types of coils

- steel Dacron stranded coil,	to 1665	Q5.88.21	not relevant
- platinum fibre coil,	to 1665	Q5.88.22	not relevant
- platinum fibre coil: Tornado,	to 1665	Q5.88.61	not relevant
- interlocking detachable platinum coil,	to 1665	Q5.88.23	not relevant
- Gianturco steel fibre coil,	to 1665	Q5.88.24	not relevant
- detachable coil,	to 1665	Q5.88.25	not relevant
- detachable coil: Flipper steel,	to 1665	Q5.88.53	not relevant
- three loop coil,	to 1665	Q5.88.26	not relevant
- four loop coil,	to 1665	Q5.88.27	not relevant
- five loop coil,	to 1665	Q5.88.28	not relevant
- Cook PDA coil,	to 1665	Q5.88.50	not relevant
- PFM coil,	to 1665	Q5.88.51	not relevant
- MReye coil,	to 1665	Q5.88.54	not relevant
- microcoils,	to 1665	Q5.88.55	not relevant
- platinum microcoils,	to 1665	Q5.88.56	not relevant
- platinum microcoils: Hissel,	to 1665	Q5.88.57	not relevant
- platinum microcoils: MicroNester,	to 1665	Q5.88.58	not relevant
- platinum microcoils: Tornado,	to 1665	Q5.88.59	not relevant
- Nit-Occlud coil system,	to 1665	Q5.88.60	not relevant
- vascular occlusion coil (DESCRIBE),	to 1665	Q5.88.29	not relevant
- device unknown or unspecified,	to 5	Q5.88.40	not relevant
no entry	to 1665	not relevant	

1662 @ Sizes of closure device or vascular plug

- 5x4 mm,	to 1000	Q5.79.01	not relevant
- 6x4 mm,	to 1000	Q5.79.02	not relevant
- 8x6 mm,	to 1000	Q5.79.03	not relevant
- 10x8 mm,	to 1000	Q5.79.04	not relevant
- 12x10mm,	to 1000	Q5.79.05	not relevant
- 14x12 mm,	to 1000	Q5.79.06	not relevant
- 16x14 mm,	to 1000	Q5.79.07	not relevant
- closure device size (DESCRIBE),	to 1000	Q5.79.19	not relevant
no entry	to 1000	not relevant	

1663 @ Types and techniques for transluminal balloon dilation procedures - qualifiers

- single balloon,	to 1665	Q5.79.51	not relevant
- two balloons,	to 1665	Q5.79.52	not relevant
- high pressure balloon,	to 1665	Q5.79.53	not relevant
- balloon within balloon (BB),	to 1665	Q5.79.54	not relevant
- cutting balloon,	to 1665	Q5.79.55	not relevant
- coronary balloon,	to 1665	Q5.79.56	not relevant
- sequential dilation with balloons of increasing size,	to 1665	Q5.79.57	not relevant
- inflation pressure less than 8 atmospheres,	to 1665	Q5.79.58	not relevant
- inflation pressure greater than or equal to 8 atmospheres,	to 1665	Q5.79.59	not relevant
Site of cardiac conduit: qualifiers	to 2240	not relevant	
no entry	to 1665	not relevant	

End of branch

1665 @ Diameter-size of shunt-conduit-balloon-device-coil-valve used in procedure

- size unspecified,	to 1000	Q5.95.50	not relevant
- 2 mm,	to 1000	Q5.95.51	not relevant
- 2.5 mm,	to 1000	Q5.95.52	not relevant
- 3 mm,	to 1000	Q5.95.53	not relevant
- 3.5 mm,	to 1000	Q5.95.54	not relevant
- 4 mm,	to 1000	Q5.95.55	not relevant
- 5 mm,	to 1000	Q5.95.56	not relevant
- 6 mm,	to 1000	Q5.95.57	not relevant
- 6.5mm	to 1000	Q5.95.93	not relevant
- 7 mm,	to 1000	Q5.95.58	not relevant
- 8 mm,	to 1000	Q5.95.59	not relevant
- 9 mm,	to 1000	Q5.95.60	not relevant
- 10 mm,	to 1000	Q5.95.61	not relevant
- 11 mm,	to 1000	Q5.95.62	not relevant
- 12 mm,	to 1000	Q5.95.63	not relevant
- 13 mm,	to 1000	Q5.95.64	not relevant
- 14 mm,	to 1000	Q5.95.65	not relevant
- 15 mm,	to 1000	Q5.95.66	not relevant
- 16 mm,	to 1000	Q5.95.67	not relevant
- 17 mm,	to 1000	Q5.95.68	not relevant
- 18 mm,	to 1000	Q5.95.69	not relevant
- 19 mm,	to 1000	Q5.95.70	not relevant
- 20 mm,	to 1000	Q5.95.71	not relevant
- 21 mm,	to 1000	Q5.95.72	not relevant
- 22 mm,	to 1000	Q5.95.73	not relevant
- 23 mm,	to 1000	Q5.95.74	not relevant
- 24 mm,	to 1000	Q5.95.75	not relevant

- 25 mm,	to 1000	Q5.95.76	not relevant
- 26 mm,	to 1000	Q5.95.77	not relevant
- 27 mm,	to 1000	Q5.95.78	not relevant
- 28 mm,	to 1000	Q5.95.79	not relevant
- 29 mm,	to 1000	Q5.95.80	not relevant
- 30 mm,	to 1000	Q5.95.81	not relevant
- 31 mm,	to 1000	Q5.95.82	not relevant
- 32 mm,	to 1000	Q5.95.83	not relevant
- 33 mm,	to 1000	Q5.95.84	not relevant
- 34 mm,	to 1000	Q5.95.85	not relevant
- 35 mm,	to 1000	Q5.95.86	not relevant
- 36 mm,	to 1000	Q5.95.87	not relevant
- 37 mm,	to 1000	Q5.95.88	not relevant
- 38 mm,	to 1000	Q5.95.90	not relevant
- 39 mm,	to 1000	Q5.95.91	not relevant
- 40 mm,	to 1000	Q5.95.92	not relevant
- size (DESCRIBE),	to 1000	Q5.95.89	not relevant
Specific pulmonary vein involved in procedure	to 1681	not relevant	
Specific pulmonary artery involved in procedure	to 1680	not relevant	
Specific systemic vein involved in procedure	to 3220	not relevant	
Specific systemic artery involved in procedure	to 3230	not relevant	
Specific cardiac site involved in procedure	to 3205	not relevant	
Type of ventricular septal defect (VSD) involved in procedure - qualifiers	to 1101	not relevant	
no entry	to 1000	not relevant	

_____ End of branch _____

1670 @ Materials and methods for assist devices & venous access devices - qualifiers

- pneumatic driven device,	to 1000	Q5.87.51	not relevant
- centrifugal pump device,	to 1000	Q5.87.52	not relevant
- nonpulsatile device without membrane oxygenator,	to 1000	Q5.77.50	not relevant
- axial flow pump,	to 1000	Q5.77.51	not relevant
- paracorporeal pulsatile device,	to 1000	Q5.77.52	not relevant
- implantable pulsatile device,	to 1000	Q5.77.53	not relevant
- insertion great vessels-cardiac chambers,	to 3205	Q5.87.53	not relevant
- insertion using neck vessels,	to 3205	Q5.87.54	not relevant
- insertion using femoral vessels,	to 3205	Q5.87.55	not relevant
- venoarterial,	to 3205	Q5.87.56	not relevant
- venovenous,	to 3220	Q5.87.57	not relevant
- rapid deployment,	to 1000	Q5.77.54	not relevant
- perioperative deployment,	to 1000	Q5.77.55	not relevant
- assist device (DESCRIBE),	to 3205	Q5.87.59	not relevant
no entry	to 1000	not relevant	

1671 @ Long term venous access line qualifiers

- Swann Ganz catheter,	to 3205	Q5.87.62	not relevant
- Portacath,	to 3220	Q5.87.58	not relevant
- Permacath,	to 3220	Q5.87.63	not relevant
- Hickman catheter,	to 3220	Q5.87.60	not relevant
- Broviac catheter,	to 3220	Q5.87.61	not relevant
- Groshong catheter,	to 3220	Q5.87.64	not relevant
- venous access device (DESCRIBE),	to 3205	Q5.87.69	not relevant
no entry	to 3205	not relevant	

_____ End of branch _____

1680 @ Pulmonary artery(ies) involved in procedure - qualifiers

- pulmonary trunk,	to 1000	Q1.10.46	not relevant
- pulmonary arterial branch,	to 1000	Q1.10.66	not relevant
- pulmonary arterial bifurcation,	to 1000	Q5.87.84	not relevant
- right pulmonary artery,	to 1000	Q1.10.51	not relevant
- right pulmonary artery: proximal to hilar bifurcation (central),	to 1000	Q1.10.61	not relevant
- distal right pulmonary artery: at or beyond hilar bifurcation,	to 1000	Q1.10.69	not relevant
- right pulmonary artery: segmental (sublobar) branch,	to 1000	Q5.87.74	not relevant
- right upper lobe artery,	to 1000	Q1.10.52	not relevant
- right middle lobe artery,	to 1000	Q1.10.53	not relevant
- right lower lobe artery,	to 1000	Q1.10.54	not relevant
- left pulmonary artery,	to 1000	Q1.10.55	not relevant
- left pulmonary artery: proximal to hilar bifurcation (central),	to 1000	Q1.10.62	not relevant
- distal left pulmonary artery: at or beyond hilar bifurcation,	to 1000	Q1.10.70	not relevant
- left pulmonary artery: segmental (sublobar) branch,	to 1000	Q5.87.77	not relevant
- left upper lobe artery,	to 1000	Q1.10.56	not relevant
- lingular lobe artery,	to 1000	Q1.10.57	not relevant
- left lower lobe artery,	to 1000	Q1.10.58	not relevant
- right + left pulmonary arteries,	to 1000	Q1.10.47	not relevant
- right + left pulmonary arteries: proximal to hilar bifurcation (central),	to 1000	Q1.10.63	not relevant
- right + left pulmonary arteries: proximal to hilar bifurcation + carina,	to 1000	Q5.87.86	not relevant
- right + left pulmonary arteries: at or beyond hilar bifurcation (distal),	to 1000	Q5.87.91	not relevant
- proximal to hilar bifurcation (central),	to 1000	Q1.10.67	not relevant
- at or beyond hilar bifurcation (distal),	to 1000	Q1.10.68	not relevant
- distal to lobar bifurcation,	to 1000	Q5.87.88	not relevant
- proximal pulmonary artery to hilar bifurcation (including carina),	to 1000	Q5.87.87	not relevant
Patch material qualifiers	to 1608	not relevant	
Stent material qualifiers	to 1650	not relevant	
Device material qualifiers	to 1660	not relevant	
Balloon dilation qualifiers	to 1663	not relevant	
Sizes (millimetres)	to 1665	not relevant	
no entry	to 1000	not relevant	

1681 @ Pulmonary vein(s) involved in procedure - qualifiers

- all pulmonary veins,	to 5	Q1.01.51	not relevant
- right pulmonary vein(s),	to 1000	Q1.01.52	not relevant
- right upper pulmonary vein,	to 1000	Q1.01.53	not relevant
- right lower pulmonary vein,	to 1000	Q1.01.54	not relevant
- right common pulmonary vein,	to 5	Q1.01.61	not relevant
- left pulmonary vein(s),	to 1000	Q1.01.55	not relevant
- left upper pulmonary vein,	to 1000	Q1.01.56	not relevant
- left lower pulmonary vein,	to 1000	Q1.01.57	not relevant
- left common pulmonary vein,	to 5	Q1.01.62	not relevant
- common pulmonary vein,	to 5	Q1.01.58	not relevant
- pulmonary vein (DESCRIBE),	to 5	Q1.01.59	not relevant
Patch material qualifiers	to 1608	not relevant	
Stent material qualifiers	to 1650	not relevant	
Device material qualifiers	to 1660	not relevant	
Balloon dilation qualifiers	to 1663	not relevant	
Sizes (millimetres)	to 1665	not relevant	
no entry	to 1000	not relevant	

1685 @ Fontan type connection qualifiers

- atriopulmonary connection,	to 1000	Q5.30.01	not relevant
- lateral atrial tunnel,	to 1000	Q5.30.02	not relevant
- intracardiac transatrial tunnel,	to 1000	Q5.30.03	not relevant
- extracardiac conduit,	to 1000	Q5.30.04	not relevant
- extracardiac lateral para-atrial tunnel,	to 1000	Q5.30.05	not relevant
- superior & inferior cavopulmonary connections performed in one operation,	to 1000	Q5.30.06	not relevant
- superior & inferior cavopulmonary connections performed in one operation in setting of azygos continuation of interrupted inferior caval vein,	to 1000	Q5.30.07	not relevant
- superior & inferior cavopulmonary connections performed in one operation not in setting of azygos continuation of interrupted inferior caval vein,	to 1000	Q5.30.08	not relevant
Qualifier codes for stent materials	to 1650	not relevant	
Qualifier codes for materials for vascular occlusion, defect closure and flow reduction	to 1660	not relevant	
Qualifier codes for types and techniques for transluminal balloon dilation procedures	to 1650	not relevant	
no entry	to 1000	not relevant	

1690 @ Characteristics of procedure & communication when creating an interchamber communication

- tiny,	to 967	Q1.27.70	not relevant
- small,	to 967	Q1.27.61	not relevant
- small-moderate,	to 967	Q1.27.71	not relevant
- moderate,	to 967	Q1.40.03	not relevant
- moderate-large,	to 967	Q1.27.72	not relevant
- large,	to 967	Q1.27.63	not relevant
- very large,	to 967	Q1.27.73	not relevant
- size unknown,	to 967	Q1.28.03	not relevant
- repeat procedure,	to 1000	Q5.81.27	not relevant
- at same procedure,	to 1000	Q5.81.32	not relevant

- as secondary procedure,	to 1000	Q5.81.33		not relevant
- intentional,	to 1800	Q1.91.01		not relevant
- inadvertent,	to 1800	Q1.91.02		not relevant
- as an isolated procedure,	to 1000	Q5.81.36		not relevant
- as a component of another procedure,	to 1000	Q5.81.37		not relevant
Functional characteristics of septal defects - qualifiers	to 967	not relevant		
no entry	to 1000	not relevant		

1700 @ Guidance modalities for cardiothoracic procedures - qualifiers

- under echo (ultrasound) guidance,	to 1000	Q5.91.31		not relevant
- under echo (ultrasound) guidance: transthoracic,	to 1000	Q5.91.32		not relevant
- under echo (ultrasound) guidance: tranoesophageal,	to 1000	Q5.91.33		not relevant
- under echo (ultrasound) guidance: epicardial,	to 1000	Q5.91.34		not relevant
- under fluoroscopic guidance,	to 1000	Q5.91.35		not relevant
- under magnetic resonance imaging (MRI) guidance,	to 1000	Q5.91.36		not relevant
- under computerised tomographic (CT) scanning guidance,	to 1000	Q5.91.37		not relevant

1701 @ Monitoring modalities for cardiothoracic procedures - qualifiers

- with electroencephalogram (EEG) monitoring,	to 1000	Q5.91.50		not relevant
- with electroencephalogram (EEG) monitoring and interpretation,	to 1000	Q5.91.51		not relevant
- with Near Infrared Spectroscopy (NIRS) monitoring,	to 1000	Q5.91.52		not relevant

END OF SECTION

1760 Medical therapy for cardiovascular diseases

Medical therapy for congenital and acquired heart disease	to 1761	not relevant		
Medical therapy for heart rhythm disorders	to 1765	not relevant		
Medical therapy for cardiovascular disease,	to 1	17.00.01	17.00.01	Medical therapy for cardiovascular disease,
Patient receiving gastro-oesophageal reflux disease (GORD) drug therapy,	to 1	17.10.50		
Patient receiving oxygen therapy,	to 1	17.10.51	17.00.01	Medical therapy for cardiovascular disease,

1761 Medical therapy for congenital and acquired heart disease

Medical therapy for congenital heart malformation,	to 1	17.01.01	17.00.01	Medical therapy for cardiovascular disease,
Arterial duct patency (PDA) maintained with prostaglandin E,	to 1	12.24.07	17.00.01	Medical therapy for cardiovascular disease,
Medical therapy for acquired heart disease,	to 1	17.10.01	17.00.01	Medical therapy for cardiovascular disease,
Medical therapy for endocarditis,	to 1	17.10.02	17.10.02	Medical therapy for endocarditis,
Patient receiving diuretic drug therapy,	to 1	17.10.03	17.00.01	Medical therapy for cardiovascular disease,
Patient receiving angiotensin converting enzyme (ACE) inhibitor therapy,	to 1	17.10.04	17.00.01	Medical therapy for cardiovascular disease,
Patient receiving beta blocker drug therapy,	to 1	17.10.05	17.00.01	Medical therapy for cardiovascular disease,
Patient receiving anticoagulant drug therapy,	to 1	17.10.06	17.00.01	Medical therapy for cardiovascular disease,
Patient receiving anticoagulant drug therapy: antiplatelet,	to 1	17.10.07	17.00.01	Medical therapy for cardiovascular disease,
Patient receiving anticoagulant drug therapy: Coumadin-Warfarin,	to 1	17.10.08	17.00.01	Medical therapy for cardiovascular disease,
Patient receiving lipid regulating drug therapy,	to 1	17.10.09	17.00.01	Medical therapy for cardiovascular disease,
Patient receiving digoxin,	to 1	17.10.10	17.00.01	Medical therapy for cardiovascular disease,
Patient receiving angiotensin II receptor antagonist drug therapy,	to 1	17.10.11	17.00.01	Medical therapy for cardiovascular disease,
Patient receiving pulmonary vasodilator drug therapy,	to 1	17.10.12	17.00.01	Medical therapy for cardiovascular disease,
Patient receiving pulmonary vasodilator drug therapy: endothelial receptor antagonist,	to 1	17.10.13	17.00.01	Medical therapy for cardiovascular disease,
Patient receiving pulmonary vasodilator drug therapy: phosphodiesterase type 5 inhibitor,	to 1	17.10.14	17.00.01	Medical therapy for cardiovascular disease,
Patient received fibrinolytic drug therapy,	to 1	17.10.15	17.00.01	Medical therapy for cardiovascular disease,
Patient receiving glyceryl trinitrate drug therapy,	to 1	17.10.16	17.00.01	Medical therapy for cardiovascular disease,
Patient received cardiac inotropic support therapy,	to 1	17.10.17	17.00.01	Medical therapy for cardiovascular disease,

1765 Medical therapy for heart rhythm disorders

Patient receiving antiarrhythmic drug therapy,	to 1	17.10.20	17.00.01	Medical therapy for cardiovascular disease,
Patient receiving antiarrhythmic drug therapy: membrane stabiliser (Class I),	to 1	17.10.21	17.00.01	Medical therapy for cardiovascular disease,
Patient receiving antiarrhythmic drug therapy: beta blocker (Class II),	to 1	17.10.22	17.00.01	Medical therapy for cardiovascular disease,
Patient receiving antiarrhythmic drug therapy: amiodarone (Class III),	to 1	17.10.23	17.00.01	Medical therapy for cardiovascular disease,
Patient receiving antiarrhythmic drug therapy: calcium channel blocker (Class IV),	to 1	17.10.24	17.00.01	Medical therapy for cardiovascular disease,

END OF SECTION

1780 Access to cardiovascular system & intrathoracic organs, approaches & cardiac incisions

Access to intrathoracic organs	to 1781	not relevant		
Cardiac incisions, approaches and closures	to 1786	not relevant		
Approach to repair intracardiac lesion - qualifiers	to 1787	not relevant		
Procedures involving previous chest wall incisions and delayed sternal closure	to 1575	not relevant		
Retropertoneal approach for transluminal access,	to 3205	12.41.24		No equivalent

1781 Access to intrathoracic organs

Transthoracic approach,	to 1000	12.41.00		No equivalent
Open surgical approach,	to 1000	12.41.20		No equivalent
Median sternotomy approaches	to 1782	not relevant		
Thoracotomy & submammary approaches	to 1783	not relevant		
Hybrid approach (combined surgical & transluminal),	to 1780	12.41.30	12.41.30	Hybrid approach (combined surgical & transluminal),
Subxyphoid approach,	to 1000	12.40.05		No equivalent
Video-assisted thoracoscopic approach (VATS),	to 1795	12.40.06	12.40.06	Video-assisted thoracoscopic approach (VATS),
Percutaneous approach,	to 1000	12.41.19		No equivalent
Transluminal approach,	to 1791	12.41.22		No equivalent
Transluminal approach: percutaneous,	to 1791	12.40.07		No equivalent
Transluminal approach: cutdown,	to 1791	12.41.23		No equivalent
Transthoracic approach: percutaneous,	to 1791	12.41.21		No equivalent
Intraoperative transcatheter open approach,	to 1791	12.40.10		No equivalent
Transamniotic approach,	to 1791	12.40.08		No equivalent
Percutaneous transamniotic approach,	to 990	12.41.10		No equivalent
Open transuterine transamniotic approach,	to 990	12.41.11		No equivalent
Robotic surgical approach,	to 1000	12.40.15	12.40.15	Robotic surgical approach,
Reopening of previous thoracic incision,	to 1000	12.40.11		No equivalent
Minimally invasive procedure,	to 1000	12.40.13	12.40.13	Minimally invasive procedure,
Parasternal incision,	to 1000	12.40.14		No equivalent
Parasternal incision: vertical,	to 1000	12.41.15		No equivalent
Parasternal incision: vertical right,	to 1000	12.41.16		No equivalent
Parasternal incision: vertical left,	to 1000	12.41.17		No equivalent
Pectus horizontal incision,	to 1000	12.40.19		No equivalent
Pectus vertical incision,	to 1000	12.40.20		No equivalent
Approach to heart unknown,	to 1000	12.41.91		No equivalent
Approach to heart (DESCRIBE),	to 1000	12.40.09		No equivalent

1782 Median sternotomy approaches

Median sternotomy,	to 1796	12.40.01		No equivalent
Median sternotomy: full,	to 1796	12.41.80		No equivalent
Median sternotomy with vertical skin incision,	to 1796	12.40.21		No equivalent
Median sternotomy with submammary skin incision,	to 1796	12.40.22		No equivalent
Median sternotomy with bilateral submammary skin incision,	to 1796	12.41.81		No equivalent
Median sternotomy with 'Y' skin incision,	to 1796	12.40.23		No equivalent
Median sternotomy with abdominal extension,	to 1796	12.40.24		No equivalent
Median sternotomy with lateral thoracic extension,	to 1796	12.40.25		No equivalent
Median sternotomy with cervical collar extension,	to 1796	12.40.26		No equivalent
Median sternotomy: partial,	to 1796	12.40.27		No equivalent
Median sternotomy: partial with lower sternal split,	to 1796	12.41.82		No equivalent
Median sternotomy: partial with upper sternal split,	to 1796	12.41.83		No equivalent
Median sternotomy: partial with transxyphoid approach,	to 1796	12.41.84		No equivalent
Median sternotomy - redo,	to 1000	12.40.28		No equivalent
Median sternotomy - redo x 1-3,	to 1000	12.40.29	12.40.29	Median sternotomy - redo x 1-3,
Median sternotomy - redo x 4 or more,	to 1000	12.40.30	12.40.30	Median sternotomy - redo x 4 or more,

1783 Thoracotomy & submammary approaches

Thoracotomy,	to 1789	12.40.00	12.40.00	Thoracotomy,
Right thoracotomy,	to 1789	12.40.02	12.40.00	Thoracotomy,
Left thoracotomy,	to 1789	12.40.03	12.40.00	Thoracotomy,
Thoracotomy - redo,	to 1789	12.40.16	12.40.16	Thoracotomy - redo,
Thoracotomy - mini anterolateral approach,	to 1000	12.40.17	12.40.00	Thoracotomy,
Thoracotomy - mini posterolateral approach,	to 1000	12.40.18	12.40.00	Thoracotomy,
Transverse bilateral thoracotomy,	to 1000	12.40.12	12.40.00	Thoracotomy,
Transverse bilateral thoracotomy: clamshell,	to 1000	12.41.18	12.40.00	Thoracotomy,
Submammary approach,	to 1000	12.41.12	12.40.00	Thoracotomy,
Submammary approach: right,	to 1000	12.41.13	12.40.00	Thoracotomy,
Submammary approach: left,	to 1000	12.41.14	12.40.00	Thoracotomy,
Bilateral submammary approach,	to 1000	12.40.04	12.40.00	Thoracotomy,

1786 Cardiac incisions, approaches and closures

Atriotomy,	to 1793	12.40.71	12.40.99	Cardiac incision,
Right atriotomy,	to 1793	12.40.72	12.40.99	Cardiac incision,
Left atriotomy,	to 1793	12.40.75	12.40.99	Cardiac incision,
Bilateral incision,	to 1793	12.40.76	12.40.99	Cardiac incision,
Ventriculotomy,	to 1793	12.40.64	12.40.99	Cardiac incision,
Right ventriculotomy,	to 1793	12.40.77	12.40.99	Cardiac incision,
Left ventriculotomy,	to 1793	12.40.79	12.40.99	Cardiac incision,
Pulmonary arteriotomy,	to 1793	12.40.81	12.40.99	Cardiac incision,
Aortotomy,	to 1793	12.40.91	12.40.99	Cardiac incision,
Endocardial approach,	to 1000	12.40.61	12.40.99	Cardiac incision,
Epicardial approach,	to 1000	12.40.62	12.40.99	Cardiac incision,
Transmural (epicardial to endocardial) approach,	to 1000	12.40.63	12.40.99	Cardiac incision,
Cardiac approach and incision unknown or unspecified,	to 1000	12.40.82	12.40.99	Cardiac incision,
Cardiac incision,	to 1009	12.40.99	12.40.99	Cardiac incision,

1787 @ Approach to repair intracardiac lesion - qualifiers

-transatrial approach,	to 1000	Q5.08.11	Q5.08.11	Transatrial approach,
-transventricular approach,	to 1000	Q5.08.12	No equivalent	
-trans-right ventricular approach,	to 1000	Q5.08.13	Q5.08.13	Trans-right ventricular approach,
-trans-left ventricular approach,	to 1000	Q5.08.14	not relevant	
-transpulmonary approach,	to 1000	Q5.08.15	not relevant	
-transaortic approach,	to 1000	Q5.08.16	not relevant	
-extracardiac approach,	to 1000	Q5.08.17	not relevant	
-extracardiac approach: from left,	to 1000	Q5.08.18	not relevant	
-extracardiac approach: from right,	to 1000	Q5.08.19	not relevant	
-extracardiac approach: from space between aorta & superior caval vein at dome of left atrium,	to 1000	Q5.08.20	not relevant	
-approach to repair heart unknown,	to 1000	Q5.08.21	not relevant	
no entry	to 1000	not relevant		

1789 @ Intrathoracic approach by thoracotomy - qualifiers

no entry	to 1000	not relevant		
-lateral,	to 1000	Q5.41.30	not relevant	
-anterolateral,	to 1000	Q5.40.31	not relevant	
-posterolateral,	to 1000	Q5.40.32	not relevant	
-anterior,	to 1000	Q5.40.33	not relevant	
-localised,	to 1000	Q5.40.34	not relevant	
-posterior,	to 1000	Q5.41.37	not relevant	
-posterior subscapular,	to 1000	Q5.40.35	not relevant	
-'minithoracotomy',	to 1000	Q5.40.36	not relevant	
-thoraco-abdominal,	to 1000	Q5.40.37	not relevant	
-with abdominal incision (Ivor Lewis),	to 1000	Q5.40.38	not relevant	
-axillary,	to 1000	Q5.41.31	not relevant	
-muscle sparing,	to 1000	Q5.41.32	not relevant	
-muscle sparing: no muscle division,	to 1000	Q5.41.33	not relevant	
-muscle sparing: divide latissimus dorsi & spare serratus,	to 1000	Q5.41.34	not relevant	
-muscle sparing: spare latissimus dorsi & serratus,	to 1000	Q5.41.35	not relevant	
-muscle sparing: via axillary triangle,	to 1000	Q5.41.36	not relevant	
-intra-thoracic approach (DESCRIBE),	to 1000	Q5.40.39	not relevant	

1791 @ Transluminal approaches for cardiac procedures - qualifiers

no entry	to 1000	not relevant		
via femoral artery,	to 1000	Q5.40.41	not relevant	
via femoral vein,	to 1000	Q5.40.42	not relevant	
via brachial artery,	to 1000	Q5.40.43	not relevant	
via brachial vein,	to 1000	Q5.40.56	not relevant	
via axillary artery,	to 1000	Q5.40.44	not relevant	
via axillary vein,	to 1000	Q5.40.45	not relevant	
via internal jugular vein,	to 1000	Q5.40.46	not relevant	
via external jugular vein,	to 1000	Q5.40.47	not relevant	
via subclavian vein,	to 1000	Q5.40.48	not relevant	
via carotid artery,	to 1000	Q5.40.49	not relevant	
transhepatic,	to 1000	Q5.40.50	not relevant	
via umbilical vein,	to 1000	Q5.40.51	not relevant	
via umbilical artery,	to 1000	Q5.40.52	not relevant	
via right ventricle through thoracic perforation,	to 1000	Q5.40.53	not relevant	
via left ventricle through thoracic perforation,	to 1000	Q5.40.54	not relevant	
via pulmonary trunk through thoracic perforation,	to 1000	Q5.40.55	not relevant	
via arterial duct,	to 1000	Q5.40.57	not relevant	
via systemic-to-pulmonary arterial shunt,	to 2240	Q5.40.58	not relevant	
via cardiac conduit,	to 2240	Q5.40.60	not relevant	
transluminal approach (DESCRIBE),	to 1000	Q5.40.59	not relevant	

1793 @ Cardiac incision and method of closure - qualifiers

no entry	to 1000	not relevant		
-oblique,	to 1000	Q5.40.82	not relevant	
-transverse,	to 1000	Q5.40.83	not relevant	
-vertical,	to 1000	Q5.40.84	not relevant	
-transection,	to 1000	Q5.40.85	not relevant	
-horizontal,	to 1000	Q5.40.86	not relevant	
-displaced incision to avoid aberrant coronary artery,	to 1292	Q5.40.90	not relevant	
-direct perforation,	to 1000	Q5.40.91	not relevant	
-cardiac incision characteristic (DESCRIBE),	to 1000	Q5.40.89	not relevant	
-direct closure,	to 1000	Q5.40.87	not relevant	
-patch closure,	to 1608	Q5.40.88	not relevant	
-direction of incision unknown or unspecified,	to 1000	Q5.40.92	not relevant	

1795 @ Thoracoscopic approach (VATS) - qualifiers

-right-sided approach,	to 1000	Q5.41.81	not relevant	
-right-sided approach & converting to thoracotomy,	to 1000	Q5.41.82	not relevant	
-left-sided approach,	to 1000	Q5.41.83	not relevant	
-left-sided approach & converting to thoracotomy,	to 1000	Q5.41.84	not relevant	
-extrapleural,	to 1000	Q5.41.86	not relevant	
-intrapleural,	to 1000	Q5.41.87	not relevant	
-converting to thoracotomy,	to 1000	Q5.41.85	not relevant	
-lateral,	to 1000	Q5.41.30	not relevant	
-anterolateral,	to 1000	Q5.40.31	not relevant	
-posterolateral,	to 1000	Q5.40.32	not relevant	
-anterior,	to 1000	Q5.40.33	not relevant	
-posterior,	to 1000	Q5.41.37	not relevant	
-posterior subscapular,	to 1000	Q5.40.35	not relevant	
-axillary,	to 1000	Q5.41.31	not relevant	
-with mediastinal space inspection (no biopsy),	to 1000	Q5.41.88	not relevant	
-with pericardial space inspection (no biopsy),	to 1000	Q5.41.89	not relevant	
no entry	to 1000	not relevant		

1796 @ Chest closure techniques - qualifiers

Delayed sternal closure	to 1576	not relevant		
-direct chest closure,	to 1000	Q5.41.61	not relevant	
-chest closure with sternal wires,	to 1000	Q5.41.62	not relevant	
-chest closure without sternal wires,	to 1000	Q5.41.63	not relevant	
-chest closure with silicone sheet insert,	to 1000	Q5.41.64	not relevant	
-chest closure with Goretex sheet insert,	to 1000	Q5.41.65	not relevant	
no entry	to 1000	not relevant		

END OF SECTION

1800 Procedure related complications and sequelae

Generic and mortality related complications	to 1802	not relevant		
Complications during period of anaesthetic care	to 1805	not relevant		
Complications during patient transportation	to 1807	not relevant		
Complications related to cardiopulmonary bypass, ECMO, Ventricular Assist Devices & Balloon Pumps	to 1810	not relevant		
Infection related postprocedural complications	to 1840	not relevant		
Postprocedural shock	to 1845	not relevant		
Postprocedural vascular complications: limb ischaemia & thromboembolism	to 1870	not relevant		
Localised & miscellaneous procedure related complications	to 1875	not relevant		
Peri- & postprocedural cardiovascular disorders-complications	to 1880	not relevant		
Peri- & postprocedural bleeding & haematological complications	to 1900	not relevant		
Postprocedural general and noncardiac complications	to 1925	not relevant		
Postprocedural intubation and wound related complications	to 1850	not relevant		
Postprocedural pericardial complications	to 2010	not relevant		
Postprocedural great vein complications & sequelae	to 2020	not relevant		
Postprocedural atrial complications & sequelae	to 2030	not relevant		

Postprocedural atrioventricular valvar & atrioventricular septal defect complications & sequelae	to 2040	not relevant
Postprocedural ventricular, subacute and subpulmonary complications & sequelae	to 2070	not relevant
Postprocedural ventriculo-arterial valvar, great major artery complications & sequelae	to 2100	not relevant
Postprocedural coronary arterial + coronary artery bypass graft (CABG) complications & sequelae	to 2170	not relevant
Cardiac conduit & systemic-to-pulmonary arterial shunt complications & sequelae	to 2200	not relevant
Postprocedural Fontan and cavopulmonary connection complications	to 2260	not relevant
Complications following heart and/or lung transplantation,	to 2300	not relevant
Postprocedural conduction disturbance or atrioventricular block	to 850	not relevant
Complications following arrhythmia related, pacemaker and implantable cardioverter & defibrillator (ICD) procedures	to 900	not relevant
Complications related to echocardiographic procedures	to 2400	not relevant
Postprocedural assist device complications	to 1810	not relevant
Complications related to cardiac catheterisation & transluminal interventions	to 2600	not relevant
Complications following thoracic noncardiac procedures	to 2700	not relevant
Vascular access and line complications	to 2790	not relevant
Procedural complication qualifiers	to 2800	not relevant

1802 Generic and mortality related complications

Complication,	to 1	15.90.00	999.9	T88.8	15.90.14	Procedure related complication,
Procedure related complication,	to 2812	15.90.14	998.9	T81.8	15.90.14	Procedure related complication,
Postprocedural complication,	to 1	15.90.01	998.9	T81.8	15.90.01	Postprocedural complication,
No postprocedural complications,	to 1	15.90.03			15.90.03	No postprocedural complications,
No postprocedural complications prior to discharge or within 30 days of procedure,	to 1	15.90.11			15.90.03	No postprocedural complications,
Postprocedural complication directly related to cardiac repair,	to 1	15.90.12	998.9	T81.8	15.90.01	Postprocedural complication,
Postprocedural residual abnormality,	to 1	15.90.02	998.9	T81.8	15.90.01	Postprocedural complication,
Failure of initial cardiac repair requiring takedown,	to 1	15.90.13	998.9	T81.8	15.90.01	Postprocedural complication,
Cardiac reoperation required,	to 1	15.90.15	998.9	T81.8	15.90.01	Postprocedural complication,
Cardiac reoperation required during same admission (unplanned),	to 1	15.90.16	998.9	T81.8	15.90.01	Postprocedural complication,
Cardiac reoperation required during postprocedure period (unplanned),	to 1	15.90.91	998.9	T81.8	15.90.01	Postprocedural complication,
Cardiac interventional cardiovascular catheter procedure required during postprocedure period (unplanned),	to 1	15.90.92	998.9	T81.8	15.90.01	Postprocedural complication,
Noncardiac reoperation required,	to 1	15.90.17	999.9	T88.8	15.90.01	Postprocedural complication,
Noncardiac reoperation required during same admission (unplanned),	to 1	15.90.18	999.9	T88.8	15.90.01	Postprocedural complication,
Reoperation required during same admission (unplanned),	to 1	15.90.19	998.9	T81.8	15.90.01	Postprocedural complication,
Reoperation required during postprocedural period (unplanned),	to 1	15.90.93	998.9	T81.8	15.90.01	Postprocedural complication,
Readmission to hospital required within 30 days of procedure (unplanned),	to 1	15.90.90	998.9	T81.8	15.90.01	Postprocedural complication,
Unplanned reinstitution of cardiopulmonary bypass,	to 1	15.90.46	998.9	T81.8	15.90.01	Postprocedural complication,
Procedure related adverse event,	to 1	15.90.04	998.9	T81.8	15.90.14	Procedure related complication,
Procedure related iatrogenic event,	to 1	15.90.05	998.9	T81.8	15.90.14	Procedure related complication,
Procedure related sentinel (serious) adverse event,	to 1	15.90.06	998.9	T81.8	15.90.14	Procedure related complication,
Procedure related near miss event,	to 1	15.90.10	998.9	T81.8	15.90.14	Procedure related complication,
Technical error during procedure,	to 1	15.90.47	998.9	T81.8	15.90.14	Procedure related complication,
Technical error during procedure: cardiac laceration,	to 3220	15.90.48	998.2	T81.2	15.90.14	Procedure related complication,
Technical error during procedure: vessel laceration,	to 3220	15.90.49	998.2	T81.2	15.90.14	Procedure related complication,
Intraoperative death,	to 1	12.33.31			12.33.31	Intraoperative death,
Intraoperative or intra-procedural death,	to 1	15.90.99			12.33.31	Intraoperative death,
Death in hospital (not intraoperative),	to 1	12.33.32			12.33.33	Death within 30 days of procedure,
Death within 30 days of procedure,	to 1	12.33.33			12.33.33	Death within 30 days of procedure,
Death unrelated to cardiac procedure,	to 1	12.33.34			12.33.34	Death unrelated to cardiac procedure,
Death attributable to complication(s) following premature birth,	to 1	15.90.85			15.90.85	Death attributable to complication(s) following premature birth,
Death attributable to complication(s) following congenital cardiac procedure,	to 1	15.90.86			15.90.86	Death attributable to complication(s) following congenital cardiac procedure,
Death attributable to complication(s) following congenital cardiac transcatheter procedure,	to 1	15.90.87			15.90.86	Death attributable to complication(s) following congenital cardiac procedure,
Death attributable to complication(s) following congenital cardiac surgical procedure,	to 1	15.90.88			15.90.86	Death attributable to complication(s) following congenital cardiac procedure,
Operative mortality (within 30 days of operation or same hospital admission),	to 1	15.90.97			12.33.33	Death within 30 days of procedure,
Procedural mortality (within 30 days of procedure or same hospital admission),	to 1	15.90.98			12.33.33	Death within 30 days of procedure,
Procedure related morbidity event,	to 1	15.90.07	998.9	T81.8	15.90.14	Procedure related complication,
Procedure related morbidity event: postprocedural,	to 1	15.90.08	998.9	T81.8	15.90.01	Postprocedural complication,
Procedure related morbidity event: postoperative,	to 1	15.90.09	998.9	T81.8	15.90.01	Postprocedural complication,

End of branch

1805 Complications during period of anaesthetic care

Complication during period of anaesthetic care,	to 1	15.90.20	995.2	T88.5	15.90.20	Complication during period of anaesthetic care,	
Endotracheal intubation related complications	to 1966	not relevant					
Procedure related aspiration of gastric contents or foreign body,	to 2812	15.90.32	997.3		15.90.14	Procedure related complication,	
Cardiac arrest during period of anaesthetic care,	to 806	15.90.21	997.1	T81.8	15.00.01	Cardiac arrest during procedure,	
Cardiac arrest on induction of anaesthesia,	to 806	15.90.22	997.1	T81.8	15.00.01	Cardiac arrest during procedure,	
Complication during transportation whilst under anaesthetic care,	to 1	15.90.30	995.2	T88.5	15.90.20	Complication during period of anaesthetic care,	
Procedure related corneal abrasion,	to 2812	15.02.80	918.1	E876.8	Y83.8	15.90.14	Procedure related complication,
Regional anaesthesia complication,	to 1	15.90.23	995.2	T88.5	15.90.20	Complication during period of anaesthetic care,	
Regional anaesthesia complication: haematological,	to 1900	15.90.24	997.9	T88.5	15.90.20	Complication during period of anaesthetic care,	
Regional anaesthesia complication: infectious,	to 627	15.90.25	999.3	T88.5	15.90.20	Complication during period of anaesthetic care,	
Regional anaesthesia complication: neurological,	to 1990	15.90.26	997.0	T88.5	15.90.20	Complication during period of anaesthetic care,	
Regional anaesthesia complication: caudal,	to 1	15.90.27	995.2	T88.5	15.90.20	Complication during period of anaesthetic care,	
Regional anaesthesia complication: lumbar,	to 1	15.90.28	995.2	T88.5	15.90.20	Complication during period of anaesthetic care,	
Regional anaesthesia complication: thoracic,	to 1	15.90.29	995.2	T88.5	15.90.20	Complication during period of anaesthetic care,	
Inappropriate recollection of intra-procedural events,	to 1	15.90.31	E876.9	T88.5	15.90.20	Complication during period of anaesthetic care,	

1807 Complications related to patient transportation

Complication related to patient transportation,	to 1	15.90.40	E876.9	Y65.8	15.90.14	Procedure related complication,	
Cardiac arrest during patient transportation,	to 806	15.90.41	427.5	M6.9	11.00.21	Cardiac arrest,	
Hypoxia during patient transportation (over 20% from expected),	to 1	15.90.42	E876.9	Y65.8	15.90.14	Procedure related complication,	
Major haemorrhage during patient transportation,	to 3200	15.90.43	E876.9	Y65.8	15.02.00	Postprocedural haemorrhage,	
Tamponade during patient transportation,	to 1	15.90.44	423.9	E876.9	Y65.8	10.08.13	Cardiac tamponade,
Vascular line complications	to 2790	not relevant					

End of branch

1810 Complications related to cardiopulmonary bypass, ECMO, Ventricular Assist Devices & Balloon Pumps

Complications related to cardiopulmonary bypass	to 1811	not relevant				
Extracorporeal circuit complication,	to 1	15.57.01	996.1	T82.9	15.57.02	Extracorporeal Membrane Oxygenation (ECMO) circuit complication,
Extracorporeal Membrane Oxygenation (ECMO) circuit complications	to 1812	not relevant				
Ventricular assist device complications	to 1814	not relevant				
Intra-aortic balloon pump complications	to 1816	not relevant				
Postprocedural femoral arterial complication,	to 2910	15.24.20	997.2	87.8	15.24.20	Postprocedural femoral arterial complication,
Postprocedural great major arterial complications & sequelae	to 2100	not relevant				
Postprocedural descending aorta complications & sequelae	to 2130	not relevant				
Postprocedural major arterial bleeding complications	to 1908	not relevant				

1811 Complications related to cardiopulmonary bypass

Cardiopulmonary bypass complication,	to 1	15.77.00	996.1	T82.8	15.77.00	Cardiopulmonary bypass complication,		
Cardiopulmonary bypass complication: air in circuit,	to 1820	15.77.01	996.1	997.2	T82.5	T81.7	15.77.00	Cardiopulmonary bypass complication,
Cardiopulmonary bypass cannula related complication,	to 1821	15.77.02	996.1	T82.5	15.77.00	Cardiopulmonary bypass complication,		
Cardiopulmonary bypass complication: calibration error of arterial pump head,	to 1	15.77.03	996.1	T82.5	15.77.00	Cardiopulmonary bypass complication,		
Modified ultrafiltration (MUF) circuit complication,	to 1	15.77.04	996.1	T82.5	15.77.00	Cardiopulmonary bypass complication,		
Modified ultrafiltration (MUF) procedure complication,	to 1	15.77.05	996.1	T82.5	15.77.00	Cardiopulmonary bypass complication,		
Cardiopulmonary bypass myocardial protection complication,	to 1822	15.77.06	996.1	T82.8	15.77.00	Cardiopulmonary bypass complication,		
Cardiopulmonary bypass complication: power failure,	to 1823	15.77.09	996.1	T82.5	15.77.00	Cardiopulmonary bypass complication,		
Cardiopulmonary bypass thromboembolic complication,	to 1824	15.77.10	996.1	T82.8	15.77.00	Cardiopulmonary bypass complication,		
Cardiopulmonary bypass thrombotic complication,	to 1825	15.77.11	996.1	T82.9	15.77.00	Cardiopulmonary bypass complication,		
Cardiopulmonary bypass heater-cooler complication,	to 1827	15.77.12	996.1	T82.5	15.77.00	Cardiopulmonary bypass complication,		
Cardiopulmonary bypass oxygenator related complication,	to 1828	15.77.13	996.1	T82.5	15.77.00	Cardiopulmonary bypass complication,		
Cardiopulmonary bypass pump related complication,	to 1829	15.77.07	996.1	T82.5	15.77.00	Cardiopulmonary bypass complication,		
Cardiopulmonary bypass complication: wrong prime,	to 1	15.77.08	996.1	T82.5	15.77.00	Cardiopulmonary bypass complication,		
Cardiopulmonary bypass device related complication,	to 1	15.77.14	996.1	T82.5	15.77.00	Cardiopulmonary bypass complication,		
Cardiopulmonary bypass heart-lung machine complication,	to 1	15.77.15	996.1	T82.5	15.77.00	Cardiopulmonary bypass complication,		
Cardiopulmonary bypass tubing or line or connector related complication,	to 1831	15.77.16	996.1	T82.5	15.77.00	Cardiopulmonary bypass complication,		
Cardiopulmonary bypass complication: excessive haemodilution,	to 1	15.77.17	996.1	T82.8	15.77.00	Cardiopulmonary bypass complication,		
Cardiopulmonary bypass complication: excessive haemolysis,	to 1	15.77.18	996.1	T82.8	15.77.00	Cardiopulmonary bypass complication,		
Cardiopulmonary bypass complication: excessive rewarming,	to 1	15.77.19	996.1	T82.8	15.77.00	Cardiopulmonary bypass complication,		
Cardiopulmonary bypass complication: excessive volume administration,	to 1	15.77.21	996.1	T82.8	15.77.00	Cardiopulmonary bypass complication,		
Pulmonary oedema: after cardiopulmonary bypass,	to 600	10.30.40	514	81.1	10.30.30	Pulmonary oedema,		
Cardiopulmonary bypass haematological complication,	to 1832	15.77.22	996.1	T82.5	15.77.00	Cardiopulmonary bypass complication,		
Cardiopulmonary bypass complication: hypoxemia due to loss of ventilatory gas flow,	to 1	15.77.23	996.1	T82.8	15.77.00	Cardiopulmonary bypass complication,		
Cardiopulmonary bypass complication: medication error via bypass circuit,	to 1	15.77.24	996.1	T82.8	15.77.00	Cardiopulmonary bypass complication,		
Cardiopulmonary bypass complication: uncontrolled aortopulmonary collateral(s) or aortopulmonary shunt(s),	to 1	15.77.25	996.1	T82.8	15.77.00	Cardiopulmonary bypass complication,		
Cardiopulmonary bypass complication: uncontrolled bypass circuit shunts,	to 1	15.77.26	996.1	T82.5	15.77.00	Cardiopulmonary bypass complication,		
Cardiopulmonary bypass complication: under occluded arterial pump head,	to 1	15.77.27	996.1	T82.5	15.77.00	Cardiopulmonary bypass complication,		
Cardiopulmonary bypass complication: unwanted exsanguination,	to 1	15.77.28	996.1	T82.8	15.77.00	Cardiopulmonary bypass complication,		

1812 Extracorporeal Membrane Oxygenation (ECMO) circuit complications

Extracorporeal Membrane Oxygenation (ECMO) circuit complication,	to 1	15.57.02	996.1	T82.8	15.57.02	Extracorporeal Membrane Oxygenation (ECMO) circuit complication,		
Extracorporeal Membrane Oxygenation (ECMO) circuit components & device related complications	to 1813	not relevant						
Extracorporeal Membrane Oxygenation (ECMO) complication: air in circuit,	to 1820	15.57.23	996.1	997.2	T82.5	T81.7	15.57.02	Extracorporeal Membrane Oxygenation (ECMO) circuit complication,
Extracorporeal Membrane Oxygenation (ECMO) complication: power failure,	to 1823	15.57.06	996.1	T82.5	15.57.02	Extracorporeal Membrane Oxygenation (ECMO) circuit complication,		
Extracorporeal Membrane Oxygenation (ECMO) thromboembolic complication,	to 1824	15.57.07	996.1	T82.8	15.57.02	Extracorporeal Membrane Oxygenation (ECMO) circuit complication,		
Extracorporeal Membrane Oxygenation (ECMO) thrombotic complication,	to 1825	15.57.08	996.1	T82.8	15.57.02	Extracorporeal Membrane Oxygenation (ECMO) circuit complication,		
Extracorporeal Membrane Oxygenation (ECMO) conversion of venovenous to venoarterial circuit,	to 1830	15.57.13	996.1	T82.5	15.57.02	Extracorporeal Membrane Oxygenation (ECMO) circuit complication,		

Extracorporeal Membrane Oxygenation (ECMO) complication: wrong prime,	to 1	15.57.16	996.1	T82.5	15.57.02	Extracorporeal Membrane Oxygenation (ECMO) circuit complication,
Extracorporeal Membrane Oxygenation (ECMO) complication: excessive haemodilution,	to 1	15.57.17	996.1	T82.8	15.57.02	Extracorporeal Membrane Oxygenation (ECMO) circuit complication,
Extracorporeal Membrane Oxygenation (ECMO) complication: excessive haemolysis,	to 1	15.57.18	996.1	T82.8	15.57.02	Extracorporeal Membrane Oxygenation (ECMO) circuit complication,
Extracorporeal Membrane Oxygenation (ECMO) complication: excessive rewarmer,	to 1	15.57.19	996.1	T82.5	15.57.02	Extracorporeal Membrane Oxygenation (ECMO) circuit complication,
Extracorporeal Membrane Oxygenation (ECMO) complication: excessive volume administration,	to 1	15.57.20	996.1	T82.8	15.57.02	Extracorporeal Membrane Oxygenation (ECMO) circuit complication,
Extracorporeal Membrane Oxygenation (ECMO) haematological complication,	to 1832	15.57.35	996.1	T82.8	15.57.02	Extracorporeal Membrane Oxygenation (ECMO) circuit complication,
Extracorporeal Membrane Oxygenation (ECMO) complication: bleeding,	to 1833	15.57.36	996.1	T82.8	15.57.02	Extracorporeal Membrane Oxygenation (ECMO) circuit complication,
Extracorporeal Membrane Oxygenation (ECMO) complication: hypoxemia due to loss of ventilatory gas flow,	to 1	15.57.37	996.1	T82.5	15.57.02	Extracorporeal Membrane Oxygenation (ECMO) circuit complication,
Extracorporeal Membrane Oxygenation (ECMO) complication: inadequate left atrial or left ventricular drainage,	to 1	15.57.38	996.1	T82.5	15.57.02	Extracorporeal Membrane Oxygenation (ECMO) circuit complication,
Extracorporeal Membrane Oxygenation (ECMO) complication: inadequate left atrial or left ventricular drainage requiring intervention to decompress,	to 1	15.57.39	996.1	T82.5	15.57.02	Extracorporeal Membrane Oxygenation (ECMO) circuit complication,
Extracorporeal Membrane Oxygenation (ECMO) complication: inadequate venous drainage,	to 1	15.57.40	996.1	T82.5	15.57.02	Extracorporeal Membrane Oxygenation (ECMO) circuit complication,
Extracorporeal Membrane Oxygenation (ECMO) complication: medication error via bypass circuit,	to 1	15.57.41	996.1	T82.8	15.57.02	Extracorporeal Membrane Oxygenation (ECMO) circuit complication,
Extracorporeal Membrane Oxygenation (ECMO) complication: need for emergency circuit change (except for thrombus),	to 1	15.57.42	996.1	T82.5	15.57.02	Extracorporeal Membrane Oxygenation (ECMO) circuit complication,
Extracorporeal Membrane Oxygenation (ECMO) complication: persistent metabolic acidosis,	to 1	15.57.43	996.1	T82.8	15.57.02	Extracorporeal Membrane Oxygenation (ECMO) circuit complication,
Extracorporeal Membrane Oxygenation (ECMO) complication: persistent metabolic acidosis refractory to treatment,	to 1	15.57.44	996.1	T82.8	15.57.02	Extracorporeal Membrane Oxygenation (ECMO) circuit complication,
Extracorporeal Membrane Oxygenation (ECMO) complication: uncontrolled aortopulmonary collateral(s) or aortopulmonary shunt(s),	to 1	15.57.31	996.1	T82.8	15.57.02	Extracorporeal Membrane Oxygenation (ECMO) circuit complication,
Extracorporeal Membrane Oxygenation (ECMO) complication: uncontrolled bypass circuit shunts,	to 1	15.57.32	996.1	T82.5	15.57.02	Extracorporeal Membrane Oxygenation (ECMO) circuit complication,
Extracorporeal Membrane Oxygenation (ECMO) complication: unwanted exsanguination,	to 1	15.57.34	996.1	T82.5	15.57.02	Extracorporeal Membrane Oxygenation (ECMO) circuit complication,

1813 ECMO circuit components & device related complications

Extracorporeal Membrane Oxygenation (ECMO) device related complication,	to 1	15.57.05	996.1	T82.5	15.57.02	Extracorporeal Membrane Oxygenation (ECMO) circuit complication,
Extracorporeal Membrane Oxygenation (ECMO) cannula related complication,	to 1821	15.77.56	996.1	T82.5	15.57.02	Extracorporeal Membrane Oxygenation (ECMO) circuit complication,
Extracorporeal Membrane Oxygenation (ECMO) heater-cooler complication,	to 1827	15.57.09	996.1	T82.5	15.57.02	Extracorporeal Membrane Oxygenation (ECMO) circuit complication,
Extracorporeal Membrane Oxygenation (ECMO) oxygenator related complication,	to 1828	15.57.10	996.1	T82.5	15.57.02	Extracorporeal Membrane Oxygenation (ECMO) circuit complication,
Extracorporeal Membrane Oxygenation (ECMO) pump + pump head related complication,	to 1829	15.57.04	996.1	T82.5	15.57.02	Extracorporeal Membrane Oxygenation (ECMO) circuit complication,
Extracorporeal Membrane Oxygenation (ECMO) machine circuit pigtail crack,	to 1	15.57.11	996.1	T82.5	15.57.02	Extracorporeal Membrane Oxygenation (ECMO) circuit complication,
Extracorporeal Membrane Oxygenation (ECMO) machine component malfunction,	to 1	15.57.12	996.1	T82.5	15.57.02	Extracorporeal Membrane Oxygenation (ECMO) circuit complication,
Extracorporeal Membrane Oxygenation (ECMO) stopcock crack or disconnect,	to 1	15.57.14	996.1	T82.5	15.57.02	Extracorporeal Membrane Oxygenation (ECMO) circuit complication,
Extracorporeal Membrane Oxygenation (ECMO) tubing or line or connector related complication,	to 1831	15.57.15	996.1	T82.5	15.57.02	Extracorporeal Membrane Oxygenation (ECMO) circuit complication,

1814 Ventricular Assist Device (VAD) related complications

Ventricular assist device complication,	to 1	15.57.03	996.1	T82.9	15.57.03	Ventricular assist device (VAD) complication,
Ventricular assist device complication as listed in Interagency Registry for Mechanically Assisted Circulatory Support (INTERMACS),	to 1	15.57.95	996.1	T82.9	15.57.03	Ventricular assist device (VAD) complication,
Ventricular assist device (VAD) components and device related complications	to 1815	not relevant				
Ventricular assist device (VAD) complication: air in circuit,	to 1820	15.57.51	996.1	997.2 T82.5 T81.7	15.57.03	Ventricular assist device (VAD) complication,
Ventricular assist device (VAD) complication: power failure,	to 1823	15.57.55	996.1	T82.5	15.57.03	Ventricular assist device (VAD) complication,
Ventricular assist device (VAD) thromboembolic complication,	to 1824	15.57.56	996.1	T82.8	15.57.03	Ventricular assist device (VAD) complication,
Ventricular assist device (VAD) thrombotic complication,	to 1825	15.57.57	996.1	T82.8	15.57.03	Ventricular assist device (VAD) complication,
Ventricular assist device (VAD) complication: wrong prime,	to 1	15.57.65	996.1	T82.8	15.57.03	Ventricular assist device (VAD) complication,
Ventricular assist device (VAD) complication: excessive haemodilution,	to 1	15.57.66	996.1	T82.8	15.57.03	Ventricular assist device (VAD) complication,
Ventricular assist device (VAD) complication: excessive haemolysis,	to 1	15.57.67	996.1	T82.8	15.57.03	Ventricular assist device (VAD) complication,
Ventricular assist device (VAD) complication: excessive rewarmer,	to 1	15.57.68	996.1	T82.5	15.57.03	Ventricular assist device (VAD) complication,
Ventricular assist device (VAD) complication: excessive volume administration,	to 1	15.57.69	996.1	T82.8	15.57.03	Ventricular assist device (VAD) complication,
Ventricular assist device (VAD) haematological complication,	to 1832	15.57.70	996.1	T82.8	15.57.03	Ventricular assist device (VAD) complication,
Ventricular assist device (VAD) complication: bleeding,	to 1833	15.57.71	996.1	T82.8	15.57.03	Ventricular assist device (VAD) complication,
Ventricular assist device (VAD) complication: inadequate left atrial or left ventricular drainage,	to 1	15.57.53	996.1	T82.5	15.57.03	Ventricular assist device (VAD) complication,
Ventricular assist device (VAD) complication: inadequate left atrial or left ventricular drainage requiring intervention to decompress,	to 1	15.57.54	996.1	T82.5	15.57.03	Ventricular assist device (VAD) complication,
Ventricular assist device (VAD) complication: inadequate drainage to VAD (inadequate VAD inflow),	to 1	15.57.72	996.1	T82.5	15.57.03	Ventricular assist device (VAD) complication,
Ventricular assist device (VAD) complication: medication error via VAD circuit,	to 1	15.57.83	996.1	T82.5	15.57.03	Ventricular assist device (VAD) complication,
Ventricular assist device (VAD) complication: need for emergency circuit change (except for thrombus),	to 1	15.57.84	996.1	T82.5	15.57.03	Ventricular assist device (VAD) complication,
Ventricular assist device (VAD) complication as an outpatient requiring hospitalisation,	to 1	15.57.85	996.1	T82.8	15.57.03	Ventricular assist device (VAD) complication,
Ventricular assist device (VAD) complication: persistent metabolic acidosis,	to 1	15.57.86	996.1	T82.8	15.57.03	Ventricular assist device (VAD) complication,
Ventricular assist device (VAD) complication: persistent metabolic acidosis refractory to treatment,	to 1	15.57.87	996.1	T82.8	15.57.03	Ventricular assist device (VAD) complication,
Ventricular assist device (VAD) complication: deviation from therapy protocol (including non-compliance),	to 1	15.57.88	996.1	T82.8	15.57.03	Ventricular assist device (VAD) complication,
Ventricular assist device (VAD) complication: major infection involving pump inflow or outflow tract,	to 1	15.57.89	996.1	T82.8	15.57.03	Ventricular assist device (VAD) complication,
Ventricular assist device (VAD) complication: uncontrolled aortopulmonary collateral(s) or aortopulmonary shunt(s),	to 1	15.57.90	996.1	T82.5	15.57.03	Ventricular assist device (VAD) complication,
Ventricular assist device (VAD) complication: unwanted exsanguination,	to 1	15.57.91	996.1	T82.8	15.57.03	Ventricular assist device (VAD) complication,
Ventricular assist device (VAD) complication: major local non-device infection,	to 627	15.57.98	996.1	T82.8	15.57.03	Ventricular assist device (VAD) complication,
Ventricular assist device (VAD) complication: major infection involving percutaneous site and/or pocket,	to 627	15.57.99	996.1	T82.8	15.57.03	Ventricular assist device (VAD) complication,

1815 Ventricular assist device (VAD) components and device related complications

Ventricular assist device (VAD) device related complication,	to 1	15.57.60	996.1	T82.8	15.57.03	Ventricular assist device (VAD) complication,
Ventricular assist device (VAD) cannula related complication,	to 1821	15.57.52	996.1	T82.5	15.57.03	Ventricular assist device (VAD) complication,
Ventricular assist device (VAD) heater-cooler complication,	to 1827	15.57.58	996.1	T82.5	15.57.03	Ventricular assist device (VAD) complication,
Ventricular assist device (VAD) pump or pump head related complication,	to 1829	15.57.59	996.1	T82.5	15.57.03	Ventricular assist device (VAD) complication,
Ventricular assist device (VAD) device related complication: non-pump failure,	to 1	15.57.96	996.1	T82.8	15.57.03	Ventricular assist device (VAD) complication,
Ventricular assist device (VAD) tubing or line or connector related complication,	to 1831	15.57.64	996.1	T82.5	15.57.03	Ventricular assist device (VAD) complication,
Ventricular assist device (VAD) machine circuit pigtail crack,	to 1	15.57.61	996.1	T82.5	15.57.03	Ventricular assist device (VAD) complication,
Ventricular assist device (VAD) machine component malfunction,	to 1	15.57.62	996.1	T82.5	15.57.03	Ventricular assist device (VAD) complication,
Ventricular assist device (VAD) stopcock crack or disconnect,	to 1	15.57.63	996.1	T82.5	15.57.03	Ventricular assist device (VAD) complication,
Ventricular assist device (VAD) complication: driveline infection requiring antibiotic therapy,	to 1	15.77.58	996.1	T82.5	15.57.03	Ventricular assist device (VAD) complication,
Ventricular assist device (VAD) complication: driveline infection requiring replacement,	to 1	15.57.73	996.1	T82.5	15.57.03	Ventricular assist device (VAD) complication,
Ventricular assist device (VAD) complication: driveline malfunction requiring replacement,	to 1	15.57.74	996.1	T82.5	15.57.03	Ventricular assist device (VAD) complication,
Ventricular assist device (VAD) complication: external battery malfunction requiring replacement,	to 1	15.57.75	996.1	T82.5	15.57.03	Ventricular assist device (VAD) complication,
Ventricular assist device (VAD) complication: external control system failure with replacement,	to 1	15.57.76	996.1	T82.5	15.57.03	Ventricular assist device (VAD) complication,
Ventricular assist device (VAD) complication: inflow valve malfunction requiring replacement,	to 1	15.57.77	996.1	T82.5	15.57.03	Ventricular assist device (VAD) complication,
Ventricular assist device (VAD) complication: outflow valve malfunction requiring replacement,	to 1	15.57.92	996.1	T82.5	15.57.03	Ventricular assist device (VAD) complication,
Ventricular assist device (VAD) complication: major infection involving pump inflow or outflow tract,	to 627	15.57.97	996.1	T82.5	15.57.03	Ventricular assist device (VAD) complication,
Ventricular assist device (VAD) complication: internal battery malfunction requiring replacement,	to 1	15.57.78	996.1	T82.5	15.57.03	Ventricular assist device (VAD) complication,
Ventricular assist device (VAD) complication: internal controller malfunction requiring replacement,	to 1	15.57.79	996.1	T82.5	15.57.03	Ventricular assist device (VAD) complication,
Malfunction of mechanical component of centrifugal ventricular assist device (VAD) requiring replacement,	to 1	15.57.80	996.1	T82.5	15.57.03	Ventricular assist device (VAD) complication,
Malfunction of mechanical component of pulsatile ventricular assist device (VAD) requiring replacement,	to 1	15.57.81	996.1	T82.5	15.57.03	Ventricular assist device (VAD) complication,
Malfunction of mechanical component of axial flow ventricular assist device (VAD) requiring replacement,	to 1	15.57.82	996.1	T82.5	15.57.03	Ventricular assist device (VAD) complication,
Ventricular assist device (VAD) complication: remote drive unit failure requiring replacement,	to 1	15.57.93	996.1	T82.5	15.57.03	Ventricular assist device (VAD) complication,
Ventricular assist device (VAD) complication: transcatheter energy transfer (TET) system malfunction,	to 1	15.57.94	996.1	T82.5	15.57.03	Ventricular assist device (VAD) complication,

1816 Complications of intra-aortic balloon pump

Intra-aortic balloon pump (IABP) complication,	to 1	15.57.21	996.1	T82.5	15.57.21	Intra-aortic balloon pump (IABP) complication,
Intra-aortic balloon pump (IABP) complication: aortic dissection during use of IABP,	to 1	15.77.54	996.1	T82.9	15.57.21	Intra-aortic balloon pump (IABP) complication,
Intra-aortic balloon pump (IABP) complication: catheter causing perforation of aorta,	to 1	15.77.55	996.1	T82.9	15.57.21	Intra-aortic balloon pump (IABP) complication,
Intra-aortic balloon pump complication: balloon rupture,	to 1	15.57.22	996.1	T82.5	15.57.21	Intra-aortic balloon pump (IABP) complication,
Intra-aortic balloon pump thromboembolic complication,	to 1824	15.57.28	996.1	T82.5	15.57.21	Intra-aortic balloon pump (IABP) complication,
Intra-aortic balloon pump complication: thrombus on balloon,	to 1	15.57.23	996.1	T82.8	15.57.21	Intra-aortic balloon pump (IABP) complication,
Intra-aortic balloon pump complication: inadequate augmentation,	to 1	15.57.24	996.1	T82.5	15.57.21	Intra-aortic balloon pump (IABP) complication,
Intra-aortic balloon pump complication: malposition,	to 1	15.57.25	996.1	T82.5	15.57.21	Intra-aortic balloon pump (IABP) complication,
Intra-aortic balloon pump complication: malposition of catheter causing brain ischaemia,	to 1	15.77.57	996.1	T82.5	15.57.21	Intra-aortic balloon pump (IABP) complication,
Intra-aortic balloon pump complication: malposition of catheter causing limb ischaemia,	to 1	15.57.30	996.1	T82.5	15.57.21	Intra-aortic balloon pump (IABP) complication,
Intra-aortic balloon pump complication: catheter causing limb ischaemia at insertion site,	to 1	15.77.52	996.1	T82.5	15.57.21	Intra-aortic balloon pump (IABP) complication,
Intra-aortic balloon pump complication: catheter causing compartment syndrome,	to 1	15.77.50	996.1	T82.5	15.57.21	Intra-aortic balloon pump (IABP) complication,
Intra-aortic balloon pump complication: malposition of catheter causing renal ischaemia,	to 1	15.77.51	996.1	T82.5	15.57.21	Intra-aortic balloon pump (IABP) complication,
Intra-aortic balloon pump complication: dislodgement of plaque,	to 1	15.57.26	996.1	T82.5	15.57.21	Intra-aortic balloon pump (IABP) complication,
Intra-aortic balloon pump complication: inability to insert balloon,	to 1	15.57.27	996.1	T82.5	15.57.21	Intra-aortic balloon pump (IABP) complication,
Intra-aortic balloon pump complication: helium tank depletion,	to 1	15.77.53	996.1	T82.5	15.57.21	Intra-aortic balloon pump (IABP) complication,
no entry	to 1	not relevant				

1820 @ Cardiopulmonary bypass, ECMO & VAD air in circuit related complications - qualifiers

- air embolism,	to 1	Q1.57.42	999.1	T81.7	not relevant	
- associated with major cerebral air embolus or requiring hyperbaric treatment,	to 1	Q1.67.01			not relevant	
- associated with transient electrocardiographic (ECG) changes,	to 1	Q1.67.02			not relevant	
- gaseous emboli in arterial line,	to 1	Q1.67.03			not relevant	
- gaseous emboli in arterial line: mechanically detected,	to 1	Q1.67.04			not relevant	
- gaseous emboli in arterial line: visually detected,	to 1	Q1.67.05			not relevant	
- gaseous emboli in arterial line: visually detected & not visibly infused into patient,	to 1	Q1.67.06			not relevant	
- gaseous emboli in arterial line: visually detected & visibly infused into patient,	to 1	Q1.67.07			not relevant	
- gaseous emboli in venous line,	to 1	Q1.57.46			not relevant	
- gaseous emboli in venous line: mechanically detected,	to 1	Q1.67.09			not relevant	
- gaseous emboli in venous line: visually detected,	to 1	Q1.67.10			not relevant	
- gaseous emboli in venous line causing venous air lock,	to 1	Q1.67.11			not relevant	
- gaseous emboli in inflow line: mechanically detected,	to 1	Q1.67.12			not relevant	
- gaseous emboli in inflow line: visually detected,	to 1	Q1.67.13			not relevant	
- gaseous emboli in inflow line of circuit causing air lock,	to 1	Q1.67.14			not relevant	
- gaseous emboli in outflow line: mechanically detected,	to 1	Q1.67.15			not relevant	
- gaseous emboli in outflow line: visually detected,	to 1	Q1.67.16			not relevant	
- gaseous emboli in outflow line: visually detected & not visibly infused into patient,	to 1	Q1.67.17			not relevant	
- gaseous emboli in outflow line: visually detected & visibly infused into patient,	to 1	Q1.67.18			not relevant	
no entry	to 1	not relevant				

1821 @ Cardiopulmonary bypass and ECMO cannula complications - qualifiers

- arterial dissection,	to 1	Q1.67.20			not relevant	
- aortic dissection,	to 1	Q1.67.21			not relevant	
- femoral arterial dissection,	to 1	Q1.67.22			not relevant	

- axillary arterial dissection	to 1	Q1.67.27	not relevant
- right carotid arterial dissection	to 1	Q1.67.28	not relevant
- arterial cannula dislodgement,	to 1	Q1.67.23	not relevant
- venous cannula dislodgement,	to 1	Q1.67.24	not relevant
- inflow cannula dislodgement,	to 1	Q1.67.29	not relevant
- outflow cannula dislodgement,	to 1	Q1.67.47	not relevant
- malposition of arterial cannula,	to 1	Q1.67.25	not relevant
- malposition of venous cannula,	to 1	Q1.67.26	not relevant
- malposition of inflow cannula,	to 1	Q1.67.48	not relevant
- malposition of outflow cannula,	to 1	Q1.67.49	not relevant
- device or cannula infection,	to 627	Q1.57.52	not relevant
no entry	to 1	not relevant	
1822 @ Myocardial protection related complications - qualifiers			
- cardioplegia delivery complication due to mechanical or technical problems at the level of the circuit,	to 1	Q1.67.70	not relevant
- cardioplegia delivery complication due to mechanical or technical problems at the level of the patient,	to 1	Q1.67.71	not relevant
- cardioplegia delivery complication due to pharmacological problem,	to 1	Q1.67.72	not relevant
no entry	to 1	not relevant	
1823 @ Cardiopulmonary bypass, ECMO & VAD power failure complications - qualifiers			
- managed with battery back-up,	to 1	Q1.67.75	not relevant
- managed with both handcrank & battery back-up,	to 1	Q1.67.76	not relevant
- managed with handcrank,	to 1	Q1.67.77	not relevant
no entry	to 1	not relevant	
1824 @ Cardiopulmonary bypass & ECMO thromboembolic complications - qualifiers			
- central thromboembolism,	to 1	Q1.67.30	not relevant
- intracranial thromboembolism,	to 1	Q1.67.31	not relevant
- non-central nervous system arterial thromboembolism,	to 1	Q1.68.56	not relevant
- mechanically detected thromboemboli with intervention,	to 1	Q1.67.32	not relevant
- mechanically detected thromboemboli without intervention,	to 1	Q1.67.33	not relevant
- mechanically detected thromboemboli with replacement of circuit,	to 1	Q1.67.37	not relevant
- mechanically detected thromboemboli with replacement of intra-aortic balloon pump,	to 1	Q1.67.38	not relevant
- visually detected thromboemboli with intervention,	to 1	Q1.67.34	not relevant
- visually detected thromboemboli without intervention,	to 1	Q1.67.35	not relevant
- visually detected thromboemboli with replacement of circuit,	to 1	Q1.67.39	not relevant
- visually detected thromboemboli with replacement of intra-aortic balloon pump,	to 1	Q1.67.46	not relevant
no entry	to 1	not relevant	
1825 @ Cardiopulmonary bypass & ECMO thrombotic complications - qualifiers			
- thrombosis in circuit,	to 1	Q1.57.49	not relevant
- thrombus in circuit during bypass run,	to 1	Q1.68.01	not relevant
- thrombus in circuit during or after protamine,	to 1	Q1.68.02	not relevant
- thrombus in ECMO circuit during ECMO run,	to 1	Q1.68.03	not relevant
- thrombus in ventricular assist device (VAD) circuit during VAD run,	to 1	Q1.68.22	not relevant
- circuit thrombus necessitating circuit change,	to 1	Q1.68.04	not relevant
- circuit thrombus necessitating emergency circuit change,	to 1	Q1.68.05	not relevant
- thrombus formation in circuit "bladder" not requiring component replacement,	to 1	Q1.68.06	not relevant
- thrombus formation in circuit "bladder" requiring component replacement,	to 1	Q1.68.07	not relevant
- thrombus formation in circuit "bridge" not requiring component replacement,	to 1	Q1.68.08	not relevant
- thrombus formation in circuit "bridge" requiring component replacement,	to 1	Q1.68.09	not relevant
- thrombus formation in circuit "centrifugal pump" not requiring component replacement,	to 1	Q1.68.10	not relevant
- thrombus formation in circuit "centrifugal pump" requiring component replacement,	to 1	Q1.68.11	not relevant
- thrombus formation in circuit "flow sensor" not requiring component replacement,	to 1	Q1.68.12	not relevant
- thrombus formation in circuit "flow sensor" requiring component replacement,	to 1	Q1.68.13	not relevant
- thrombus formation in circuit "heat exchanger" not requiring component replacement,	to 1	Q1.68.14	not relevant
- thrombus formation in circuit "heat exchanger" requiring component replacement,	to 1	Q1.68.15	not relevant
- thrombus formation in circuit "haemocoordinator" not requiring component replacement,	to 1	Q1.68.16	not relevant
- thrombus formation in circuit "haemocoordinator" requiring component replacement,	to 1	Q1.68.17	not relevant
- thrombus formation in circuit "oxygenator" not requiring component replacement,	to 1	Q1.68.18	not relevant
- thrombus formation in circuit "oxygenator" requiring component replacement,	to 1	Q1.68.19	not relevant
- thrombus formation in circuit "shunts" not requiring component replacement,	to 1	Q1.68.20	not relevant
- thrombus formation in circuit "shunts" requiring component replacement,	to 1	Q1.68.21	not relevant
no entry	to 1	not relevant	
1827 @ Cardiopulmonary bypass, ECMO & VAD heater-cooler complications - qualifiers			
- heat exchanger malfunction,	to 1	Q1.67.42	not relevant
- heat exchanger with blood to water leak,	to 1	Q1.67.40	not relevant
- heat exchanger with water to blood leak,	to 1	Q1.67.41	not relevant
no entry	to 1	not relevant	
1828 @ Cardiopulmonary bypass & ECMO oxygenator related complications - qualifiers			
- oxygen supply failure,	to 1	Q1.57.45	not relevant
- oxygenator device failure,	to 1	Q1.57.44	not relevant
- oxygenator device failure causing hypoxemia,	to 1	Q1.67.43	not relevant
- oxygenator with blood to gas phase leak,	to 1	Q1.67.44	not relevant
- inappropriate oxygenator choice,	to 1	Q1.67.45	not relevant
no entry	to 1	not relevant	
1829 @ Cardiopulmonary bypass, ECMO & VAD pump + pump head related complications - qualifiers			
- pump failure,	to 1	Q1.57.43	not relevant
- pump set-up complication,	to 1	Q1.67.80	not relevant
- pump set-up complication: forgetting to connect oxygen tank so oxygen not delivered,	to 1	Q1.67.81	not relevant
- centrifugal pump malfunction requiring replacement of pump,	to 1	Q1.67.82	not relevant
- centrifugal blood pump housing damage requiring replacement,	to 1	Q1.67.88	not relevant
- roller pump head calibration error,	to 1	Q1.67.83	not relevant
- roller pump head under-occlusion,	to 1	Q1.67.84	not relevant
- roller pump malfunction requiring replacement of pump,	to 1	Q1.67.85	not relevant
- pulsatile blood pump housing damage requiring replacement,	to 1	Q1.67.86	not relevant
- pulsatile blood pump membrane rupture requiring pump replacement,	to 1	Q1.67.87	not relevant
- calibration error of arterial pump head,	to 1	Q1.67.93	not relevant
- under-occluded arterial pump head,	to 1	Q1.67.94	not relevant
- calibration error of ventricular assist device (VAD) pump head,	to 1	Q1.67.89	not relevant
- under-occluded ventricular assist device (VAD) pump head,	to 1	Q1.67.90	not relevant
- axial flow blood pump housing damage requiring replacement,	to 1	Q1.67.91	not relevant
- circuit calibration error of arterial pump head,	to 1	Q1.67.92	not relevant
- device or cannula infection,	to 627	Q1.57.52	not relevant
no entry	to 1	not relevant	
1830 @ ECMO requirement for venovenous to venoarterial conversion - qualifiers			
- due to inadequate blood pressure,	to 1	Q1.67.95	not relevant
- due to inadequate ECMO flow,	to 1	Q1.67.96	not relevant
- due to inadequate oxygenation,	to 1	Q1.67.97	not relevant
no entry	to 1	not relevant	
1831 @ Cardiopulmonary bypass, ECMO & VAD tubing or line complications - qualifiers			
- raceway or tubing rupture,	to 1	Q1.67.50	not relevant
- line dislodgment or displacement,	to 1	Q1.67.51	not relevant
- inadvertent dislodgment or displacement of arterial line,	to 1	Q1.67.52	not relevant
- inadvertent dislodgment or displacement of venous line,	to 1	Q1.67.53	not relevant
- reversal of arterial and venous lines,	to 1	Q1.67.54	not relevant
- inadvertent dislodgment or displacement of inflow line,	to 1	Q1.67.58	not relevant
- inadvertent dislodgment or displacement of outflow line,	to 1	Q1.67.59	not relevant
- reversal of inflow and outflow lines,	to 1	Q1.67.60	not relevant
- raceway tubing fatigue,	to 1	Q1.67.55	not relevant
- tubing connector crack requiring replacement,	to 1	Q1.67.56	not relevant
- unplanned disconnection of tubing within circuit,	to 1	Q1.67.57	not relevant
- leakage from circuit component,	to 1	Q1.57.47	not relevant
- leakage from circuit joint,	to 1	Q1.57.48	not relevant
no entry	to 1	not relevant	
1832 @ Cardiopulmonary bypass, ECMO & VAD haematological complications - qualifiers			
- anticoagulant complication secondary to heparin therapy,	to 1	Q1.68.50	not relevant
- circuit replacement for haematologic concerns,	to 1	Q1.68.51	not relevant
- Factor VIIa (NovoSeven) complication with thrombus formation,	to 1	Q1.68.52	not relevant
- heparin resistance requiring treatment,	to 1	Q1.68.53	not relevant
- haematuria not present prior to intervention,	to 1	Q1.68.54	not relevant
- coagulopathy related bleeding,	to 1	Q1.68.55	not relevant
no entry	to 1	not relevant	

1833 @ ECMO & VAD bleeding complications - qualifiers

- cannulation site bleeding,	to 951	Q1.68.60				not relevant
- arterial cannulation site bleeding,	to 951	Q1.68.61				not relevant
- venous cannulation site bleeding,	to 951	Q1.68.62				not relevant
- ventricular assist device (VAD) inflow cannulation site bleeding,	to 951	Q1.68.65				not relevant
- ventricular assist device (VAD) outflow cannulation site bleeding,	to 951	Q1.68.66				not relevant
- coagulopathy related bleeding,	to 951	Q1.68.55				not relevant
- cerebral haemorrhage,	to 951	Q1.68.63				not relevant
- gastrointestinal haemorrhage,	to 951	Q1.68.64				not relevant
no entry	to 951	not relevant				

End of branch

1840 Infection related postprocedural complications

Postprocedural infection,	to 627	15.90.50	136.9		T81.4	15.90.01	Postprocedural complication,
Postprocedural infections related to cardiothoracic incisions	to 1850	not relevant					
Postprocedural infections involving multiple sites,	to 627	15.90.51	136.9		T81.4	15.90.01	Postprocedural complication,
Postprocedural complication involving 'infectious system',	to 627	15.90.52	136.9		T81.4	15.90.01	Postprocedural complication,
Postprocedural septicaemia,	to 1842	15.80.05	998.5		T81.4	15.80.05	Postprocedural septicaemia,
Postprocedural septicaemia: with documented bacteraemia,	to 1842	15.90.53	998.5		T81.4	15.80.05	Postprocedural septicaemia,
Postprocedural septicaemia: with documented fungaemia,	to 1842	15.90.54	998.5		T81.4	15.80.05	Postprocedural septicaemia,
Postprocedural septicaemia: with documented viraemia,	to 1842	15.90.55	998.5		T81.4	15.80.05	Postprocedural septicaemia,
Postprocedural septic shock,	to 1842	15.90.56	785.5		A41.9	10.17.23	Shock,
Postprocedural endocarditis,	to 616	10.06.64	421		33.0	10.06.64	Postprocedural endocarditis,
Postprocedural blood stream infection without septicaemia,	to 627	15.90.57	136.9		T81.4	15.90.01	Postprocedural complication,
Postprocedural cardiac abscess formation,	to 627	10.06.71	429.8		E1.8	10.06.20	Heart abscess,
Postprocedural cardiac abscess formation: perivalvar,	to 627	10.06.72	429.8		E1.8	10.06.20	Heart abscess,
Postprocedural pulmonary infection,	to 3300	15.80.21	997.3		J95.8 J22	15.80.21	Postprocedural pulmonary infection,
Postprocedural ventilator associated pneumonia,	to 3300	15.80.44	997.3		J95.8 J22	15.80.21	Postprocedural pulmonary infection,
Empyema,	to 1961	16.01.11	510.9		J86	16.01.11	Empyema,
Postprocedural acute empyema,	to 1961	15.80.58	510.9	E878.8	J86 Y83.8	16.01.11	Empyema,
Postprocedural chronic empyema,	to 1961	15.80.59	510.9	E878.8	J86 Y83.8	16.01.11	Empyema,
Postprocedural tracheal infection,	to 1	15.80.68	519.1	997.3	J39.8 J95.8	15.80.70	Postprocedural complication involving tracheobronchial tree,
Postprocedural urinary tract infection,	to 627	15.82.04	599.0	997.5	N39.0 Y83.8	15.90.01	Postprocedural complication,
Postprocedural cerebral abscess,	to 627	15.82.66	324	997	G06.0 Y83.8	15.82.66	Postprocedural cerebral abscess,

1842 @ Septicaemia related qualifiers

- primary hospital acquired blood stream infection,	to 627	Q1.68.80				not relevant
- primary hospital acquired blood stream infection: patient with central venous catheter,	to 627	Q1.68.81				not relevant
- primary hospital acquired blood stream infection: patient with arterial catheter,	to 627	Q1.68.82				not relevant
- community acquired blood stream infection,	to 627	Q1.68.83				not relevant
- community acquired blood stream infection: patient with central venous catheter or access device,	to 627	Q1.68.84				not relevant
no entry		not relevant				

End of branch

1845 Postprocedural shock

Postprocedural shock,	to 1	15.67.01	998.0		T81.1	10.17.23	Shock,
Postprocedural anaphylactic shock,	to 1	15.67.02	995.0		T78.2	10.17.23	Shock,
Postprocedural cardiogenic shock,	to 1	15.67.03	998.0		T81.1 R57.0	10.17.23	Shock,
Postprocedural hypovolemic (haemotogenic) shock,	to 1	15.67.04	998.0		T81.1	10.17.23	Shock,
Postprocedural neurogenic shock (spinal injury related),	to 1	15.67.05	998.0		T81.1	10.17.23	Shock,
Post anaesthetic shock,	to 1	15.67.06	995.4		T88.2	10.17.23	Shock,
Postprocedural septic shock,	to 1842	15.90.56	785.5		A41.9	10.17.23	Shock,
Postprocedural vasogenic shock (psychic) (acute stress),	to 1	15.67.07	308.9		F43.0	10.17.23	Shock,

End of branch

1850 Postprocedural integument and wound related complications

Postprocedural integument related complication,	to 1	15.67.20	709.9				
General wound and access related complications	to 1851	not relevant					
Median sternotomy complications & sequelae	to 1855	not relevant					
Lateral thoracotomy complications & sequelae	to 1857	not relevant					
Postprocedural burn,	to 1860	15.67.21	949.0	E878.8	T30.0 Y83.8	15.90.01	Postprocedural complication,
Postprocedural burn: 1st degree,	to 1860	15.67.22	949.1	E878.8	T30.1 Y83.8	15.90.01	Postprocedural complication,
Postprocedural burn: 2nd degree,	to 1860	15.67.23	949.2	E878.8	T30.2 Y83.8	15.90.01	Postprocedural complication,
Postprocedural burn: 3rd degree,	to 1860	15.67.24	949.3	E878.8	T30.3 Y83.8	15.90.01	Postprocedural complication,
Postprocedural burn: 4th degree,	to 1860	15.67.25	949.4	E878.8	T30.4 Y83.8	15.90.01	Postprocedural complication,
Postprocedural excoriation (abrasion),	to 3320	15.67.26	919.0	E878.8	T14.0 Y83.8	15.90.01	Postprocedural complication,
Postprocedural arterial line infiltrate,	to 1861	15.67.27	999.2		Y84.8	15.90.01	Postprocedural complication,
Postprocedural intravenous line infiltrate,	to 1861	15.67.28	999.2		Y84.8	15.90.01	Postprocedural complication,
Postprocedural laceration,	to 1861	15.67.29	999.2		T81.2	15.90.01	Postprocedural complication,
Postprocedural alopecia,	to 3320	15.80.13	709.0	E878.8	L65.9 Y83.8	15.90.01	Postprocedural complication,
Postprocedural pressure sore(s),	to 1864	15.67.30	707.9	E878.8	L89 Y83.8	15.90.01	Postprocedural complication,
Postprocedural traumatic hair loss,	to 3320	15.67.31	704.0	E878.8	L65.9 Y83.8	15.90.01	Postprocedural complication,

1851 General wound and access related complications

Wound related complication,	to 3330	15.67.38	998.9		T81.9	15.67.38	Wound related complication,
Wound infection,	to 3330	15.03.50	998.9		T81.4	15.03.50	Wound infection,
Wound infection: superficial,	to 3330	15.67.32	998.9		T81.4	15.03.50	Wound infection,
Wound infection: deep,	to 3330	15.67.33	998.9		T81.4	15.03.50	Wound infection,
Wound infection requiring surgical intervention,	to 3330	15.67.41	998.9		T81.4	15.67.41	Wound infection requiring surgical intervention,
Infectious agents involved in wound infection	to 627	not relevant					
Wound dehiscence,	to 2900	15.03.51	998.3		T81.3	15.03.51	Wound dehiscence,
Wound dehiscence: sterile,	to 2900	15.67.34	998.3		T81.3	15.03.51	Wound dehiscence,
Wound haematoma,	to 3330	15.67.35	998.1		T81.0	15.67.38	Wound related complication,
Wound foreign body related complication,	to 3330	15.67.36	998.4		T81.5	15.67.38	Wound related complication,
Wound related seroma,	to 3330	15.67.37	998.1		T81.0	15.67.38	Wound related complication,
Chest wall incisional hernia,	to 1	15.03.54	553.2		K43.9	15.67.38	Wound related complication,
Wound related omental herniation,	to 1	15.67.39	998.3		T81.3	15.67.38	Wound related complication,
Failure of minimal access approach,	to 1	15.03.55	998.8		T81.8	15.90.01	Postprocedural complication,
Failure of minimal access approach with requirement for fully open approach,	to 1	15.03.56	998.8		T81.8	15.90.01	Postprocedural complication,
Suture line disruption,	to 1	15.03.70	998.3		T81.3	15.67.38	Wound related complication,
Suture line disruption: acute resulting in haemorrhage,	to 1	15.03.71	998.3		T81.3	15.67.38	Wound related complication,
Suture line disruption: subacute resulting in bleeding or pseudoaneurysm,	to 1	15.03.72	998.3		T81.3	15.67.38	Wound related complication,

1855 Median sternotomy complications & sequelae

Sternum left open,	to 1	15.03.53	nc		nc	15.90.14	Procedure related complication,
Sternum left open: elective (planned),	to 1	15.03.57	nc		nc		
Sternum left open: unplanned,	to 1	15.03.58	nc		nc	15.90.14	Procedure related complication,
Median sternotomy complication,	to 1	15.03.00	998.9		T81.9	15.03.00	Median sternotomy complication,
Major cardiovascular injury during redo-sternotomy,	to 1	15.03.17	998.9		T81.9	15.03.00	Median sternotomy complication,
Major cardiovascular injury during redo-sternotomy requiring emergency institution of cardiopulmonary bypass,	to 1	15.03.18	998.9		T81.9	15.03.00	Median sternotomy complication,
Off midline sternotomy (technical error),	to 1	15.03.20	998.9		T81.9	15.03.00	Median sternotomy complication,
Median sternotomy wound left unclosed,	to 1	15.03.01				15.90.01	Postprocedural complication,
Sterile discharge from median sternotomy wound,	to 1	15.03.02	998.8		T81.8	15.03.00	Median sternotomy complication,
Mediastinitis,	to 1	15.03.52	519.2		J98.5	15.03.52	Mediastinitis,
Infection of median sternotomy wound,	to 1	15.03.03	998.5		T81.4	15.03.03	Infection of median sternotomy wound,
Abscess at site of prior median sternotomy,	to 627	15.03.04	998.5		T81.4	15.03.03	Infection of median sternotomy wound,
Osteomyelitis of median sternotomy wound,	to 1	15.03.05	998.5	730.2	T81.4 M86.8	15.03.03	Infection of median sternotomy wound,
Cellulitis of median sternotomy wound,	to 1	15.03.06	998.5	682.8	T81.4 L03.8	15.03.03	Infection of median sternotomy wound,
Bony sequestrum in median sternotomy wound,	to 1	15.03.07	998.5	730.1	T81.4 M86.6	15.03.03	Infection of median sternotomy wound,
Dehiscence of median sternotomy wound,	to 2900	15.03.08	998.3		T81.3	15.03.08	Dehiscence of median sternotomy wound,
Delayed union of median sternotomy wound,	to 1	15.03.09	733.8	E878.8	M84.2 Y83.8	15.03.00	Median sternotomy complication,
Nonunion of median sternotomy wound,	to 1	15.03.10	733.8	E878.8	M84.1 Y83.8	15.03.00	Median sternotomy complication,
Sternal instability (sterile),	to 2813	15.67.40	996.4			15.03.00	Median sternotomy complication,
Minor instability of median sternotomy wound,	to 1	15.03.11	998.8		T81.8	15.03.00	Median sternotomy complication,
Major instability of median sternotomy wound,	to 1	15.03.12	998.8		T81.8	15.03.00	Median sternotomy complication,
Haemorrhage from median sternotomy wound,	to 1	15.03.13	998.1		T81.0	15.02.00	Postprocedural haemorrhage,
Haematoma in median sternotomy wound,	to 1	15.03.14	998.1		T81.0	15.03.00	Median sternotomy complication,
Keloid-hypertrophic scar of median sternotomy wound,	to 1	15.03.15	701.4		L91.0	15.03.15	Keloid-hypertrophic scar of median sternotomy wound,
Prominent wire in median sternotomy wound,	to 1	15.03.16	998.8		T81.8	15.03.00	Median sternotomy complication,

1857 Lateral thoracotomy complications

Lateral thoracotomy complication,	to 1	15.03.30	998.9		T81.9	15.03.30	Lateral thoracotomy complication,
Right lateral thoracotomy complication,	to 1	15.03.39	998.9		T81.9	15.03.30	Lateral thoracotomy complication,
Left lateral thoracotomy complication,	to 1	15.03.40	998.9		T81.9	15.03.30	Lateral thoracotomy complication,
Sterile discharge from lateral thoracotomy wound,	to 1	15.03.31	998.8		T81.8	15.03.30	Lateral thoracotomy complication,
Sterile discharge from right lateral thoracotomy wound,	to 1	15.03.41	998.8		T81.8	15.03.30	Lateral thoracotomy complication,
Sterile discharge from left lateral thoracotomy wound,	to 1	15.03.42	998.8		T81.8	15.03.30	Lateral thoracotomy complication,
Infection of lateral thoracotomy wound,	to 627	15.03.32	998.5		T81.4	15.03.32	Infection of lateral thoracotomy wound,
Infection of right lateral thoracotomy wound,	to 627	15.03.43	998.5		T81.4	15.03.32	Infection of lateral thoracotomy wound,
Infection of left lateral thoracotomy wound,	to 627	15.03.44	998.5		T81.4	15.03.32	Infection of lateral thoracotomy wound,
Abscess of lateral thoracotomy wound,	to 627	15.03.33	998.5		T81.4	15.03.32	Infection of lateral thoracotomy wound,

Abscess of right lateral thoracotomy wound,	to 627	15.03.67	996.5	T81.4	15.03.32	Infection of lateral thoracotomy wound,
Abscess of left lateral thoracotomy wound,	to 627	15.03.46	996.5	T81.4	15.03.32	Infection of lateral thoracotomy wound,
Cellulitis of lateral thoracotomy wound,	to 1	15.03.24	996.5	682.8 T81.4	L03.8	15.03.32
Cellulitis of right lateral thoracotomy wound,	to 1	15.03.47	996.5	682.8 T81.4	L03.8	15.03.32
Cellulitis of left lateral thoracotomy wound,	to 1	15.03.48	996.5	682.8 T81.4	L03.8	15.03.32
Dehiscence of lateral thoracotomy wound,	to 2900	15.03.35	998.3	T81.3	15.03.32	Infection of lateral thoracotomy wound,
Dehiscence of right lateral thoracotomy wound,	to 2900	15.03.49	998.3	T81.3	15.03.32	Infection of lateral thoracotomy wound,
Dehiscence of left lateral thoracotomy wound,	to 2900	15.03.60	998.3	T81.3	15.03.32	Infection of lateral thoracotomy wound,
Haemorrhage from lateral thoracotomy wound,	to 1	15.03.36	998.1	T81.0	15.02.00	Postprocedural haemorrhage,
Haemorrhage from right lateral thoracotomy wound,	to 1	15.03.61	998.1	T81.0	15.02.00	Postprocedural haemorrhage,
Haemorrhage from left lateral thoracotomy wound,	to 1	15.03.62	998.1	T81.0	15.02.00	Postprocedural haemorrhage,
Haematoma in lateral thoracotomy wound,	to 1	15.03.37	998.1	T81.0	15.03.30	Lateral thoracotomy complication,
Haematoma in right lateral thoracotomy wound,	to 1	15.03.63	998.1	T81.0	15.03.30	Lateral thoracotomy complication,
Haematoma in left lateral thoracotomy wound,	to 1	15.03.64	998.1	T81.0	15.03.30	Lateral thoracotomy complication,
Neuralgia at site of lateral thoracotomy wound,	to 1	15.03.38	729.2	E878.8	M79.2	Y83.8
Neuralgia at site of right lateral thoracotomy wound,	to 1	15.03.65	729.2	E878.8	M79.2	Y83.8
Neuralgia at site of left lateral thoracotomy wound,	to 1	15.03.66	729.2	E878.8	M79.2	Y83.8
1860 @ Postprocedural burn aetiological agents - qualifiers						
- chemical burn,	to 3320	Q1.66.01				not relevant
- diathermy burn,	to 3320	Q1.66.02				not relevant
- due to electricity,	to 3320	Q1.66.03				not relevant
- due to explosion,	to 3320	Q1.66.04				not relevant
- due to extreme cold,	to 3320	Q1.66.05				not relevant
- due to fire,	to 3320	Q1.66.06				not relevant
- due to infiltrate from intravascular catheter,	to 3320	Q1.66.07				not relevant
- due to infiltrate from intra-arterial catheter,	to 3320	Q1.66.08				not relevant
- due to infiltrate from intravenous catheter,	to 3320	Q1.66.09				not relevant
- radiation induced,	to 3320	Q1.34.85				not relevant
- due to skin preparation solution,	to 3320	Q1.66.10				not relevant
no entry	to 3320	not relevant				
1861 @ Postprocedural vascular infiltrate aetiological agents - qualifiers						
- calcium,	to 3320	Q1.87.24				not relevant
- potassium,	to 3320	Q1.87.27				not relevant
- inotropic agent(s),	to 3320	Q1.87.25				not relevant
- medication,	to 3320	Q1.66.11				not relevant
- parenteral nutrition,	to 3320	Q1.87.26				not relevant
Qualifiers for types of medications	to 985	not relevant				
no entry	to 3320	not relevant				
1864 @ Postprocedural pressure sore severity grading qualifiers						
- grade 1: discoloration of intact skin not affected by light finger pressure (non blanching erythema),	to 1865	Q1.66.20				not relevant
- grade 2: partial-thickness skin loss or damage involving epidermis and/or dermis (superficial ulcer presenting as abrasion or blister or shallow crater),	to 1865	Q1.66.21				not relevant
- grade 3: full thickness skin loss with subcutaneous tissue damage (not extending to underlying fascia),	to 1865	Q1.66.22				not relevant
- grade 4: full thickness skin loss with extensive destruction and necrosis extending to underlying fascia,	to 1865	Q1.66.23				not relevant
no entry	to 1865	not relevant				
1865 @ Postprocedural pressure sore aetiology qualifiers						
- due to patient immobility or being bedridden,	to 3320	Q1.66.30				not relevant
- due to unrelieved pressure from medical device,	to 3320	Q1.66.31				not relevant
- due to unrelieved pressure from medical device: BiPAP apparatus,	to 3320	Q1.66.32				not relevant
- due to unrelieved pressure from medical device: endotracheal tube,	to 3320	Q1.66.33				not relevant
- due to unrelieved pressure from medical device: nasal endotracheal tube,	to 3320	Q1.66.34				not relevant
- due to unrelieved pressure from medical device: oral endotracheal tube,	to 3320	Q1.66.35				not relevant
- due to unrelieved pressure from medical device: nasogastric tube,	to 3320	Q1.66.36				not relevant
- due to unrelieved pressure from medical device: orogastric tube,	to 3320	Q1.66.37				not relevant
no entry	to 3320	not relevant				
End of branch _____						
1870 Postprocedural vascular complications: limb ischaemia & thromboembolism						
Postprocedural vascular complication,	to 2910	15.67.50	997.2	89	15.90.01	Postprocedural complication,
Postprocedural acute limb ischaemia,	to 1872	15.67.51	997.2	89	15.90.01	Postprocedural complication,
Postprocedural compartment syndrome,	to 1	15.80.14	958.8	E878.8	T79.6	Y83.8
Postprocedural thromboembolism,	to 3200	15.67.52	453.9	E878.8	82.9	Y83.8
Postprocedural thrombosis,	to 3200	15.67.53	453.9	E878.8	82.9	Y83.8
Postprocedural arterial thrombosis,	to 3200	15.67.54	444.9	E878.8	74.9	Y83.8
Postprocedural venous thrombosis,	to 3200	15.67.55	453.9	E878.8	82.9	Y83.8
Postprocedural intracardiac thrombus,	to 3200	15.67.60	410	E878.8	21.9	Y83.8
Postprocedural new cardiovascular thrombus formation,	to 3200	15.67.59	453.9	E878.8	82.9	Y83.8
Post procedural embolism,	to 3200	15.67.58	444.9	E878.8	74.9	Y83.8
Postprocedural arterial thrombosis or tear with flow obstruction,	to 3200	15.67.61	444.9	E878.8	74.9	Y83.8
Postprocedural venous thrombosis or tear with flow obstruction,	to 3200	15.67.62	444.9	E878.8	74.9	Y83.8
Postprocedural arterial perforation,	to 3200	15.67.63	444.9	E878.8	74.9	Y83.8
Postprocedural venous perforation,	to 3200	15.67.64	444.9	E878.8	74.9	Y83.8
Postprocedural intimal dissection of systemic artery,	to 3200	15.67.65	444.9	E878.8	74.9	Y83.8
Postprocedural femoral venous thrombosis with swollen leg (phlegmasia alba dolens),	to 1872	15.67.56	451.1	E878.8	80.2	Y83.8
Postprocedural deep venous & collateral vessel limb thromboses (phlegmasia cerulea dolens),	to 3200	15.67.57	453.9	E878.8	82.9	Y83.8
1872 @ Postprocedural limb ischaemia aetiology qualifiers						
- associated with vascular dissection,	to 1873	Q1.66.50				not relevant
- associated with vascular embolism,	to 1873	Q1.66.51				not relevant
- associated with vascular thrombosis,	to 1873	Q1.66.52				not relevant
- associated with vasoconstriction,	to 1873	Q1.66.53				not relevant
- associated with compartment syndrome,	to 1873	Q1.66.54				not relevant
- following systemic-to-pulmonary arterial shunt,	to 1873	Q1.66.55				not relevant
- following repair of aortic coarctation,	to 1873	Q1.66.56				not relevant
- following repair of aortic coarctation with subclavian flap,	to 1873	Q1.66.57				not relevant
- associated with prior surgical intervention to ischaemic limb,	to 1873	Q1.66.58				not relevant
- associated with prior transcatheter intervention to ischaemic limb,	to 1873	Q1.66.59				not relevant
- not associated with prior surgical intervention to ischaemic limb,	to 1873	Q1.66.60				not relevant
- not associated with prior transcatheter intervention to ischaemic limb,	to 1873	Q1.66.61				not relevant
- associated with multiple factors,	to 1873	Q1.66.62				not relevant
- aetiology unknown,	to 1873	Q1.90.95				not relevant
- aetiology unspecified,	to 5	Q1.90.97				not relevant
no entry	to 1873	not relevant				
1873 @ Postprocedural limb ischaemia outcome related qualifiers						
- resulting in gangrene,	to 1	Q1.66.70				not relevant
- not requiring surgical intervention,	to 1	Q1.66.71				not relevant
- requiring surgical intervention,	to 1	Q1.66.72				not relevant
- resolved,	to 1	Q1.90.95				not relevant
- resolved spontaneously,	to 1	Q1.90.91				not relevant
no entry	to 1	not relevant				
End of branch _____						
1875 Localised & miscellaneous procedure related complications						
Drug & medication related complications and errors	to 1876	not relevant				
Patient movement complication,	to 2812	15.02.81	E876.9	Y65.8	15.90.01	Postprocedural complication,
Patient movement complication: falling out of bed,	to 2812	15.02.82	E876.9	Y65.8	15.90.01	Postprocedural complication,
Postprocedural retained foreign body,	to 2870	15.80.17	998.4	T81.8	15.90.01	Postprocedural complication,
Procedural related communication problem,	to 1	15.02.83	E876.9	Y65.8	15.90.01	Postprocedural complication,
Procedural related communication problem: delayed blood products,	to 1	15.02.84	E876.9	Y65.8	15.90.01	Postprocedural complication,
Procedural related communication problem: during hand-over,	to 1	15.02.85	E876.9	Y65.8	15.90.01	Postprocedural complication,
Procedural related communication problem: set-up for wrong case,	to 1	15.02.86	E876.9	Y65.8	15.90.01	Postprocedural complication,
Incomplete preprocedural cardiac diagnosis,	to 1	15.02.90	E876.9	Y65.8	15.90.01	Postprocedural complication,
Incomplete preprocedural cardiac diagnosis with clinical consequences,	to 1	15.02.91	E876.9	Y65.8	15.90.01	Postprocedural complication,
Incomplete preprocedural cardiac diagnosis without clinical consequences,	to 1	15.02.92	E876.9	Y65.8	15.90.01	Postprocedural complication,
Wrong preprocedural cardiac diagnosis,	to 1	15.02.93	E876.9	Y65.8	15.90.01	Postprocedural complication,
Wrong preprocedural cardiac diagnosis with clinical consequences,	to 1	15.02.94	E876.9	Y65.8	15.90.01	Postprocedural complication,
Wrong preprocedural cardiac diagnosis without clinical consequences,	to 1	15.02.95	E876.9	Y65.8	15.90.01	Postprocedural complication,
Correct equipment not available for procedure,	to 1	15.02.87	E876.9	Y65.8	15.90.01	Postprocedural complication,
Unsterile instruments for procedure,	to 1	15.02.88	E872.9	Y62.9	15.90.01	Postprocedural complication,
Wrong instruments for procedure,	to 1	15.02.89	E876.9	Y65.8	15.90.01	Postprocedural complication,
Sterile technique breached during performance of procedure,	to 1	15.02.96	E872.0	Y62.9	15.90.01	Postprocedural complication,
Postprocedural allergic reaction,	to 1	15.02.99	995.3	E878.9	T73.4	Y83.8
Procedure related psychiatric episode,	to 1	15.02.97	300.9	E878.9	F99	Y83.8

1876 Drug & medication related complications and errors

Medication related complication or error,	to 985	15.59.00	E858.9	Y63.9	15.59.00	Medication related complication or error.
Medication related error,	to 985	15.59.01	E858.9	Y63.9	15.59.00	Medication related complication or error.
Medication related error: malfunctioning infusion pump,	to 985	15.59.02	E874.1	Y63.6	15.59.00	Medication related complication or error.
Medication related error: given via wrong route,	to 985	15.59.03	977.9	T50.9	15.59.00	Medication related complication or error.
Medication related error: given via wrong route: intra-arterial instead of intravenous,	to 985	15.59.04	977.9	T50.9	15.59.00	Medication related complication or error.
Medication related error: wrong dose of drug,	to 985	15.59.05	E858.9	Y63.9	15.59.00	Medication related complication or error.
Medication error: incorrect infusion rate,	to 985	15.59.06	E858.9	Y63.9	15.59.00	Medication related complication or error.
Medication error: wrong drug,	to 985	15.59.07	E858.9	T50.9	15.59.00	Medication related complication or error.
Medication error: wrong drug infusion,	to 985	15.59.08	977.9	Y65.1	15.59.00	Medication related complication or error.
Anaphylactic or anaphylactoid reaction to medication,	to 985	15.59.09	995.0	T88.6	15.59.00	Medication related complication or error.
Adverse reaction to medication,	to 985	15.59.12	995.0	T88.6	15.59.00	Medication related complication or error.
Prothamine reaction,	to 1	15.59.10	995.2	T88.7	Y44.3	Medication related complication or error.
Heparin resistance,	to 1	15.59.11	995.2	T88.7	15.59.00	Medication related complication or error.
Prostaglandin induced apnoea,	to 1	15.59.13			15.59.00	Medication related complication or error.

End of branch

1880 Peri- & postprocedural cardiovascular disorders-complications

Procedure related cardiac complication,	to 1	15.00.00	997.1	T81.8	15.90.14	Procedure related complication,		
Procedure related arrhythmias	to 1881	not relevant						
Cardiac arrest during procedure,	to 806	15.00.01	997.1	T81.8	15.00.01	Cardiac arrest during procedure,		
Cardiac arrest following procedure,	to 806	15.00.02	997.1	87.8	15.00.02	Cardiac arrest following procedure,		
Cardiac arrest during or following procedure,	to 806	15.00.23	997.1	87.8	15.00.02	Cardiac arrest following procedure,		
Postprocedural low cardiac output,	to 1883	15.00.03	997.1	87.1	15.00.03	Postprocedural low cardiac output,		
Postprocedural cardiac dysfunction,	to 668	15.00.24	997.1	87.1	15.00.03	Postprocedural low cardiac output,		
Postprocedural cardiac dysfunction causing low cardiac output,	to 668	15.00.11	997.1	87.1	15.00.03	Postprocedural low cardiac output,		
Postprocedural cardiac dysfunction causing low cardiac output: acute,	to 668	15.00.12	997.1	87.1	15.00.03	Postprocedural low cardiac output,		
Postprocedural cardiac dysfunction causing low cardiac output: chronic,	to 668	15.00.13	997.1	87.1	15.00.03	Postprocedural low cardiac output,		
Postprocedural severe cardiac dysfunction (inotrope dependence, mechanical support),	to 1	15.00.14	997.1	87.1	15.00.03	Postprocedural low cardiac output,		
Postprocedural requirement for high inotropic support (over 0.1mcg/kg/min epinephrine),	to 1885	15.00.10	997.1	87.1	15.00.03	Postprocedural low cardiac output,		
Postprocedural myocardial depression,	to 1883	15.00.04	997.1	87.1	15.00.03	Postprocedural low cardiac output,		
Postprocedural cardiac false aneurysm (pseudo'),	to 1	10.06.73	997.1	T81.8	01.01.39	Cardiac abnormality,		
Postprocedural requirement for mechanical circulatory support,	to 1886	15.00.09	997.1	87.8	15.00.09	Postprocedural requirement for mechanical circulatory support,		
Intraoperative requirement for mechanical circulatory support,	to 1886	15.00.15	997.1	87.8	15.00.09	Postprocedural requirement for mechanical circulatory support,		
Myocardial infarction during procedure,	to 678	15.00.05	997.1	410	87.8	I21	10.18.00	Myocardial infarction,
Myocardial infarction following procedure,	to 678	15.00.06	997.1	410	87.8	I21	10.18.00	Myocardial infarction,
Myocardial infarction related to procedure,	to 678	15.00.18	997.1	410	87.8	I21	10.18.00	Myocardial infarction,
Postprocedural systemic arterial hypertension,	to 1	15.00.07	997.1	87.8			10.14.00	Secondary systemic hypertension,
Postprocedural systemic air or thrombus embolus,	to 1	15.00.20	999.1	T81.7	15.90.01			Postprocedural complication,
Postprocedural vascular or conduit thrombosis,	to 3200	15.00.21	998.1	T81.0	15.90.01			Postprocedural complication,
Postprocedural vessel trauma,	to 3200	15.00.22	998.2	T81.2	15.90.01			Postprocedural complication,
Postprocedural hypotension,	to 1883	15.00.08	997.1	T81.8	15.00.03			Postprocedural low cardiac output,
Requirement for reoperation for graft occlusion,	to 1	15.00.16	998.9	T81.8	15.90.01			Postprocedural complication,
Postprocedural hypoxaemia,	to 2812	15.00.17	998.9	T81.8	15.90.01			Postprocedural complication,
Postprocedural valvar regurgitation,	to 2800	15.00.19	424.9	E878.9	88	Y83.8	10.32.00	Heart valvar abnormality: acquired,
Postprocedural hypovolaemia	to 1890	not relevant						
Postprocedural hypervolaemia	to 1895	not relevant						

1881 Procedure related arrhythmias

Arrhythmia during procedure,	to 800	15.60.01	997.1	87.8	Y49.9	11.00.00	Arrhythmia,	
Arrhythmia following procedure,	to 800	15.60.02	997.1	87.8	Y49.9	15.60.02	Arrhythmia following procedure,	
Postprocedural sinoatrial dysfunction,	to 800	11.02.06	997.1	87.1	11.02.03		Sinus node dysfunction (including sick sinus),	
Postprocedural atrial rhythm disturbance,	to 800	11.03.11	997.1	87.1	15.60.02		Arrhythmia following procedure,	
Postprocedural ventricular rhythm disturbance,	to 800	11.05.13	997.1	87.1	15.60.02		Arrhythmia following procedure,	
Junctional ectopic tachycardia (His bundle): post-op,	to 800	11.04.12	997.1	87.1	11.04.12		Junctional ectopic tachycardia (His bundle): post-op,	
Postprocedural non-specific ST-T wave changes,	to 1	15.60.04	997.1	87.1	11.20.00		Electrocardiographic (ECG) abnormality,	
Postprocedural conduction disturbance,	to 850	15.60.03	997.1	87.1	11.06.00		Conduction disturbance,	
Procedure related non-heart block arrhythmia requiring temporary pacing,	to 1	15.60.05	997.1	87.1	11.06.00		Conduction disturbance,	
Procedure related non-heart block arrhythmia requiring permanent pacemaker system,	to 1	15.60.06	997.1	87.1	11.06.00		Conduction disturbance,	
Postprocedural complete atrioventricular block - transient,	to 800	11.06.17	426	997.1	44.2	Y83.8	11.06.17	Postprocedural complete AV block,
Postprocedural complete atrioventricular block - sustained,	to 800	11.06.09	426	997.1	44.2	Y83.8	11.06.17	Postprocedural complete AV block,
Postprocedural complete atrioventricular block - sustained,	to 800	11.06.15	426	997.1	44.2	Y83.8	11.06.17	Postprocedural complete AV block,
Procedure related complete atrioventricular block requiring temporary pacing,	to 800	11.06.32	426	997.1	44.2	Y83.8	11.06.32	Procedure related complete AV block requiring temporary pacing,
Procedure related complete atrioventricular block requiring permanent pacemaker system,	to 800	11.06.33	426	997.1	44.2	Y83.8	11.06.33	Procedure related complete AV block requiring permanent pacemaker system,

1882 @ Treatments required for low cardiac output states: qualifiers

- no treatment given,	to 1883	Q1.09.24				not relevant
- requiring fluid resuscitation,	to 1883	Q1.09.20				not relevant
- requiring diuretic therapy,	to 1883	Q1.09.25				not relevant
- requiring inotropic support,	to 1883	Q1.09.21				not relevant
- requiring high inotropic support (over 0.1mcg/kg/min epinephrine),	to 1883	Q1.09.22				not relevant
- requiring inodilator therapy,	to 1883	Q1.09.26				not relevant
- requiring angiotensin converting enzyme (ACE) inhibitor therapy,	to 1883	Q1.09.27				not relevant
- requiring pulmonary vasodilator therapy,	to 1883	Q1.09.28				not relevant
- requiring mechanical ventilatory support,	to 1883	Q1.09.29				not relevant
- requiring mechanical circulatory support,	to 1886	Q1.09.23				not relevant
Requiring renal dialysis	to 1974	not relevant				not relevant
no entry		not relevant				not relevant

1883 @ Treatment responsiveness for low cardiac output and hypotension: qualifiers

- spontaneously improved,	to 1885	Q1.09.01				not relevant
- responsive to inotropic support,	to 1885	Q1.09.02				not relevant
- not responsive to inotropic support,	to 1885	Q1.09.03				not relevant
- responsive to intravascular volume,	to 1885	Q1.09.04				not relevant
- not responsive to intravascular volume,	to 1885	Q1.09.05				not relevant
- responsive to diuretic therapy,	to 1885	Q1.09.06				not relevant
- not responsive to diuretic therapy,	to 1885	Q1.09.07				not relevant
- responsive to inodilator therapy,	to 1885	Q1.09.08				not relevant
- not responsive to inodilator therapy,	to 1885	Q1.09.09				not relevant
- responsive to ventilatory manoeuvres,	to 1885	Q1.09.10				not relevant
- not responsive to ventilatory manoeuvres,	to 1885	Q1.09.11				not relevant
- responsive to pulmonary hypertension therapy,	to 1885	Q1.09.12				not relevant
- not responsive to pulmonary hypertension therapy,	to 1885	Q1.09.13				not relevant
- leading to cardiac arrest,	to 1885	Q1.09.14				not relevant
no entry	to 1885	not relevant				not relevant

1885 @ Causes of poor cardiac performance-output - qualifiers

- unspecified-unknown cause,	to 951	Q1.01.30				not relevant
- due to exacerbation of a pre-existing lesion,	to 951	Q1.01.31				not relevant
- due to metabolic derangement,	to 1935	Q1.01.32	277.9		E88.9	not relevant
- due to ischaemic injury,	to 951	Q1.01.33	410		I21	not relevant
- due to myocardial infarction,	to 672	Q1.01.34	410		I21	not relevant
- due to failed myocardial protection,	to 951	Q1.01.35				not relevant
- due to drug toxicity,	to 951	Q1.01.36	995.2		T88.7	not relevant
- due to surgical trauma,	to 951	Q1.01.37				not relevant
- due to myocardial rejection,	to 951	Q1.01.38	996.8		T86.2	not relevant
- due to infection,	to 951	Q1.01.39	996.5		T81.4	not relevant
- due to catecholamines,	to 951	Q1.01.40	995.2		T88.7	not relevant
- due to acidosis,	to 1936	Q1.01.41	276.2		E87.2	not relevant
- cause of poor cardiac performance (DESCRIBE),	to 951	Q1.01.49				not relevant
no entry	to 951	not relevant				not relevant

1886 @ Requirement for mechanical circulatory support qualifiers

- IABP or VAD or ECMO or CPS,	to 1	Q1.73.01				not relevant
- extracorporeal membrane oxygenation (ECMO),	to 1	Q1.73.02				not relevant
- left ventricular assist device (LVAD),	to 1	Q1.73.03				not relevant
- right ventricular assist device (RVAD),	to 1	Q1.73.04				not relevant
- biventricular assist device (BVAD),	to 1	Q1.73.05				not relevant
- intra-aortic balloon pump (IABP),	to 1	Q1.73.06				not relevant
- cardiopulmonary support (CPS),	to 1	Q1.73.07				not relevant
- planned intraoperative implementation (Ungerleider approach),	to 1	Q1.73.08				not relevant
- unplanned intraoperative implementation,	to 1	Q1.73.09				not relevant
- elective postprocedural implementation,	to 1	Q1.73.10				not relevant
- emergency unplanned postprocedural implementation,	to 1	Q1.73.11				not relevant
no entry	to 1	not relevant				not relevant

1890 Postprocedural hypovolaemia

Postprocedural hypovolaemia,	to 1	15.00.30	998.0	T81.1	15.00.30	Postprocedural hypovolaemia,
Absolute hypovolaemia,	to 1	15.00.31	998.0	T81.1	15.00.30	Postprocedural hypovolaemia,
Absolute hypovolaemia due to haemorrhage,	to 1	15.00.32	998.0	T81.1	15.00.30	Postprocedural hypovolaemia,
Absolute hypovolaemia due to plasma loss,	to 1	15.00.33	998.0	T81.1	15.00.30	Postprocedural hypovolaemia,
Absolute hypovolaemia due to gastrointestinal loss,	to 1	15.00.34	998.0	T81.1	15.00.30	Postprocedural hypovolaemia,
Absolute hypovolaemia due to uncompensated diuresis,	to 1	15.00.35	998.0	T81.1	15.00.30	Postprocedural hypovolaemia,

iatrogenic absolute hypovolaemia,	to 1	15.00.36	996.0		T81.1	15.00.30	Postprocedural hypovolaemia,	
Relative hypovolaemia - vasodilation,	to 1	15.00.37	998.0		T81.1	15.00.30	Postprocedural hypovolaemia,	
Drug induced relative hypovolaemia (vasodilation),	to 1	15.00.38	995.0		T88.6	15.00.30	Postprocedural hypovolaemia,	
Relative hypovolaemia (vasodilation) due to sepsis,	to 1	15.00.39	998.0		T81.1	15.00.30	Postprocedural hypovolaemia,	
Postprocedural vasovagal syncope,	to 1	15.00.40	997.1		T81.7	15.90.01	Postprocedural complication,	
1895 Postprocedural hypervolaemia								
Postprocedural hypervolaemia,	to 1	15.00.51	998.8		T81.8	15.90.01	Postprocedural complication,	
Postprocedural hypervolaemia - colloid induced,	to 1	15.00.52	998.8	E873.0	T81.8	Y63.0	Postprocedural complication,	
Postprocedural hypervolaemia - blood induced,	to 1	15.00.53	998.8	E873.0	T81.8	Y63.0	Postprocedural complication,	
Postprocedural hypervolaemia - crystalloid induced,	to 1	15.00.54	998.8	E873.0	T81.8	Y63.0	Postprocedural complication,	
End of branch								
1900 Peri- & postprocedural bleeding & haematological complications								
Postprocedural haematological complication,	to 1	15.02.70	289.9	E878.9	D75.9	Y83.8	15.90.01	Postprocedural complication,
Haematological non-bleeding complications	to 1901	not relevant						
Haemorrhage from specific site, cannulation site & suture line	to 1908	not relevant						
Postprocedural haemolysis	to 1920	not relevant						
Postprocedural haemorrhage,	to 1	15.02.00	998.1		T81.0	15.02.00	Postprocedural haemorrhage,	
Postprocedural haemorrhage requiring transfusion,	to 1	15.02.64	998.1		T81.0	15.02.00	Postprocedural haemorrhage,	
Postprocedural haemorrhage requiring reoperation,	to 1	15.02.65	998.1		T81.0	15.02.65	Postprocedural haemorrhage requiring reoperation,	
Postprocedural haemorrhage requiring reoperation whilst on mechanical support,	to 1	15.02.17	998.1		T81.0	15.02.65	Postprocedural haemorrhage requiring reoperation,	
Postprocedural haemorrhage resolved without reoperation,	to 1	15.02.18	998.1		T81.0	15.02.00	Postprocedural haemorrhage,	
Intraoperative haemorrhage,	to 1	15.02.60	998.1		T81.0	15.02.00	Postprocedural haemorrhage,	
Haemorrhage from suture line,	to 1	15.02.61	998.1		T81.0	15.02.00	Postprocedural haemorrhage,	
Haemorrhage from cannulation site,	to 1	15.02.62	998.1		T81.0	15.02.00	Postprocedural haemorrhage,	
Haematoma at cannulation site,	to 1	15.02.63	998.1		T81.0	15.02.00	Postprocedural haemorrhage,	
Periprocedural retroperitoneal haematoma,	to 1916	15.02.66	998.1		T81.0	15.02.00	Postprocedural haemorrhage,	
Haemorrhage from median sternotomy wound,	to 1	15.03.13	998.1		T81.0	15.02.00	Postprocedural haemorrhage,	
Postprocedural mediastinal bleeding,	to 1915	16.49.01	998.1		T81.0	15.02.00	Postprocedural haemorrhage,	
Haemorrhage from lateral thoracotomy wound,	to 1	15.03.36	998.1		T81.0	15.02.00	Postprocedural haemorrhage,	
Haemorrhage from right lateral thoracotomy wound,	to 1	15.03.61	998.1		T81.0	15.02.00	Postprocedural haemorrhage,	
Haemorrhage from left lateral thoracotomy wound,	to 1	15.03.62	998.1		T81.0	15.02.00	Postprocedural haemorrhage,	
Post procedural bleeding from not thoracic incision,	to 1916	15.02.19	998.1		T81.0	15.02.00	Postprocedural haemorrhage,	
Persistent postoperative bleeding,	to 1	15.02.01	998.1		T81.0	15.02.00	Postprocedural haemorrhage,	
Anticoagulation related haemorrhage,	to 1	15.02.02	286.5		D68.3	15.02.00	Postprocedural haemorrhage,	
Complication due to anticoagulation therapy,	to 1	15.02.71	286.5		D68.3	15.59.00	Medication related complication or error,	
Complication due to anticoagulation therapy for prosthetic valve,	to 1	15.02.14	286.5		D68.3	15.59.00	Medication related complication or error,	
Difficulty in achieving adequate anticoagulation,	to 1	15.02.72	286.5		D68.3	15.59.00	Medication related complication or error,	
Prothrombotic complication due to anticoagulation therapy,	to 1	15.02.73	286.5		D68.3	15.59.00	Medication related complication or error,	
Complication due to intraprocedural heparin administration,	to 1	15.02.74	286.5		D68.3	15.59.00	Medication related complication or error,	
Postprocedural coagulopathy,	to 1	15.02.03	286.9	E878.9	D68.9	Y83.8	15.02.03	Postprocedural coagulopathy,
Postprocedural bleeding due to coagulopathy,	to 1	15.02.15	286.9	E878.9	D68.9	Y83.8	15.02.03	Postprocedural coagulopathy,
Postprocedural bleeding due to dilutional coagulopathy,	to 1	15.02.16	286.9	E878.9	D68.9	Y83.8	15.02.03	Postprocedural coagulopathy,
Heparin Induced Thrombocytopenia (HIT),	to 1	15.02.75	287.4	E934.2	D69.5	Y44.2	15.59.00	Medication related complication or error,
Postprocedural sickle cell crisis,	to 1	15.02.76	282.6	E878.9	D57.0	Y83.8	15.90.14	Procedure related complication,
1901 Haematological non-bleeding complications								
Postprocedural anaemia,	to 1	15.02.08	281.9	E878.9	D64.9	Y83.8	15.80.00	General systemic complication after cardiac procedure,
Postprocedural requirement for blood product transfusion,	to 1	15.03.89	998.8		T81.8	15.80.00	General systemic complication after cardiac procedure,	
Postprocedural leucopenia,	to 1	15.02.09	288.9	E878.9	D72.9	Y83.8	15.80.00	General systemic complication after cardiac procedure,
Postprocedural thrombocytopenia,	to 1	15.02.10	287.4	E878.9	D69.5	Y83.8	15.80.00	General systemic complication after cardiac procedure,
Postprocedural disseminated intravascular coagulation (DIC),	to 1	15.02.11	286.6	E878.9	D65	Y83.8	15.02.03	Postprocedural coagulopathy,
Anaphylactic reaction to antifibrinolytic drug,	to 985	15.03.80	E934.4		Y44.5	15.59.00	Medication related complication or error,	
Prothrombotic and/or haemorrhagic reaction to antifibrinolytic drug,	to 985	15.03.85	E934.4		Y44.5	15.59.00	Medication related complication or error,	
Cold agglutinin reaction,	to 1	15.03.81	E934.7		Y44.6	15.59.00	Medication related complication or error,	
Prolamine reaction,	to 1	15.03.82	E934.5		Y44.3	15.59.00	Medication related complication or error,	
Prolamine reaction: biochemically confirmed,	to 1	15.03.83	E934.5		Y44.3	15.59.00	Medication related complication or error,	
Prolamine reaction: clinically suspected,	to 1	15.03.84	E934.5		Y44.3	15.59.00	Medication related complication or error,	
Reaction to blood products,	to 1904	15.03.86	E934.7		Y44.6	15.59.00	Medication related complication or error,	
Reaction to blood products: minor,	to 1904	15.03.87	E934.7		Y44.6	15.59.00	Medication related complication or error,	
Reaction to blood products: major,	to 1904	15.03.88	E934.7		Y44.6	15.59.00	Medication related complication or error,	
1904 @ Reaction to blood products qualifiers								
- post-transplant graft versus host disease,	to 1	Q1.73.30					not relevant	
- reaction to packed red blood cells	to 1	Q1.73.31					not relevant	
- reaction to plasma,	to 1	Q1.73.32					not relevant	
- reaction to platelets,	to 1	Q1.73.33					not relevant	
- reaction to cryoprecipitate,	to 1	Q1.73.37					not relevant	
- due to ABO mismatched transfusion,	to 1	Q1.73.34					not relevant	
- due to administration of wrong blood product,	to 1	Q1.73.35					not relevant	
- due to error from improperly identifying patient,	to 1	Q1.73.36					not relevant	
no entry	to 1	not relevant						
1908 Haemorrhage from specific cardiovascular site								
Postprocedural great vein bleeding complications	to 1912	not relevant						
Postprocedural arterial bleeding complication,	to 1915	15.02.38	998.1		T81.0	15.02.00	Postprocedural haemorrhage,	
Postprocedural transthoracic line bleeding complication,	to 1915	15.02.37	998.1		T81.0	15.02.00	Postprocedural haemorrhage,	
Postprocedural right atrial bleeding complication,	to 1915	15.02.21	998.1		T81.0	15.02.00	Postprocedural haemorrhage,	
Postprocedural left atrium bleeding complication,	to 1915	15.02.22	998.1		T81.0	15.02.00	Postprocedural haemorrhage,	
Postprocedural right ventricular bleeding complication,	to 1915	15.02.23	998.1		T81.0	15.02.00	Postprocedural haemorrhage,	
Postprocedural left ventricular bleeding complication,	to 1915	15.02.24	998.1		T81.0	15.02.00	Postprocedural haemorrhage,	
Postprocedural pulmonary trunk bleeding complication,	to 1915	15.02.25	998.1		T81.0	15.02.00	Postprocedural haemorrhage,	
Postprocedural right pulmonary artery bleeding complication,	to 1915	15.02.26	998.1		T81.0	15.02.00	Postprocedural haemorrhage,	
Postprocedural left pulmonary artery bleeding complication,	to 1915	15.02.27	998.1		T81.0	15.02.00	Postprocedural haemorrhage,	
Postprocedural aorta bleeding complication,	to 1915	15.02.36	998.1		T81.0	15.02.00	Postprocedural haemorrhage,	
Postprocedural ascending aorta bleeding complication,	to 1915	15.02.28	998.1		T81.0	15.02.00	Postprocedural haemorrhage,	
Postprocedural descending aorta bleeding complication,	to 1915	15.02.29	998.1		T81.0	15.02.00	Postprocedural haemorrhage,	
Postprocedural arterial duct bleeding complication,	to 1915	15.02.30	998.1		T81.0	15.02.00	Postprocedural haemorrhage,	
Postprocedural carotid artery bleeding complication,	to 1915	15.02.31	998.1		T81.0	15.02.00	Postprocedural haemorrhage,	
Postprocedural axillary artery bleeding complication,	to 1915	15.02.32	998.1		T81.0	15.02.00	Postprocedural haemorrhage,	
Postprocedural brachial artery bleeding complication,	to 1915	15.02.33	998.1		T81.0	15.02.00	Postprocedural haemorrhage,	
Postprocedural femoral artery bleeding complication,	to 1915	15.02.34	998.1		T81.0	15.02.00	Postprocedural haemorrhage,	
Postprocedural radial artery bleeding complication,	to 1915	15.02.35	998.1		T81.0	15.02.00	Postprocedural haemorrhage,	
1912 Postprocedural great vein bleeding complications								
Postprocedural systemic vein bleeding complication,	to 1915	15.02.40	998.1		T81.0	15.02.00	Postprocedural haemorrhage,	
Postprocedural superior caval vein (SVC) bleeding complication,	to 1915	15.02.41	998.1		T81.0	15.02.00	Postprocedural haemorrhage,	
Postprocedural inferior caval vein (IVC) bleeding complication,	to 1915	15.02.42	998.1		T81.0	15.02.00	Postprocedural haemorrhage,	
Postprocedural pulmonary vein bleeding complication,	to 1915	15.02.43	998.1		T81.0	15.02.00	Postprocedural haemorrhage,	
Postprocedural axillary vein bleeding complication,	to 1915	15.02.44	998.1		T81.0	15.02.00	Postprocedural haemorrhage,	
Postprocedural subclavian vein bleeding complication,	to 1915	15.02.45	998.1		T81.0	15.02.00	Postprocedural haemorrhage,	
Postprocedural jugular vein bleeding complication,	to 1915	15.02.46	998.1		T81.0	15.02.00	Postprocedural haemorrhage,	
Postprocedural femoral vein bleeding complication,	to 1915	15.02.47	998.1		T81.0	15.02.00	Postprocedural haemorrhage,	
1915 @ Site and nature of bleeding complication - qualifiers								
- intraoperative haemorrhage,	to 1917	Q1.02.81					not relevant	
- haemorrhage from suture line,	to 1917	Q1.02.82					not relevant	
- haemorrhage from cannulation site,	to 1917	Q1.02.83					not relevant	
- haemorrhage at sternotomy,	to 1917	Q1.02.84					not relevant	
- haematoma at cannulation site,	to 1917	Q1.02.85					not relevant	
- vascular tear,	to 1917	Q1.02.86					not relevant	
- vascular tear: confined (extravasation not increasing in size),	to 1917	Q1.02.87					not relevant	
- vascular tear: not confined (extravasation increasing in size),	to 1917	Q1.02.88					not relevant	
- intravascular tear with flow obstruction,	to 1917	Q1.02.90					not relevant	
- thrombosis,	to 1917	Q1.06.35		453.9		82.9	not relevant	
- site of bleeding complication (DESCRIBE),	to 1	Q1.02.89					not relevant	
Site of aorta bleeding - qualifiers	to 699	not relevant						
Other specific vessel complications	to 2910	not relevant						
no entry	to 1	not relevant						
1916 @ Postprocedural complication of non-thoracic incision - anatomical site qualifiers								
- groin incision,	to 1917	Q1.02.30					not relevant	
- right groin incision,	to 1917	Q1.02.31					not relevant	
- left groin incision,	to 1917	Q1.02.32					not relevant	
- leg incision,	to 1917	Q1.02.33					not relevant	
- right leg incision,	to 1917	Q1.02.34					not relevant	
- left leg incision,	to 1917	Q1.02.35					not relevant	
- neck incision,	to 1917	Q1.02.36					not relevant	
- right neck incision,	to 1917	Q1.02.37					not relevant	
- left neck incision,	to 1917	Q1.02.38					not relevant	
no entry	to 1	not relevant						

1917 @ Outcome and treatment after bleeding complications - qualifiers

- requiring administration of blood products,	to 1	Q1.02.40				not relevant
- requiring blood product administration but not reexploration	to 1	Q1.02.41				not relevant
- requiring reexploration	to 1	Q1.02.42				not relevant
- requiring reoperation	to 1	Q1.83.10				not relevant
- requiring reoperation whilst on mechanical support,	to 1	Q1.02.44				not relevant
- resolved without reoperation,	to 1	Q1.02.45				not relevant
no entry	to 1	not relevant				

1920 Postprocedural haemolysis

Postprocedural haemolysis,	to 1920	15.02.07	283.1	996.7	D59.8	Y83.8	15.02.07	Postprocedural haemolysis,
Mechanical haemolysis due to prosthetic patch,	to 1	15.02.04	283.1	996.7	D59.4	T82.8	15.02.07	Postprocedural haemolysis,
Mechanical haemolysis due to atriocentric valve prosthesis,	to 1	15.17.12	283.1	996.7	D59.4	T82.8	15.02.07	Postprocedural haemolysis,
Mechanical haemolysis due to extracorporeal assist device,	to 1	15.02.05	283.1	996.7	D59.4	T82.8	15.02.07	Postprocedural haemolysis,
Mechanical haemolysis due to haemofiltration device,	to 1	15.02.06	283.1	996.7	D59.4	T82.8	15.02.07	Postprocedural haemolysis,
Mechanical haemolysis due to transcatheter implanted device,	to 1660	15.02.12	283.1	996.7	D59.4	T82.8	15.02.07	Postprocedural haemolysis,
Mechanical haemolysis due to ventricular septal defect (VSD) closure device,	to 600	15.22.33	283.1	996.7	D59.4	T82.8	15.02.07	Postprocedural haemolysis,
Mechanical haemolysis due to prosthetic valve,	to 1	15.02.13	283.1	996.7	D59.4	T82.8	15.02.07	Postprocedural haemolysis,
End of branch								

1925 Postprocedural general and noncardiac complications

Postprocedural infection related complications	to 1840	not relevant						
Systemic & metabolic complications after cardiac procedures	to 1930	not relevant						
Localised & miscellaneous procedure related complications	to 1875	not relevant						
Respiratory & thoracic complications after cardiac procedures	to 1950	not relevant						
Renal complications: generic and after cardiac procedures	to 1970	not relevant						
Gastrointestinal complications after cardiac procedures	to 1980	not relevant						
Neurological complications after cardiac procedures	to 1990	not relevant						
Noncardiac reoperation required,	to 1	15.90.17	999.9		T88.8		15.90.01	Postprocedural complication,
Noncardiac reoperation required during same admission (unplanned),	to 1	15.90.18	999.9		T88.8		15.90.01	Postprocedural complication,
Procedure related corneal abrasion,	to 2812	15.02.80	918.1	E876.8	S05.0	Y83.8	15.90.14	Procedure related complication,

1930 Systemic & metabolic complications after cardiac procedures

General systemic complication after cardiac procedure,	to 1	15.80.00	999.9		T81.8		15.80.00	General systemic complication after cardiac procedure,
Multiple organ dysfunction syndrome (MODS) (multisystem organ failure-MSOF),	to 1	15.80.16	998.9		T81.8		15.80.16	Multiple organ dysfunction syndrome (MODS),
Systemic inflammatory response syndrome (SIRS),	to 1	15.80.19	998.0		T81.1		15.80.19	Systemic inflammatory response syndrome (SIRS),
Postprocedural metabolic derangement,	to 1935	15.80.01	277.9	E878.8	E88.9	Y83.8	15.80.01	Postprocedural metabolic derangement,
Periprocedural electrolyte imbalance,	to 1935	15.79.01	277.9	E878.8	E88.9	Y83.8	15.80.01	Postprocedural metabolic derangement,
Acidosis associated with procedure (before-during-after),	to 1936	15.81.52	276.2		E87.2		15.80.15	Postprocedural acidosis,
Acidosis during procedure (intra-procedural),	to 1936	15.81.51	276.2	E878.8	E87.2	Y83.8	15.80.15	Postprocedural acidosis,
Postprocedural acidosis,	to 1936	15.80.15	276.2	E878.8	E87.2	Y83.8	15.80.15	Postprocedural acidosis,
Postprocedural endocrine related complications	to 1931	not relevant						
Drug induced metabolic derangement,	to 1935	15.80.02	995.2		T88.7		15.80.01	Postprocedural metabolic derangement,
Iatrogenic metabolic derangement,	to 1935	15.80.03	277.9	E878.8	T88.9	Y65.8	15.80.01	Postprocedural metabolic derangement,
Postprocedural blood gas derangement,	to 1936	15.80.04	997.9		T81.8		15.80.01	Postprocedural metabolic derangement,
Procedure related hypoxia,	to 951	15.79.03	997.9		T81.8		15.80.01	Postprocedural metabolic derangement,
Capillary leak syndrome,	to 1812	15.80.06	998.8		T81.8		15.80.06	Capillary leak syndrome,
Postprocedural systemic thromboembolism,	to 1	15.80.07	997.2		T81.7		15.80.00	General systemic complication after cardiac procedure,
Postprocedural thromboembolism associated with implanted prosthetic valve,	to 1	15.81.50	997.2		T81.7		15.80.00	General systemic complication after cardiac procedure,
Postprocedural paradoxical systemic thromboembolism,	to 1	15.80.08	997.2		T81.7		15.80.00	General systemic complication after cardiac procedure,
Hypothermia	to 1945	not relevant						
Postprocedural pyrexia (over 38 degrees Celsius),	to 1	15.79.02	780.6	E878.8	R50.9	Y83.8	15.80.00	General systemic complication after cardiac procedure,
Malignant hyperthermia-hyperpyrexia,	to 1	15.80.09	995.8		T88.3		15.80.00	General systemic complication after cardiac procedure,
Post-transfusion graft versus host disease,	to 1	15.80.10	999.8		T86.0	T80.8	15.80.00	General systemic complication after cardiac procedure,
Post-perfusion syndrome,	to 1	15.80.11	999.2		T81.8		15.80.00	General systemic complication after cardiac procedure,
Cytomegalic post-perfusion syndrome,	to 1	15.80.12	998.5		T80.2		15.80.00	General systemic complication after cardiac procedure,

1931 Postprocedural endocrine related complications

Postprocedural endocrine related complication,	to 951	15.84.20	259.9	E878.8	E89.9		15.80.00	General systemic complication after cardiac procedure,
Postprocedural adrenal related complication,	to 951	15.84.21	255.9	E878.8	E27.8	Y83.8	15.80.00	General systemic complication after cardiac procedure,
Postprocedural adrenal related complication: absolute adrenal insufficiency,	to 951	15.84.22	255.4	E878.8	E89.6		15.80.00	General systemic complication after cardiac procedure,
Postprocedural adrenal related complication: activated adrenal response,	to 951	15.84.23	255.8	E878.8	E27.8	Y83.8	15.80.00	General systemic complication after cardiac procedure,
Postprocedural adrenal related complication: insufficient basal cortisol,	to 951	15.84.24	255.4	E878.8	E89.6		15.80.00	General systemic complication after cardiac procedure,
Postprocedural adrenal related complication: relative adrenal insufficiency,	to 951	15.84.25	255.4	E878.8	E89.6		15.80.00	General systemic complication after cardiac procedure,
Postprocedural relative vasopressin deficiency (diabetes insipidus),	to 951	15.84.26	253.5	E878.8	E23.2	Y83.8	15.80.00	General systemic complication after cardiac procedure,
Postprocedural syndrome of inappropriate antidiuretic hormone secretion,	to 951	15.84.27	253.6	E878.8	E22.2	Y83.8	15.80.00	General systemic complication after cardiac procedure,
Postprocedural hypothyroidism,	to 951	15.84.28	244.0		E89.0		15.80.00	General systemic complication after cardiac procedure,
Postprocedural sick euthyroid syndrome (non-thyroidal illness syndrome),	to 951	15.84.29	246.8	E878.8	E07.8	Y83.8	15.80.00	General systemic complication after cardiac procedure,
Postprocedural hypoinsulinaemia,	to 951	15.84.30	251.3		E89.1		15.80.00	General systemic complication after cardiac procedure,

1935 @ Specific metabolic derangement - qualifiers

- specific metabolic derangement,	to 951	Q1.81.29						not relevant
- pre-existing metabolic derangement,	to 951	Q1.81.18						not relevant
- metabolic acidosis,	to 951	Q1.81.01	276.2		E87.2			not relevant
- metabolic alkalosis,	to 951	Q1.81.02	276.3		E87.3			not relevant
- respiratory acidosis,	to 951	Q1.81.03	276.2		E87.2			not relevant
- respiratory alkalosis,	to 951	Q1.81.04	276.3		E87.3			not relevant
- hypokalaemia,	to 951	Q1.81.05	276.8		E87.6			not relevant
- hyperkalaemia,	to 951	Q1.81.06	276.7		E87.5			not relevant
- hyponatraemia,	to 951	Q1.81.07	276.1		E87.1			not relevant
- hypernatraemia,	to 951	Q1.81.08	276.0		E87.0			not relevant
- hypocalcaemia,	to 951	Q1.81.09	275.4		E83.5			not relevant
- hypercalcaemia,	to 951	Q1.81.10	275.4		E83.5			not relevant
- hypomagnesaemia,	to 951	Q1.81.11	275.2		E83.4			not relevant
- hypermagnesaemia,	to 951	Q1.81.12	275.2		E83.4			not relevant
- hypoglycaemia,	to 951	Q1.81.13	251.2		E16.2			not relevant
- hyperglycaemia,	to 951	Q1.81.14	790.6		R73.9			not relevant
- uraemia,	to 951	Q1.81.15	586		N19			not relevant
- organic acidaemia,	to 951	Q1.81.16	276.2		E87.2			not relevant
- drug induced derangement,	to 951	Q1.81.17	995.2		T88.7			not relevant
no entry	to 1	not relevant						

1936 @ Specific acidosis and blood gas derangement qualifiers

- metabolic acidosis,	to 951	Q1.81.01	276.2		E87.2			not relevant
- metabolic alkalosis,	to 951	Q1.81.02	276.3		E87.3			not relevant
- respiratory acidosis,	to 951	Q1.81.03	276.2		E87.2			not relevant
- respiratory alkalosis,	to 951	Q1.81.04	276.3		E87.3			not relevant
- hypoxia,	to 951	Q1.81.31						not relevant
- hyperoxia,	to 951	Q1.81.32						not relevant
- hypocapnia,	to 951	Q1.81.33						not relevant
- hypercapnia,	to 951	Q1.81.34						not relevant
- lactate high,	to 951	Q1.81.35						not relevant
- blood gas derangement (DESCRIBE),	to 951	Q1.81.39						not relevant
no entry	to 951	not relevant						

1945 Hypothermia

Hypothermia,	to 951	15.81.41	780.9		P68.0		15.80.00	General systemic complication after cardiac procedure,
Hypothermia: elective induced,	to 951	15.81.42					15.80.00	General systemic complication after cardiac procedure,
Hypothermia: inadvertent,	to 951	15.81.43	780.9		P68.0		15.80.00	General systemic complication after cardiac procedure,
Hypothermia: primary neurological,	to 951	15.81.44	780.9		P68.0		15.80.00	General systemic complication after cardiac procedure,
Hypothermia: following anaesthesia,	to 951	15.81.45	995.8		T88.5		15.80.00	General systemic complication after cardiac procedure,
Hypothermia: postprocedural,	to 951	15.81.46	995.8		T88.5		15.80.00	General systemic complication after cardiac procedure,
End of branch								

1950 Respiratory and thoracic complications after cardiac procedures

Respiratory complication after cardiac procedure,	to 1	15.80.20	997.3		J95.9		15.80.20	Respiratory complication after cardiac procedure,
Periprocedural respiratory depression,	to 1	15.81.30	518.5		J95.8		15.80.20	Respiratory complication after cardiac procedure,
Periprocedural respiratory depression due to sedation,	to 1	15.81.31	518.5		J95.8		15.80.20	Respiratory complication after cardiac procedure,
Periprocedural respiratory depression due to cessation requiring narcotic reversal,	to 1	15.81.32	518.5		J95.8		15.80.20	Respiratory complication after cardiac procedure,
Periprocedural respiratory depression requiring intubation,	to 1	15.81.33	518.5		J95.8		15.80.20	Respiratory complication after cardiac procedure,
Postprocedural pulmonary hypertension and pulmonary vascular disease	to 1951	not relevant						
Pleural disease and complications	to 1960	not relevant						
Complications involving tracheobronchial tree	to 1965	not relevant						
Complications involving thoracic nerves & brachial plexus	to 1995	not relevant						
Vocal chord & recurrent laryngeal nerve related complications	to 1967	not relevant						
Postprocedural blood gas derangement,	to 1936	15.80.04	997.9		T81.8		15.80.01	Postprocedural metabolic derangement,
Postprocedural requirement for mechanical respiratory support more than 7 days,	to 1	15.80.32	518.5		J95.3		15.80.32	Postprocedural requirement for mechanical respiratory support more than 7 days,
Postprocedural respiratory insufficiency requiring noninvasive respiratory support,	to 4006	15.80.48	518.5		J95.3		15.80.32	Postprocedural requirement for mechanical respiratory support more than 7 days,
Postprocedural respiratory insufficiency requiring mechanical respiratory support more than 7 days,	to 4006	15.80.45	518.5		J95.3		15.80.32	Postprocedural requirement for mechanical respiratory support more than 7 days,
Postprocedural requirement for reintubation,	to 1962	15.80.33	518.5		J95.1		15.80.33	Postprocedural requirement for reintubation,
Postprocedural respiratory insufficiency requiring reintubation,	to 1962	15.80.46	518.5		J95.1		15.80.33	Postprocedural requirement for reintubation,

Postprocedural respiratory distress,	to 1962	15.81.35	518.5	J95.1	15.80.33	Postprocedural requirement for reintubation,		
Postprocedural apnoea,	to 1962	15.81.36	518.5	J95.1	15.80.33	Postprocedural requirement for reintubation,		
Postprocedural respiratory arrest,	to 1962	15.81.34	518.5	J95.1	15.80.33	Postprocedural requirement for reintubation,		
Postprocedural respiratory arrest requiring reintubation,	to 1962	15.80.34	518.5	J95.1	15.80.33	Postprocedural requirement for reintubation,		
Postprocedural unplanned extubation,	to 1	15.80.35	518.5	J95.1	15.80.33	Postprocedural requirement for reintubation,		
Postprocedural lung collapse (atelectasis),	to 3300	15.80.31	518.0	E878.8	J98.1 Y83.8	Postprocedural lung collapse (atelectasis),		
Postprocedural pulmonary infection,	to 3300	15.80.21	997.3	J95.8	J22	15.80.21	Postprocedural pulmonary infection,	
Postprocedural ventilator associated pneumonia,	to 3300	15.80.44	997.3	J95.8	J22	15.80.21	Postprocedural pulmonary infection,	
Postprocedural pulmonary overcirculation (excessive pulmonary blood flow),	to 1	15.80.38	417.8	E878.8	Z88.8	Y83.8	15.90.01	Postprocedural complication,
Intraoperative injury to lung,	to 3300	15.80.40	997.3	J95.9	15.80.20	Respiratory complication after cardiac procedure,		
Intraoperative laceration injury to lung,	to 3300	15.80.41	997.3	J95.9	15.80.20	Respiratory complication after cardiac procedure,		
Intraoperative injury to chylous system,	to 1	15.80.42	E870.8	Y60.8	15.90.01	Postprocedural complication,		
Pulmonary oedema: postprocedural,	to 600	15.80.47	514	E878.8	J61	Y83.8	10.30.30	Pulmonary oedema,
Postprocedural bronchospasm,	to 1	15.80.23	786.0	997.3	J98.0	J95.8	15.80.20	Respiratory complication after cardiac procedure,
Postprocedural pulmonary thromboembolism,	to 3300	15.80.24	415.1	997.3	Z69.9	J95.8	10.13.51	Pulmonary embolism,
Postprocedural pulmonary haemorrhage,	to 3300	15.80.25	786.3	997.3	R04.8	J95.8	15.02.00	Postprocedural haemorrhage,
Postprocedural chronic pulmonary dysfunction,	to 1	15.80.26	518.5	J80	15.80.20	Respiratory complication after cardiac procedure,		
Postprocedural Acute Respiratory Distress Syndrome (ARDS),	to 4006	15.80.29	518.5	J80	15.80.29	Respiratory Acute Respiratory Distress Syndrome (ARDS),		
Critical illness respiratory muscle degeneration,	to 4006	15.80.30	728.2	997.3	M62.5	J95.8	15.80.20	Respiratory complication after cardiac procedure,

1951 Postprocedural pulmonary hypertension and pulmonary vascular disease

Postprocedural pulmonary hypertension,	to 685	15.80.36	416.8	E878.8	Z77.8	Y83.8	10.13.20	Secondary pulmonary hypertension,
Postprocedural pulmonary hypertension during removal of pulmonary arterial line,	to 685	15.80.37	416.8	E878.8	Z77.8	Y83.8	10.13.20	Secondary pulmonary hypertension,
Postprocedural pulmonary hypertensive crises,	to 685	15.80.22	416.8	E878.8	Z77.8	Y83.8	10.13.22	Postprocedural pulmonary hypertensive crises,
Postprocedural residual pulmonary hypertension,	to 685	15.80.27	416.8	E878.8	Z77.8	Y83.8	10.13.20	Secondary pulmonary hypertension,
Postprocedural acquired pulmonary vascular disease,	to 1	15.80.28	416.8	E878.8	Z77.8	10.13.06	Pulmonary vascular disease,	

1960 Pleural disease and complications

Postprocedural pleural effusion,	to 1961	15.80.50	511.9	E878.8	J90	Y83.8	15.80.50	Postprocedural pleural effusion,
Pleural effusion requiring drainage,	to 1961	15.80.61	511.9	J90	15.80.61	Pleural effusion requiring drainage,		
Postprocedural right pleural effusion,	to 1961	15.80.51	511.9	E878.8	J90	Y83.8	15.80.51	Postprocedural right pleural effusion,
Postprocedural left pleural effusion,	to 1961	15.80.52	511.9	E878.8	J90	Y83.8	15.80.52	Postprocedural left pleural effusion,
Severe intractable pleural effusion,	to 1961	15.80.63	511.9	E878.8	J90	Y83.8	15.80.50	Postprocedural pleural effusion,
Postprocedural pneumothorax,	to 1961	15.80.62	512	E878.8	J93.9	Y83.8	15.80.62	Postprocedural pneumothorax,
Postprocedural right pneumothorax,	to 1961	15.80.53	512	E878.8	J93.9	Y83.8	15.80.62	Postprocedural pneumothorax,
Postprocedural left pneumothorax,	to 1961	15.80.54	512	E878.8	J93.9	Y83.8	15.80.62	Postprocedural pneumothorax,
Postprocedural chylothorax,	to 1961	15.80.55	457.8	E878.8	J94.0	Y83.8	15.80.55	Postprocedural chylothorax,
Postprocedural haemothorax,	to 1961	15.80.56	998.1	E878.8	T81.0	Y83.8	15.80.56	Postprocedural haemothorax,
Postprocedural pleurisy,	to 1	15.80.57	511.0	E878.8	R09.1	Y83.8	15.80.21	Postprocedural pulmonary infection,
Empyema,	to 1961	16.01.11	510.9	J86	16.01.11	Empyema,		
Postprocedural acute empyema,	to 1961	15.80.58	510.9	E878.8	J86	Y83.8	16.01.11	Empyema,
Postprocedural chronic empyema,	to 1961	15.80.59	510.9	E878.8	J86	Y83.8	16.01.11	Empyema,
hadvertent clamping of chest drain,	to 1	15.80.60	15.90.01	Postprocedural complication,				

1961 @ Pleural effusion, pneumothorax and empyema qualifiers and outcomes

- tiny,	to 1	Q1.27.70	not relevant
- small,	to 1	Q1.27.71	not relevant
- moderate,	to 1	Q1.40.03	not relevant
- large,	to 1	Q1.27.63	not relevant
- very large,	to 1	Q1.27.73	not relevant
- with no haemodynamic effect,	to 1	Q1.90.11	not relevant
- expected (anticipated),	to 1	Q1.83.16	not relevant
- unexpected (not anticipated),	to 1	Q1.83.17	not relevant
- residual,	to 1	Q1.90.54	not relevant
- residual: intentional,	to 1	Q1.91.50	not relevant
- residual: inadvertent,	to 1	Q1.91.51	not relevant
- recurrent,	to 1	Q1.90.72	not relevant
- requiring drainage,	to 1	Q1.83.01	not relevant
- requiring drainage with chest tube,	to 1	Q1.83.13	not relevant
- requiring drainage with thoracostomy,	to 1	Q1.83.14	not relevant
- requiring drainage followed by reoperation,	to 1	Q1.83.06	not relevant
- requiring drainage during same admission,	to 1	Q1.83.07	not relevant
- requiring drainage followed by reoperation during same admission,	to 1	Q1.83.12	not relevant
- requiring reoperation,	to 1	Q1.83.10	not relevant
- requiring reoperation during same admission,	to 1	Q1.83.11	not relevant
- resolved with medical management (without invasive therapy),	to 1	Q1.83.05	not relevant
- resolved with supplemental oxygen therapy,	to 1	Q1.83.15	not relevant
- resolved,	to 1	Q1.90.55	not relevant
- resolved spontaneously,	to 1	Q1.90.91	not relevant
- characteristics unknown or unspecified,	to 1	Q1.90.83	not relevant
Causes of infection	to 627	not relevant	
Causes of malignancy	to 720	not relevant	
Specific thoracic and pulmonary regions involved - qualifiers	to 3300	not relevant	

1962 @ Requirement for reintubation qualifiers

- single reintubation,	to 1	Q1.77.40	not relevant
- reintubation x 2,	to 1	Q1.77.41	not relevant
- reintubation x 3,	to 1	Q1.77.42	not relevant
- reintubation x 4 or more,	to 1	Q1.77.43	not relevant
Outcomes following respiratory failure or insufficiency	to 4006	not relevant	
no entry	to 1	not relevant	

1965 Postprocedural complications involving tracheobronchial tree

Endotracheal intubation related complications	to 1966	not relevant						
Postprocedural complication involving tracheobronchial tree,	to 1	15.80.70	519.1	997.3	J98.0	Y83.8	15.80.70	Postprocedural complication involving tracheobronchial tree,
Postprocedural requirement for tracheostomy,	to 1	15.80.86	997.3	J95.3	15.80.86	Postprocedural tracheostomy,		
Intraoperative injury to airway,	to 3300	15.80.69	519.1	997.3	J98.0	Y83.8	15.80.70	Postprocedural complication involving tracheobronchial tree,
Postprocedural airway obstruction,	to 3300	15.81.02	519.1	997.3	J98.0	J95.8	15.80.70	Postprocedural complication involving tracheobronchial tree,
Postprocedural bronchopleural fistula,	to 1	15.80.71	510.0	997.3	J86.0	J95.8	15.80.70	Postprocedural complication involving tracheobronchial tree,
Postprocedural bronchial injury,	to 1	15.80.99	510.0	997.3	J86.0	J95.8	15.80.70	Postprocedural complication involving tracheobronchial tree,
Postprocedural dehiscence of bronchial anastomosis,	to 1	15.80.72	519	998.3	J98.0	T81.3	15.80.70	Postprocedural complication involving tracheobronchial tree,
Postprocedural stricture of bronchial anastomosis,	to 1	15.80.73	519.1	997.3	J98.0	J95.8	15.80.70	Postprocedural complication involving tracheobronchial tree,
Postprocedural tracheo-oesophageal fistula,	to 1	15.80.74	519.0	J95.0	15.80.70	Postprocedural complication involving tracheobronchial tree,		
Haemorrhage from tracheostomy site,	to 1	15.80.75	519.0	J95.0	15.80.70	Postprocedural complication involving tracheobronchial tree,		
Postprocedural tracheal anastomosis dehiscence,	to 1	15.80.85	519.1	998.3	J39.8	T81.3	15.80.70	Postprocedural complication involving tracheobronchial tree,
Postprocedural tracheal stenosis,	to 951	15.80.76	519.1	997.3	J39.8	J95.8	15.80.70	Postprocedural complication involving tracheobronchial tree,
Postprocedural tracheal oedema,	to 1	15.80.77	519.1	997.3	J39.8	J95.8	15.80.70	Postprocedural complication involving tracheobronchial tree,
Postprocedural tracheal infection,	to 1	15.80.68	519.1	997.3	J39.8	J95.8	15.80.70	Postprocedural complication involving tracheobronchial tree,
Postprocedural tracheomalacia,	to 1	15.80.78	519.1	997.3	J39.8	J95.8	14.03.49	Tracheobronchial malacia,
Post-tracheostomy tracheocutaneous fistula,	to 1	15.80.79	519.0	J95.0	15.80.70	Postprocedural complication involving tracheobronchial tree,		
Post-tracheostomy tracheal mucosal dissection,	to 1	15.80.80	519.0	J95.0	15.80.70	Postprocedural complication involving tracheobronchial tree,		
Post-tracheostomy granulation,	to 1	15.80.81	519.0	J95.0	15.80.70	Postprocedural complication involving tracheobronchial tree,		
hspissated sputum in tracheostomy,	to 1	15.80.82	519.0	J95.0	15.80.70	Postprocedural complication involving tracheobronchial tree,		
Postprocedural tracheobronchial ischaemia,	to 1	15.80.83	519.1	997.3	J39.8	J95.8	15.80.70	Postprocedural complication involving tracheobronchial tree,
Postprocedural subglottic stenosis,	to 951	15.80.84	519.1	997.3	J39.8	J95.8	15.80.70	Postprocedural complication involving tracheobronchial tree,
Postprocedural bronchial compression,	to 3300	15.80.87	519.1	997.3	J98.0	J95.8	15.80.87	Postprocedural bronchial compression,
Postprocedural tracheobronchial compression following cardiac repair,	to 3300	15.80.67	519.1	997.3	J98.0	J95.8	15.80.87	Postprocedural bronchial compression,
Postprocedural bronchomalacia,	to 3300	15.80.88	519.1	997.3	J98.0	J95.8	14.03.49	Tracheobronchial malacia,
Postprocedural plastic bronchitis,	to 3300	15.81.01	519.1	997.3	J98.0	J95.8	15.80.70	Postprocedural complication involving tracheobronchial tree,

1966 Endotracheal intubation related complications

Endotracheal tube dislodgment,	to 2812	15.81.10	E876.3	Y65.3	15.80.70	Postprocedural complication involving tracheobronchial tree,		
Endotracheal tube dislodgment: distal migration,	to 2812	15.81.11	E876.3	Y65.3	15.80.70	Postprocedural complication involving tracheobronchial tree,		
Endotracheal tube dislodgment: unplanned extubation,	to 2812	15.81.12	E876.3	Y65.3	15.80.70	Postprocedural complication involving tracheobronchial tree,		
Endotracheal tube size mismatch,	to 2812	15.81.13	E876.9	Y65.8	15.80.70	Postprocedural complication involving tracheobronchial tree,		
Endotracheal tube size mismatch: too large,	to 2812	15.81.14	E876.9	Y65.8	15.80.70	Postprocedural complication involving tracheobronchial tree,		
Endotracheal tube size mismatch: too small,	to 2812	15.81.15	E876.9	Y65.8	15.80.70	Postprocedural complication involving tracheobronchial tree,		
Intubation complication: bleeding,	to 2812	15.81.16	E876.8	Y60.9	15.80.70	Postprocedural complication involving tracheobronchial tree,		
Intubation complication: bleeding from endotracheal tube,	to 2812	15.81.28	E870.8	Y60.9	15.80.70	Postprocedural complication involving tracheobronchial tree,		
Intubation complication: epistaxis,	to 2812	15.81.18	784.7	E870.8	R04.0	Y60.9	15.80.70	Postprocedural complication involving tracheobronchial tree,
Intubation complication: oropharyngeal bleeding,	to 2812	15.81.19	E870.8	Y60.9	15.80.70	Postprocedural complication involving tracheobronchial tree,		
Intubation complication: endotracheal tube misplacement,	to 2812	15.81.20	E876.3	Y65.3	15.80.70	Postprocedural complication involving tracheobronchial tree,		
Intubation complication: deep endotracheal tube misplacement (including unplanned endobronchial intubation),	to 2812	15.81.21	E876.3	Y65.3	15.80.70	Postprocedural complication involving tracheobronchial tree,		
Intubation complication: oesophageal intubation,	to 2812	15.81.22	E876.3	Y65.3	15.80.70	Postprocedural complication involving tracheobronchial tree,		
Intubation complication: dental injury,	to 2812	15.81.23	E876.9	Y65.8	15.80.70	Postprocedural complication involving tracheobronchial tree,		
Intubation complication: injury to lip,	to 2812	15.81.24	E876.9	Y65.8	15.80.70	Postprocedural complication involving tracheobronchial tree,		
Intubation complication: unanticipated difficult intubation,	to 2812	15.81.25	E876.9	T88.4	15.80.70	Postprocedural complication involving tracheobronchial tree,		
Postprocedural unplanned extubation,	to 1	15.80.35	518.5	J95.1	15.80.33	Postprocedural requirement for reintubation,		
Intubation complication: post extubation stridor,	to 1	15.81.29	786.1	518.5	R06.1	J95.8	15.80.70	Postprocedural complication involving tracheobronchial tree,
Intubation failure,	to 2812	15.81.26	E876.4	T88.4	15.80.70	Postprocedural complication involving tracheobronchial tree,		
hadvertent extubation in intensive care unit,	to 2812	15.81.27	E876.4	Y65.4	15.80.70	Postprocedural complication involving tracheobronchial tree,		

1967 **Vocal chord & recurrent laryngeal nerve related complications**

Vocal cord dysfunction (possible recurrent laryngeal nerve injury),	to 951	15.81.70	951.8		G52.2	T81.2	15.80.93	Intraoperative recurrent laryngeal nerve injury (palsy),
Vocal cord dysfunction (possible recurrent laryngeal nerve injury): right-sided,	to 951	15.81.71	951.8		G52.2	T81.2	15.80.93	Intraoperative recurrent laryngeal nerve injury (palsy),
Vocal cord dysfunction (possible recurrent laryngeal nerve injury): left-sided,	to 951	15.81.72	951.8		G52.2	T81.2	15.80.93	Intraoperative recurrent laryngeal nerve injury (palsy),
Vocal cord dysfunction (possible recurrent laryngeal nerve injury): bilateral,	to 951	15.81.73	951.8		G52.2	T81.2	15.80.93	Intraoperative recurrent laryngeal nerve injury (palsy),
Intraoperative recurrent laryngeal nerve injury (palsy),	to 1	15.80.93	951.8		G52.2	T81.2	15.80.93	Intraoperative recurrent laryngeal nerve injury (palsy),
Intraoperative right recurrent laryngeal nerve injury (palsy),	to 1	15.81.80	951.8		G52.2	T81.2	15.80.93	Intraoperative recurrent laryngeal nerve injury (palsy),
Intraoperative left recurrent laryngeal nerve injury (palsy),	to 1	15.81.81	951.8		G52.2	T81.2	15.80.93	Intraoperative recurrent laryngeal nerve injury (palsy),
Intraoperative bilateral recurrent laryngeal nerve injury (palsy),	to 1	15.81.82	951.8		G52.2	T81.2	15.80.93	Intraoperative recurrent laryngeal nerve injury (palsy),
Postoperative laryngospasm,	to 1	15.81.83	478.7	518.5	J38.5	J95.8	15.80.93	Intraoperative recurrent laryngeal nerve injury (palsy),

End of branch

1970 **Renal complications: generic and after cardiac procedures**

Postoperative acute renal dysfunction,	to 1974	15.82.19	593.9	997.5	N99.0		15.82.00	Postoperative renal failure,
Renal failure,	to 1	15.82.10	586		N19		15.82.10	Renal failure,
Acute kidney injury,	to 1	15.82.11	584		N17		15.82.10	Renal failure,
Acute kidney injury not requiring dialysis,	to 1	15.82.12	584		N17		15.82.10	Renal failure,
Acute kidney injury requiring dialysis,	to 1974	15.82.13	584		N17		15.82.10	Renal failure,
Acute kidney injury requiring temporary dialysis,	to 1974	15.82.14	584		N17		15.82.10	Renal failure,
Acute kidney injury requiring permanent dialysis,	to 1	15.82.15	584		N17		15.82.10	Renal failure,
Chronic renal disease,	to 1	15.82.16	585		N18		15.82.10	Renal failure,
Chronic renal disease not requiring dialysis,	to 1	15.82.17	585		N18		15.82.10	Renal failure,
Chronic renal disease requiring dialysis,	to 1	15.82.18	585		N18		15.82.10	Renal failure,
Postoperative renal failure,	to 1974	15.82.00	997.5		N99.0		15.82.00	Postoperative renal failure,
Postoperative acute kidney injury,	to 1974	15.82.01	997.5		N99.0		15.82.00	Postoperative renal failure,
Renal failure requiring temporary dialysis,	to 1974	15.82.06	997.5		N99.0		15.82.06	Renal failure requiring temporary dialysis,
Renal failure requiring permanent dialysis,	to 1	15.82.07	997.5		N99.0		15.82.07	Renal failure requiring permanent dialysis,
Postoperative chronic kidney disease,	to 1	15.82.02	997.5		N99.0		15.82.00	Postoperative renal failure,
Contrast related renal dysfunction,	to 1974	15.82.08	586		N99.0		15.82.00	Postoperative renal failure,
Drug related renal dysfunction,	to 1974	15.82.03	586	995.2	T88.7	N19	15.82.00	Postoperative renal failure,
Postoperative urinary tract infection,	to 627	15.82.04	599.0	997.5	N39.0	Y83.8	15.90.01	Postoperative complication,
Obstruction of indwelling bladder catheter,	to 1	15.82.05	996.3		T83.0		15.90.01	Postoperative complication,
Renal complication after cardiovascular procedure,	to 1974	15.82.09	997.5		N99.8		15.90.01	Postoperative complication,

1974 @ **Renal failure qualifiers**

- transient uremia (azotaemia) not requiring dialysis,	to 1	Q1.83.31						not relevant
- transient uremia (azotaemia) not requiring dialysis & creatinine to greater or equal 176micromol/litre (2.0mg/dl),	to 1	Q1.83.32						not relevant
- transient oliguria not requiring dialysis,	to 1	Q1.83.33						not relevant
- not requiring dialysis,	to 1	Q1.83.34						not relevant
- requiring renal dialysis,	to 1	Q1.83.30						not relevant
- requiring temporary dialysis,	to 1	Q1.83.35						not relevant
- requiring temporary dialysis: haemodialysis,	to 1	Q1.83.36						not relevant
- requiring temporary dialysis: peritoneal dialysis,	to 1	Q1.83.37						not relevant
- requiring temporary dialysis: haemofiltration,	to 1	Q1.83.38						not relevant
- requiring permanent dialysis,	to 1	Q1.83.39						not relevant
no entry	to 1	not relevant						not relevant

End of branch

1980 **Gastrointestinal complications after cardiac procedures**

Gastrointestinal complication after cardiovascular procedure,	to 1	15.82.20	997.4		K91.9	Y83.8	15.90.01	Postoperative complication,
Gastrointestinal complication after cardiovascular procedure requiring laparotomy,	to 1	15.83.52	997.4		K91.9	Y83.8	15.90.01	Postoperative complication,
Postoperative oesophageal and gastric complications	to 1981	not relevant						Postoperative complication,
Diaphragmatic, hepatic & pancreatic complications	to 1985	not relevant						Postoperative complication,
Postoperative enteritis,	to 1	15.83.55	558.9		K52.0		15.90.01	Postoperative complication,
Postoperative gastrointestinal bleeding,	to 1984	15.82.21	578.9	997.4	K92.2	Y83.8	15.82.21	Postoperative gastrointestinal bleeding,
Postoperative gastrointestinal bleeding requiring transfusion,	to 1984	15.83.53	578.9	997.4	K92.2	Y83.8	15.82.21	Postoperative gastrointestinal bleeding,
Postoperative gastrointestinal perforation,	to 1	15.82.22	997.4		K91.8		15.90.01	Postoperative complication,
Postoperative ischaemic bowel,	to 1	15.83.56	557.9		K91.8		15.90.01	Postoperative complication,
Postoperative malnutrition,	to 1	15.82.24	263.9	997.4	E46	Y83.8	15.80.00	General systemic complication after cardiac procedure,
Postoperative abdominal distension,	to 1	15.82.26	787.3	997.4	R14	Y83.8	15.90.01	Postoperative complication,
Postoperative paralytic ileus,	to 1	15.82.27	560.1	997.4	K56.0	Y83.8	15.90.01	Postoperative complication,
Postoperative paralytic ileus requiring bowel rest & total parenteral nutrition (TPN),	to 1	15.83.57	560.1	997.4	K56.0	Y83.8	15.90.01	Postoperative complication,
Postoperative paralytic ileus resolving without total parenteral nutrition (TPN),	to 1	15.83.58	560.1	997.4	K56.0	Y83.8	15.90.01	Postoperative complication,
Postoperative intestinal obstruction,	to 1	15.82.28	997.4		K91.3		15.82.28	Postoperative intestinal obstruction,
Postoperative peritonitis,	to 1	15.82.29	567.9	997.4	K65.0	Y83.8	15.82.29	Postoperative peritonitis,
Postoperative necrotising enterocolitis,	to 1	15.82.30	557.0	997.4	K55.0	Y83.8	15.82.30	Postoperative necrotising enterocolitis,
Postoperative necrotising enterocolitis with intestinal perforation,	to 1	15.83.50	557.0	997.4	K55.0	Y83.8	15.82.30	Postoperative necrotising enterocolitis,
Postoperative necrotising enterocolitis with intestinal perforation: small intestine,	to 1	15.83.70	557.0	997.4	K55.0	Y83.8	15.82.30	Postoperative necrotising enterocolitis,
Postoperative necrotising enterocolitis with intestinal perforation: large intestine,	to 1	15.83.71	557.0	997.4	K55.0	Y83.8	15.82.30	Postoperative necrotising enterocolitis,
Postoperative necrotising enterocolitis without intestinal perforation,	to 1	15.83.51	557.0	997.4	K55.0	Y83.8	15.82.30	Postoperative necrotising enterocolitis,
Postoperative necrotising enterocolitis: managed conservatively,	to 1	15.82.34	557.0	997.4	K55.0	Y83.8	15.82.30	Postoperative necrotising enterocolitis,
Postoperative necrotising enterocolitis requiring surgery,	to 1	15.82.35	557.0	997.4	K55.0	Y83.8	15.82.30	Postoperative necrotising enterocolitis,
Postoperative ascites,	to 1988	15.82.36	789.5	997.4	R18	Y83.8	15.90.01	Postoperative complication,
Postoperative severe intractable ascites,	to 1988	15.82.40	789.5	997.4	R18	Y83.8	15.90.01	Postoperative complication,
Ascites: chylous,	to 1988	15.82.37	457.8		89.8		15.90.01	Postoperative complication,
Ascites: serous,	to 1988	15.83.73	457.8		89.8		15.90.01	Postoperative complication,
Postoperative diarrhoea,	to 951	15.82.31	558	997.4	K52.9	Y83.8	15.90.01	Postoperative complication,
Postoperative colitis,	to 951	15.83.59	558.9	997.4	K52.9	Y83.8	15.90.01	Postoperative complication,
Pseudomembranous colitis,	to 1	15.82.32	8.4		A04.7		15.82.32	Pseudomembranous colitis,
Postoperative protein losing enteropathy,	to 1	15.82.33	579.8	E878.8	K90.4	Y83.8	15.82.33	Postoperative protein losing enteropathy,
Postoperative caecal inflammation (typhlitis) including appendicitis,	to 1	15.83.72	541	997.4	K52.9	Y83.8	15.90.01	Postoperative complication,

1981 **Postoperative oesophageal and gastric complications**

Procedure related aspiration of gastric contents or foreign body,	to 2812	15.83.63	997.3		K91.8		15.90.14	Procedure related complication,
Postoperative gastritis,	to 1	15.83.54	535.0		K29.1		15.90.01	Postoperative complication,
Postoperative inability to sustain gastric feeding,	to 1	15.82.23	997.4		K91.8		15.82.23	Postoperative inability to sustain gastric feeding,
Postoperative feeding difficulties,	to 1	15.82.38	997.4		K91.8		15.82.38	Postoperative feeding difficulties,
Postoperative vomiting,	to 1	15.83.74	787.0		R11	K91.8	15.90.01	Postoperative complication,
Postoperative dysphagia,	to 1	15.82.25	787.2	997.4	R13	Y83.8	15.82.38	Postoperative feeding difficulties,
Postoperative dysphagia and/or inability to eat,	to 1	15.83.64	787.2	997.4	R13	Y83.8	15.82.38	Postoperative feeding difficulties,
Postoperative dysphagia and/or inability to eat requiring gastrostomy or enterostomy feeding,	to 1	15.83.60	787.2	997.4	R13	Y83.8	15.82.38	Postoperative feeding difficulties,
Postoperative dysphagia and/or inability to eat resolving without gastrostomy or enterostomy feeding,	to 1	15.83.61	787.2	997.4	R13	Y83.8	15.82.38	Postoperative feeding difficulties,
Postoperative dysphagia and/or inability to eat resulting in hospital discharge with tube feeding,	to 1	15.83.65	787.2	997.4	R13	Y83.8	15.82.38	Postoperative feeding difficulties,
Postoperative oesophagitis,	to 1	15.83.62	530.1		K20		16.20.10	Oesophageal disorder,
Postoperative gastro-oesophageal reflux disease (GORD),	to 1	15.83.66	530.1		K21.9		14.03.09	Gastro-oesophageal reflux disease (GORD),
Postoperative gastro-oesophageal reflux disease (GORD) managed medically,	to 1	15.83.67	530.1		K21.9		14.03.09	Gastro-oesophageal reflux disease (GORD),
Postoperative gastro-oesophageal reflux disease (GORD) managed surgically,	to 1	15.83.68	530.1		K21.9		14.03.09	Gastro-oesophageal reflux disease (GORD),
Intra-abdominal procedural injury,	to 1	15.83.69	863.8	997.4	S36.9	Y83.8	15.90.14	Procedure related complication,

1984 @ **Gastrointestinal bleeding qualifiers**

- haematemesis,	to 1	Q1.83.21						not relevant
- upper gastrointestinal bleeding,	to 1	Q1.83.22						not relevant
- lower gastrointestinal bleeding,	to 1	Q1.83.23						not relevant
- melena,	to 1	Q1.83.24						not relevant
- bright red blood per rectum,	to 1	Q1.83.25						not relevant
- requiring laparotomy,	to 1	Q1.83.26						not relevant
no entry	to 1	not relevant						not relevant

1985 **Diaphragmatic, hepatic & pancreatic complications**

Diaphragmatic palsy and phrenic nerve related complications	to 1986	not relevant						Diaphragm disease,
Postoperative diaphragmatic hernia,	to 1	15.82.41	553.3	E878.8	K44.9	Y83.8	16.15.09	Diaphragm disease,
Postoperative diaphragmatic rupture,	to 1	15.82.42	553.9	E878.8	K45.8	Y83.8	16.15.09	Diaphragm disease,
Postoperative hepatic impairment,	to 1	15.82.43	997.4		K72.0	Y83.8	15.82.43	Postoperative hepatic impairment,
Postoperative hyperbilirubinaemia,	to 1	15.82.44	997.4		K91.8		15.82.43	Postoperative hepatic impairment,
Postoperative hepatic necrosis,	to 1	15.82.45	997.4		K72.0	Y83.8	15.82.43	Postoperative hepatic impairment,
Postoperative liver failure,	to 1	15.82.48	997.4		K72.9	Y83.8	15.82.43	Postoperative hepatic impairment,
Postoperative cirrhosis,	to 1	15.82.49	571.5	997.4	K74.6	Y83.8	15.82.43	Postoperative hepatic impairment,
Postoperative hepatic haematoma following tranhepatic vascular access,	to 1	15.84.50	573.8	997.4	K76.8	Y83.8	15.82.43	Postoperative hepatic impairment,
Postoperative acute cholecystitis,	to 1	15.82.46	575.1	997.4	K81.0	Y83.8	15.90.01	Postoperative complication,
Postoperative acute pancreatitis,	to 1	15.82.47	577	997.4	K85	Y83.8	15.82.47	Postoperative acute pancreatitis,

1986 **Diaphragmatic palsy and phrenic nerve related complications**

Intraoperative phrenic nerve injury (paralysed diaphragm),	to 1	15.80.90	519.4	998.2	J98.6	T81.2	15.80.90	Intraoperative phrenic nerve injury (paralysed diaphragm),
Intraoperative right phrenic nerve injury (paralysed diaphragm),	to 1	15.80.91	519.4	998.2	J98.6	T81.2	15.80.90	Intraoperative phrenic nerve injury (paralysed diaphragm),
Intraoperative left phrenic nerve injury (paralysed diaphragm),	to 1	15.80.92	519.4	998.2	J98.6	T81.2	15.80.90	Intraoperative phrenic nerve injury (paralysed diaphragm),
Intraoperative bilateral phrenic nerve injury (paralysed diaphragm),	to 1	15.80.93	519.4	998.2	J98.6	T81.2	15.80.90	Intraoperative phrenic nerve injury (paralysed diaphragm),
Paralysed diaphragm (possible phrenic nerve injury),	to 1	15.84.01	519.4	998.2	J98.6	T81.2	15.80.90	Intraoperative phrenic nerve injury (paralysed diaphragm),
Paralysed diaphragm (possible phrenic nerve injury): not requiring plication,	to 1	15.84.02	519.4	998.2	J98.6	T81.2	15.80.90	Intraoperative phrenic nerve injury (paralysed diaphragm),
Paralysed diaphragm (possible phrenic nerve injury): requiring plication,	to 1	15.84.03	519.4	998.2	J98.6	T81.2	15.80.90	Intraoperative phrenic nerve injury (paralysed diaphragm),
Paralysed right hemidiaphragm (possible phrenic nerve injury),	to 1	15.84.04	519.4	99				

Paralysed left hemidiaphragm (possible phrenic nerve injury),	to 1	15.84.07	519.4	998.2	J98.6	T81.2	15.80.90	Intraoperative phrenic nerve injury (paralysed diaphragm),
Paralysed left hemidiaphragm (possible phrenic nerve injury): not requiring plication of diaphragm,	to 1	15.84.08	519.4	998.2	J98.6	T81.2	15.80.90	Intraoperative phrenic nerve injury (paralysed diaphragm),
Paralysed left hemidiaphragm (possible phrenic nerve injury): requiring plication of diaphragm,	to 1	15.84.09	519.4	998.2	J98.6	T81.2	15.80.90	Intraoperative phrenic nerve injury (paralysed diaphragm),
Paralysed bilateral hemidiaphragms (possible phrenic nerve injuries),	to 1	15.84.10	519.4	998.2	J98.6	T81.2	15.80.90	Intraoperative phrenic nerve injury (paralysed diaphragm),
Paralysed bilateral hemidiaphragms (possible phrenic nerve injuries): not requiring plication of diaphragm,	to 1	15.84.11	519.4	998.2	J98.6	T81.2	15.80.90	Intraoperative phrenic nerve injury (paralysed diaphragm),
Paralysed bilateral hemidiaphragms (possible phrenic nerve injuries): requiring plication of diaphragm,	to 1	15.84.12	519.4	998.2	J98.6	T81.2	15.80.90	Intraoperative phrenic nerve injury (paralysed diaphragm),

1988 @ Ascites characteristics, treatment and outcome options - qualifiers

- tiny,	to 1	Q1.27.70						not relevant
- small,	to 1	Q1.27.61						not relevant
- moderate,	to 1	Q1.40.03						not relevant
- large,	to 1	Q1.27.63						not relevant
- very large,	to 1	Q1.27.73						not relevant
- with no haemodynamic effect,	to 1	Q1.90.11						not relevant
- expected (anticipated),	to 1	Q1.83.16						not relevant
- unexpected (not anticipated),	to 1	Q1.83.17						not relevant
- requiring drainage,	to 1	Q1.83.01						not relevant
- requiring drainage with paracentesis,	to 1	Q1.83.18						not relevant
- requiring drainage with paracentesis & placement of peritoneal drain,	to 1	Q1.83.19						not relevant
- requiring drainage followed by reoperation,	to 1	Q1.83.06						not relevant
- requiring drainage during same admission,	to 1	Q1.83.07						not relevant
- requiring drainage followed by reoperation during same admission,	to 1	Q1.83.12						not relevant
- requiring reoperation,	to 1	Q1.83.10						not relevant
- requiring reoperation during same admission,	to 1	Q1.83.11						not relevant
- resolved with medical management (without invasive therapy),	to 1	Q1.83.05						not relevant
- resolved,	to 1	Q1.90.55						not relevant
- resolved spontaneously,	to 1	Q1.90.91						not relevant
- characteristics unknown or unspecified,	to 1	Q1.90.83						not relevant
no entry	to 1	no entry						

End of branch

1990 Neurological complications after cardiovascular procedures

Neurological complication after cardiac procedure,	to 1	15.82.50	997.0		G97.9		15.82.50	Neurological complication after cardiac procedure,
Postprocedural cerebral ischaemia - stroke - cerebral haemorrhage	to 1991	not relevant						
Postprocedural neurological injury and impairment	to 1992	not relevant						
Complications involving thoracic nerves & brachial plexus	to 1995	not relevant						
Postprocedural encephalopathies	to 1997	not relevant						
Postprocedural seizures,	to 1	15.82.93	345.9	997.0	G40.9	Y83.8	15.82.50	Neurological complication after cardiac procedure,
Postprocedural new onset seizures,	to 1	15.82.67	345.9	997.0	G40.9	Y83.8	15.82.67	Postprocedural new onset seizures,
Postprocedural generalised seizures,	to 1	15.82.51	345.1	997.0	G40.3	Y83.8	15.82.51	Postprocedural generalised seizures,
Postprocedural localised seizures,	to 1	15.82.52	345.5	997.0	G40.0	Y83.8	15.82.51	Postprocedural localised seizures,
Postprocedural seizures: clinically silent with electroencephalographic (EEG) confirmation,	to 1	15.83.90	345.9	997.0	G40.9	Y83.8	15.82.67	Postprocedural new onset seizures,
Postprocedural seizures: clinically suspected with electroencephalographic (EEG) confirmation,	to 1	15.83.91	345.9	997.0	G40.9	Y83.8	15.82.67	Postprocedural new onset seizures,
Postprocedural seizures: clinically suspected without electroencephalographic (EEG) confirmation,	to 1	15.83.92	345.9	997.0	G40.9	Y83.8	15.82.67	Postprocedural new onset seizures,
Seizures present pre and post procedure,	to 1	15.82.89	345.1		G40.3	Y83.8	15.82.51	Postprocedural generalised seizures,
Critical illness polyneuropathy,	to 1	15.83.96	356.9	997.0	G62.8	Y83.8	15.82.50	Neurological complication after cardiac procedure,
Postprocedural periventricular leukomalacia,	to 1	15.83.45	997.0		G97.9		15.82.50	Neurological complication after cardiac procedure,
Postprocedural vertebro-basilar syndrome (blind & choreoathetosis),	to 1	15.82.56	435		G45.0	Y83.8	15.82.50	Neurological complication after cardiac procedure,
Postprocedural choreoathetosis,	to 1	15.83.40	333.5	997.0	G25.5	Y83.8	15.82.50	Neurological complication after cardiac procedure,
Postprocedural new onset choreoathetosis,	to 1	15.83.41	333.5	997.0	R40.2	Y83.8	15.82.50	Neurological complication after cardiac procedure,
Postprocedural coma,	to 1	15.83.42	780.0	997.0	R40.2	Y83.8	15.82.50	Neurological complication after cardiac procedure,
Postprocedural coma for 24 hours or more,	to 1	15.83.43	780.0	997.0	R40.2	Y83.8	15.82.50	Neurological complication after cardiac procedure,
Postprocedural delirium,	to 1	15.83.44	780.0	997.0	F05.9	Y83.8	15.82.50	Neurological complication after cardiac procedure,
Postprocedural cerebral oedema,	to 1	15.82.59	348.5	997.0	G93.6	Y83.8	15.82.50	Neurological complication after cardiac procedure,
Postprocedural cerebral embolus,	to 1	15.83.95	434.1	997.0	I66.9	Y83.8	15.82.50	Neurological complication after cardiac procedure,
Postprocedural cerebral air embolus,	to 1	15.82.61	999.1		T81.7		15.82.50	Neurological complication after cardiac procedure,
Postprocedural cerebral abnormality on imaging,	to 1	15.82.81	997.0	793	G97.8	R90.8	15.82.81	Postprocedural cerebral abnormality on imaging,
Postprocedural new abnormality on head ultrasound,	to 1	15.83.93	997.0	793	G97.8	R90.8	15.82.81	Postprocedural cerebral abnormality on imaging,
Postprocedural change in mental status,	to 1	15.83.97	300.9	E878.8	F99	Y83.8	15.82.50	Neurological complication after cardiac procedure,
Postprocedural cerebral abscess,	to 1995	15.82.68	324	997.0	G06.0	Y83.8	15.82.66	Postprocedural cerebral abscess,
Postprocedural persistent vegetative state,	to 1	15.82.63	997		G97.8		15.82.57	Postprocedural permanent neurological impairment,
Postprocedural brain death,	to 1	15.82.64	997		G97.8		15.82.64	Postprocedural brain death,
Postprocedural meningitis,	to 1	15.82.65	322.9		G03.9		15.82.50	Neurological complication after cardiac procedure,

1991 Postprocedural cerebral ischaemia - stroke - cerebral haemorrhage

Postprocedural cerebral ischaemia (stroke or haemorrhage),	to 1	15.83.89	434.9	997	I66.9	Y83.8	15.82.50	Neurological complication after cardiac procedure,
Postprocedural cerebral thromboembolus (stroke),	to 1	15.82.60	434.9	997.0	I66.9	Y83.8	15.82.50	Neurological complication after cardiac procedure,
Postprocedural cerebral thromboembolus (stroke): brain stem,	to 1	15.82.90	434.9	997.0	I66.9	Y83.8	15.82.50	Neurological complication after cardiac procedure,
Postprocedural cerebral thromboembolus (stroke): cerebellar,	to 1	15.82.91	434.9	997.0	I66.9	Y83.8	15.82.50	Neurological complication after cardiac procedure,
Postprocedural cerebral thromboembolus (stroke): clinically silent,	to 1	15.83.85	434.9	997.0	I66.9	Y83.8	15.82.50	Neurological complication after cardiac procedure,
Postprocedural spinal cord ischaemia,	to 1	15.82.70	336.1	997.0	G95.1	Y83.8	15.82.57	Neurological complication after cardiac procedure,
Postprocedural ischaemic cerebral haemorrhage,	to 1	15.82.80	432.9	E878.8	I61.9	Y83.8	15.82.50	Neurological complication after cardiac procedure,
Postprocedural cerebrovascular haemorrhage,	to 1	15.82.86	432.9	E878.8	I61.9	Y83.8	15.82.50	Neurological complication after cardiac procedure,
Postprocedural cerebrovascular haemorrhage & infarct,	to 1	15.82.87	432.9	E878.8	I61.9	Y83.8	15.82.50	Neurological complication after cardiac procedure,
Postprocedural cerebrovascular infarct,	to 1	15.82.88	434.9	E878.8	I63.9	Y83.8	15.82.50	Neurological complication after cardiac procedure,
Postprocedural transient ischaemic attack (TIA),	to 1	15.82.85	435	E878.8	G45.9	Y83.8	15.82.50	Neurological complication after cardiac procedure,
Postprocedural reversible ischaemic neurologic deficit (RIND),	to 1	15.82.92	997.0	E878.8	G97.8		15.82.50	Neurological complication after cardiac procedure,
Postprocedural intraventricular haemorrhage (IVH),	to 1999	15.82.99	431.0	997.0	I61.5	Y83.8	15.82.50	Neurological complication after cardiac procedure,
Subarachnoid haemorrhage from ruptured aneurysm,	to 1	15.82.62	430		I60.7		14.03.00	Noncardiac abnormality associated with heart disease,

1992 Postprocedural neurological injury and impairment

Postprocedural neurological injury,	to 1	15.82.94	997.0		G97.8		15.82.50	Neurological complication after cardiac procedure,
Postprocedural temporary neurological impairment,	to 1	15.82.53	997.0		G97.8		15.82.53	Postprocedural temporary neurological impairment,
Postprocedural neurological impairment persisting at discharge,	to 1	15.82.68	997.0		G97.8		15.82.68	Postprocedural neurological impairment persisting at discharge,
Postprocedural permanent neurological impairment,	to 1	15.82.57	997.0		G97.8		15.82.57	Postprocedural permanent neurological impairment,
Neurological impairment present pre and post procedure,	to 1	15.82.82	348.9		G93.9		15.82.68	Postprocedural neurological impairment persisting at discharge,
Neurological impairment not present at discharge,	to 1	15.82.83					15.59.00	Medication related complication or error,
Drug related neurological impairment,	to 1	15.82.55	348.9	995.2	G93.8	T88.7	15.82.53	Postprocedural temporary neurological impairment,
Postprocedural temporary visual impairment,	to 1	15.82.54	369.9	997.0	H54.7	Y83.8	15.82.53	Postprocedural temporary neurological impairment,
Postprocedural neurological injury: new onset blindness,	to 1	15.82.95	369.0	997.0	H54.0	Y83.8	15.82.57	Postprocedural permanent neurological impairment,
Postprocedural neurological injury: new onset deafness,	to 1	15.82.96	389.9	997.0	H91.9	Y83.8	15.82.57	Postprocedural permanent neurological impairment,
Postprocedural neurological injury: developmental delay,	to 1	15.82.97	783.4	997.0	R62.9	Y83.8	15.82.57	Postprocedural permanent neurological impairment,
Postprocedural spinal paraplegia,	to 1	15.82.59	344.1	997.0	G82.2	Y83.8	15.82.57	Postprocedural permanent neurological impairment,
Postprocedural spinal cord injury,	to 1	15.83.80	952.9	997.0	T09.2	Y83.8	15.82.57	Postprocedural permanent neurological impairment,
Postprocedural paralysis,	to 1	15.83.81	344.9	997.0	G83.9	Y83.8	15.82.57	Postprocedural permanent neurological impairment,
Postprocedural paralysis: hemiplegia,	to 1	15.83.82	342.9	997.0	G81.9	Y83.8	15.82.57	Postprocedural permanent neurological impairment,
Postprocedural paralysis: quadriplegia,	to 1	15.83.83	344.0	997.0	G82.5	Y83.8	15.82.57	Postprocedural permanent neurological impairment,
Postprocedural paresis (partial paralysis),	to 1	15.83.86	344.9	997.0	G83.9	Y83.8	15.82.57	Postprocedural permanent neurological impairment,
Postprocedural paresis (partial paralysis): hemiplegia,	to 1	15.83.87	342.9	997.0	G81.9	Y83.8	15.82.57	Postprocedural permanent neurological impairment,
Postprocedural paresis (partial paralysis): quadriplegia,	to 1	15.83.88	344.0	997.0	G82.5	Y83.8	15.82.57	Postprocedural permanent neurological impairment,

1995 Complications involving thoracic nerves & brachial plexus

Vocal chord & recurrent laryngeal nerve related complications	to 1967	not relevant						
Diaphragmatic palsy and phrenic nerve related complications	to 1986	not relevant						
Postprocedural Horner's syndrome,	to 1	15.80.94	337.9	998.2	G90.2	T81.2	15.80.94	Postprocedural Horner's syndrome,
Postprocedural brachial plexus injury,	to 1	15.80.95	353.0	998.2	G54.0	T81.2	15.82.50	Neurological complication after cardiac procedure,
Postprocedural peripheral nerve injury,	to 1	15.80.96	998.2		T81.2		15.82.50	Neurological complication after cardiac procedure,
Postprocedural peripheral nerve palsy,	to 1	15.83.84	998.2		T81.2		15.82.50	Neurological complication after cardiac procedure,
Postprocedural upper sympathetic nerve tract injury,	to 1	15.80.97	998.2		T81.2		15.82.50	Neurological complication after cardiac procedure,

1997 Postprocedural encephalopathies

Postprocedural encephalopathy,	to 1	15.82.71	348.3		G93.4		14.03.72	Anoxic-ischaemic encephalopathy,
Anoxic-ischaemic encephalopathy,	to 1	15.82.84	348.1		G93.1		14.03.72	Anoxic-ischaemic encephalopathy,
Postprocedural anoxic-ischaemic encephalopathy,	to 1	15.82.72	997.0		G97.8		14.03.72	Anoxic-ischaemic encephalopathy,
Postprocedural anoxic-ischaemic encephalopathy: confirmed with imaging,	to 1	15.82.98	997.0		G97.8		14.03.72	Anoxic-ischaemic encephalopathy,
Postprocedural uraemic encephalopathy,	to 1	15.82.73	588		N19		15.82.50	Neurological complication after cardiac procedure,
Postprocedural hepatic encephalopathy,	to 1	15.82.74	572.2		K72.9		15.82.50	Neurological complication after cardiac procedure,
Postprocedural hypoglycaemic encephalopathy,	to 1	15.82.75	251.2		E16.1	G93.4	15.82.50	Neurological complication after cardiac procedure,
Postprocedural hypertensive encephalopathy,	to 1	15.82.76	437.2		I67.4		15.82.50	Neurological complication after cardiac procedure,
Postprocedural drug induced encephalopathy,	to 1	15.82.77	348.3	995.2	G93.8	T88.7	15.82.50	Neurological complication after cardiac procedure,
Postprocedural encephalitis,	to 1	15.82.78	323.9		G04.9		15.82.50	Neurological complication after cardiac procedure,

1999 @ Intraventricular haemorrhage qualifiers

- grade 1,	to 1	Q1.83.71						not relevant
- grade 2,	to 1	Q1.83.72						not relevant
- grade 3,	to 1	Q1.83.73						not relevant
- grade 4,	to 1	Q1.83.74						not relevant
- characteristics unknown or unspecified,	to 5	Q1.90.83						not relevant
no entry	to 5	no entry						

2010 Postprocedural pericardial complications & sequelae

Postprocedural pericardial complication,	to 1	15.83.19	423.8	E878.8	I31.8	Y83.8	10.08.29	Pericardial abnormality, acquired,
Postprocedural pericardial effusions and tamponade	to 2011	not relevant						
Postprocedural pericarditis,	to 1	15.83.07	420.9	E878.8	I30.9	Y83.8	10.08.00	Pericarditis,
Postprocedural infectious pericarditis,	to 625	15.83.08	420.9	E878.8	I30.1	Y83.8	10.08.01	Infectious pericarditis,
Postprocedural constrictive pericarditis,	to 1	15.83.09	423.2	E878.8	I31.1	Y83.8	10.08.09	Constrictive pericarditis,
Post-pericardial surgery cardiac herniation,	to 2810	15.83.18		E878.8		Y83.8	15.90.01	Postprocedural complication,
Post-pericardial surgery cardiac strangulation,	to 1	15.83.20		E878.8		Y83.8	15.90.01	Postprocedural complication,

2011 Postprocedural pericardial effusions and tamponade

Postpericardiectomy syndrome,	to 708	10.08.11	429.4					Postpericardiectomy syndrome,
Postprocedural pericardial effusion,	to 708	15.83.10	423.9	E878.8	I31.3	Y83.8	10.08.11	Postpericardiectomy syndrome,
Early postoperative pericardial effusion (less than or equal to 30 days),	to 708	15.83.01	423.9	E878.8	I31.3	Y83.8	10.08.11	Postpericardiectomy syndrome,
Late postoperative pericardial effusion (more than 30 days),	to 708	15.83.02	423.9	E878.8	I31.3	Y83.8	10.08.11	Postpericardiectomy syndrome,
Pericardial effusion requiring drainage,	to 708	15.83.00	423.9					Pericardial effusion requiring drainage,
Postprocedural haemopericardium,	to 708	15.83.03	423	E878.8	I31.2	Y83.8	10.08.31	Pericardial effusion,
Early postprocedural haemopericardium (less than or equal to 30 days),	to 708	15.83.11	423	E878.8	I31.2	Y83.8	10.08.31	Pericardial effusion,
Late postprocedural haemopericardium (more than 30 days),	to 708	15.83.12	423	E878.8	I31.2	Y83.8	10.08.31	Pericardial effusion,
Postprocedural (thoracic) chylopericardium,	to 708	15.83.04	457.8	E878.8	I31.3	Y83.8	10.08.15	Chylopericardium,
Postcardiotomy chylopericardium,	to 708	15.83.13	457.8	E878.8	I31.3	Y83.8	10.08.15	Chylopericardium,
Cardiac tamponade,	to 708	10.08.13	423.9					Cardiac tamponade,
Postprocedural cardiac tamponade,	to 708	15.83.14	423.9	E878.8	I31.9	Y83.8	10.08.13	Cardiac tamponade,
Early postprocedural cardiac tamponade,	to 708	15.83.05	423.9	E878.8	I31.9	Y83.8	10.08.13	Cardiac tamponade,
Late postprocedural cardiac tamponade,	to 708	15.83.06	423.9	E878.8	I31.9	Y83.8	10.08.13	Cardiac tamponade,
Postoperative cardiac tamponade,	to 708	15.83.15	423.9	E878.8	I31.9	Y83.8	10.08.13	Cardiac tamponade,
Early postoperative cardiac tamponade,	to 708	15.83.16	423.9	E878.8	I31.9	Y83.8	10.08.13	Cardiac tamponade,
Late postoperative cardiac tamponade,	to 708	15.83.17	423.9	E878.8	I31.9	Y83.8	10.08.13	Cardiac tamponade,
Details of preceding procedure causing pericardial effusion - qualifiers	to 2850	not relevant						not relevant

End of branch

2020 Postprocedural great-major vein complications & sequelae

Postprocedural great-major & pulmonary vein bleeding complications	to 1912	not relevant						
Postprocedural superior caval vein (SVC) complications	to 2021	not relevant						
Postprocedural inferior caval vein (IVC) complications	to 2022	not relevant						
Other & unspecified superior or inferior caval vein (SVC-IVC) complication	to 2028	not relevant						
Postprocedural pulmonary venous complications	to 2027	not relevant						
Postprocedural coronary sinus complications	to 2027	not relevant						
Infection-thrombosis-laceration-perforation-rupture of caval and pulmonary veins	to 2028	not relevant						
Postprocedural major vein complication,	to 2910	15.04.34	459.9	E878.8	I87.9	Y83.8	15.04.34	Postprocedural major vein complication,
Postprocedural venous complication,	to 2910	15.04.42	459.9	E878.8	I87.9	Y83.8	15.04.34	Postprocedural major vein complication,
Postprocedural systemic venous thrombosis,	to 1	15.04.41	459.9	E878.8	I87.9	Y83.8	15.04.34	Postprocedural major vein complication,
Postprocedural systemic vein obstruction,	to 3220	15.04.39	459.2	E878.8	I87.9	Y83.8	15.04.34	Postprocedural major vein complication,
Postprocedural iliac vein complication,	to 2910	15.04.10	459.2	E878.8	I87.9	Y83.8	15.04.34	Postprocedural major vein complication,
Postprocedural femoral vein complication,	to 2910	15.04.15	459.2	E878.8	I87.9	Y83.8	15.04.34	Postprocedural femoral vein complication,
Postprocedural jugular vein complication,	to 2910	15.04.20	459.2	E878.8	I87.9	Y83.8	15.04.34	Postprocedural major vein complication,
Postprocedural subclavian vein complication,	to 2910	15.04.25	459.2	E878.8	I87.9	Y83.8	15.04.34	Postprocedural major vein complication,
Postprocedural right subclavian vein complication,	to 2910	15.04.36	459.2	E878.8	I87.9	Y83.8	15.04.34	Postprocedural major vein complication,
Postprocedural left subclavian vein complication,	to 2910	15.04.37	459.2	E878.8	I87.9	Y83.8	15.04.34	Postprocedural major vein complication,
Postprocedural innominate (brachiocephalic) vein complication,	to 2910	15.04.38	459.2	E878.8	I87.9	Y83.8	15.04.34	Postprocedural major vein complication,
Postprocedural axillary vein complication,	to 2910	15.04.30	459.2	E878.8	I87.9	Y83.8	15.04.34	Postprocedural major vein complication,
Postprocedural peripheral vein complication,	to 2910	15.04.35	459.2	E878.8	I87.9	Y83.8	15.04.34	Postprocedural major vein complication,
Postprocedural systemic venous hypertension,	to 1	15.04.51	459.2	E878.8	I87.9	Y83.8	15.04.34	Postprocedural major vein complication,
Postprocedural deep vein thrombosis,	to 1	15.04.52	451.1	E878.8	I80.2	Y83.8	15.04.34	Postprocedural major vein complication,
Periprocedural vascular dissection,	to 977	15.88.21	E876.9			Y65.8	15.88.00	Vascular line (access) related complication,
Postprocedural vascular aneurysm formation,	to 976	15.88.22	E876.9			Y65.8	15.88.00	Vascular line (access) related complication,
Ligation of wrong vessel or structure,	to 3200	15.04.40	E876.8			Y83.8	15.90.14	Procedure related complication,

2021 Postprocedural superior caval vein (SVC) complications

Postprocedural superior caval vein (SVC) complication,	to 2910	15.04.01	459.9	E878.8	I87.9	Y83.8	15.04.01	Postprocedural superior caval vein (SVC) complication,
Postprocedural superior caval vein (SVC) stenosis,	to 960	15.04.02	459.2	E878.8	I87.1	Y83.8	15.04.01	Postprocedural superior caval vein (SVC) complication,
Postprocedural superior caval vein (SVC) obstruction,	to 960	15.04.03	459.2	E878.8	I87.1	Y83.8	15.04.01	Postprocedural superior caval vein (SVC) complication,
Implanted superior caval vein (SVC) valvar complication,	to 2065	15.04.04	996.7			T82.8	15.04.01	Postprocedural superior caval vein (SVC) complication,
Superior caval vein (SVC) syndrome,	to 2813	10.31.04	459.2			I87.1	15.04.01	Postprocedural superior caval vein (SVC) complication,

2022 Postprocedural inferior caval vein (IVC) complications

Postprocedural inferior caval vein (IVC) complication,	to 2910	15.04.05	459.9	E878.8	I87.9	Y83.8	15.04.05	Postprocedural inferior caval vein (IVC) complication,
Postprocedural inferior caval vein (IVC) stenosis,	to 960	15.04.06	459.2	E878.8	I87.1	Y83.8	15.04.05	Postprocedural inferior caval vein (IVC) complication,
Postprocedural inferior caval vein (IVC) obstruction,	to 960	15.04.07	459.2	E878.8	I87.1	Y83.8	15.04.05	Postprocedural inferior caval vein (IVC) complication,
Implanted inferior caval vein (IVC) valvar complication,	to 2065	15.04.08	996.7			T82.8	15.04.05	Postprocedural inferior caval vein (IVC) complication,

2025 Postprocedural pulmonary venous complications

Postprocedural pulmonary vein complication,	to 2910	15.05.01	459.9	E878.8	I28.9	Y83.8	15.05.01	Postprocedural pulmonary vein complication,
Postprocedural pulmonary venous stenosis,	to 94	15.05.02	459.2	E878.8	I28.8	Y83.8	04.08.91	Pulmonary vein stenosis,
Residual pulmonary venous stenosis following attempted relief of stenosis,	to 94	15.05.27	459.2	E878.8	I28.8	Y83.8	04.08.91	Pulmonary vein stenosis,
Pulmonary venous obstruction,	to 94	15.05.03	459.2	E878.8	I28.8	Y83.8	15.05.03	Pulmonary vein obstruction,
Postprocedural pulmonary venous obstruction,	to 94	15.05.26	459.2	E878.8	I28.8	Y83.8	15.05.03	Pulmonary vein obstruction,
Pulmonary venous obstruction due to extrinsic compression by giant right atrium,	to 94	15.05.05	459.2	E878.8	I28.8	Y83.8	15.05.03	Pulmonary vein obstruction,
Adherent pulmonary vein occlusion,	to 94	15.05.25	459.2	E878.8	I28.8	Y83.8	15.05.03	Pulmonary vein obstruction,
Postprocedural pulmonary venous desaturation,	to 94	15.05.28	459.2	E878.8	I28.8	Y83.8	15.05.01	Postprocedural pulmonary vein complication,
Postprocedural pulmonary venous hypertension,	to 1	15.05.21	416.8	E878.8	I27.8	Y83.8	15.05.01	Postprocedural pulmonary vein complication,
Residual pulmonary hypertension after pulmonary vein procedure,	to 685	15.05.22	416.8	E878.8	I27.8	Y83.8	15.05.01	Postprocedural pulmonary vein complication,
Ineffective repair of anomalous pulmonary venous connection,	to 1	15.05.23	429.4			I87.8	15.05.01	Postprocedural pulmonary vein complication,
Anastomotic narrowing after anomalous pulmonary venous connections repair,	to 2800	15.05.04	459.9			I28.8	15.05.03	Pulmonary vein obstruction,
Residual anomalous pulmonary venous connection after attempted repair,	to 1	15.05.24	429.4			I87.8	15.05.01	Postprocedural pulmonary vein complication,
Residual pulmonary vein thrombosis following relief of stenosis,	to 94	15.05.29	459.2	E878.8	I28.8	Y83.8	15.05.01	Postprocedural pulmonary vein complication,
Infection-thrombosis-laceration-perforation-rupture of pulmonary veins	to 2028	not relevant						

2027 Postprocedural coronary sinus complications

Postprocedural coronary sinus complication,	to 2910	15.05.41	459.8	E878.8	I87.8	Y83.8	04.04.00	Coronary sinus abnormality,
Postprocedural drainage of coronary sinus to pulmonary venous atrium,	to 1	15.05.42	459.8	E878.8	I87.8	Y83.8	04.04.00	Coronary sinus abnormality,
Postprocedural drainage of coronary sinus to systemic venous atrium,	to 600	15.05.44	459.8	E878.8	I87.8	Y83.8	04.04.00	Coronary sinus abnormality,
Postprocedural coronary sinus hypertension,	to 1	15.05.43	459.8	E878.8	I87.8	Y83.8	04.04.00	Coronary sinus abnormality,
Adherent coronary sinus occlusion,	to 1	15.05.45	459.8	E878.8	I87.8	Y83.8	04.04.00	Coronary sinus abnormality,

2028 Unspecified/other postprocedural complications of SVC-IVC-pulmonary vein

Postprocedural superior caval vein (SVC) complication,	to 2910	15.04.01	459.9	E878.8	I87.9	Y83.8	15.04.01	Postprocedural superior caval vein (SVC) complication,
Postprocedural inferior caval vein (IVC) complication,	to 2910	15.04.05	459.9	E878.8	I87.9	Y83.8	15.04.05	Postprocedural inferior caval vein (IVC) complication,
Postprocedural pulmonary vein complication,	to 2910	15.05.01	459.9	E878.8	I28.9	Y83.8	15.05.01	Postprocedural pulmonary vein complication,

End of branch

2030 Postprocedural atrial complications & sequelae

Postprocedural atrial bleeding complications	to 1908	not relevant						
Postprocedural atrial septum complications	to 2035	not relevant						
Postprocedural obstructed systemic venous pathway,	to 2037	15.10.01	996.7			T82.8	15.04.34	Postprocedural major vein complication,
Postprocedural obstructed pulmonary venous pathway,	to 2037	15.10.02	996.7			T82.8	15.05.01	Postprocedural pulmonary vein complication,
Postprocedural right atrial complication,	to 2910	15.10.11	429.4			I87.8	15.10.11	Postprocedural right atrial complication,
Postprocedural thrombus in physiological right atrium,	to 600	15.10.14	410			I51.3	15.10.10	Right atrial abnormality, acquired,
Postprocedural obstruction of right atrial tunnel (TCPC),	to 960	15.10.12	996.7			T82.8	15.10.13	Obstruction of right atrial conduit (TCPC),
Obstruction of right atrial conduit (TCPC),	to 960	15.10.13	996.7			T82.8	15.10.13	Obstruction of right atrial conduit (TCPC),
Obstruction at right atrial to pulmonary arterial anastomosis,	to 960	15.10.26	996.7			T82.8	15.10.13	Obstruction of right atrial conduit (TCPC),
Postprocedural left atrial complication,	to 2910	15.10.21	429.4			I87.8	15.10.21	Postprocedural left atrial complication,
Postprocedural thrombus in physiological left atrium,	to 600	15.10.15	410			I51.3	15.10.10	Right atrial abnormality, acquired,
Ineffective repair of divided left atrium (cor triatriatum),	to 1	15.10.25	429.4	E878.8	I87.8	Y83.8	15.10.21	Postprocedural left atrial complication,

2035 Postprocedural atrial septum complications & sequelae

Postprocedural atrial septum complication,	to 1	15.10.61	997.1			I87.8	15.10.61	Postprocedural atrial septum complication,
Adherent creation of interatrial communication (ASD) during procedure,	to 1	15.10.62	429.8	E878.8	I51.0	Y83.8	15.10.61	Postprocedural atrial septum complication,
Residual interatrial communication (ASD),	to 2810	15.10.63	745.5	E878.8	Q21.1	Y83.8	15.10.63	Residual interatrial communication (ASD),
Residual right to left shunt at atrial level following Fontan-type procedure,	to 1685	15.10.77	745.5	E878.8	Q21.1	Y83.8	15.10.63	Residual interatrial communication (ASD),
Residual or recurrent interatrial communication (ASD),	to 2810	15.10.72	745.5	E878.8	Q21.1	Y83.8	15.10.63	Residual interatrial communication (ASD),
Residual or recurrent interatrial baffle leak,	to 2810	15.10.73	996.7			T82.8	Y83.8	15.10.63
Residual or recurrent interatrial baffle stenosis,	to 2800	15.10.74	996.7			T82.8	Y83.8	15.10.63
Interatrial baffle obstruction,	to 2037	15.10.75	996.7			T82.8	15.10.61	Postprocedural atrial septum complication,
Interatrial baffle stenosis,	to 2037	15.10.76	996.7			T82.8	15.10.61	Postprocedural atrial septum complication,
Dehiscence of interatrial communication (ASD) patch,	to							

Aneurysm of patch after interatrial communication (ASD) repair,	to 1	15.10.71	429.8	E878.8	I51.0	Y83.8	15.10.61	Postprocedural atrial septum complication,
Residual interatrial communication (ASD) restriction after attempted enlargement,	to 1	15.10.70	429.4	E878.8	I87.8	Y83.8	15.10.61	Postprocedural atrial septum complication,
ineffective balloon atrial septostomy,	to 1	15.10.66	429.4	E878.8	I87.8	Y83.8	15.10.66	ineffective balloon atrial septostomy,
ineffective atrial septectomy,	to 1	15.10.67	429.4	E878.8	I87.8	Y83.8	15.10.61	Postprocedural atrial septum complication,
Failed attempt to implant coil-device during transcatheter intervention,	to 2880	15.50.40	996.7	E874.5	T82.8		15.50.40	Failed attempt to implant coil-device during transcatheter intervention,
Failed attempt to implant atrial septal defect (ASD) closure device during transcatheter intervention,	to 2880	15.10.68	996.7	E874.5	T82.8		15.50.40	Failed attempt to implant coil-device during transcatheter intervention,
Spontaneous closure of fenestration in atrial septum-tunnel,	to 600	10.17.43	V13.6		T87.7		15.10.61	Postprocedural atrial septum complication,
Residual pulmonary hypertension after relief of left to right shunt,	to 685	15.22.31	416.8	E878.8	I27.8	Y83.8	15.22.31	Residual pulmonary hypertension after relief of left to right shunt,
2037 @ Postprocedural atrial pathway complications: site qualifiers								
- atrial baffle,	to 960	Q1.56.30						not relevant
- Mustard atrial baffle,	to 960	Q1.56.12						not relevant
- Senning atrial baffle,	to 960	Q1.56.13						not relevant
- at superior caval vein junction,	to 960	Q1.56.31						not relevant
- at inferior caval vein junction,	to 960	Q1.56.32						not relevant
- at pulmonary vein junction,	to 960	Q1.56.33						not relevant
- site unspecified,	to 960	Q1.31.59						not relevant
no entry	to 960							not relevant
_____ End of branch _____								
2040 Postprocedural atrioventricular valvar & atrioventricular septal defect complications & sequelae								
Postprocedural tricuspid valvar complications & sequelae	to 2041							not relevant
Postprocedural mitral valvar complications & sequelae	to 2045							not relevant
Postprocedural atrioventricular septal defect complications & sequelae	to 2050							not relevant
atrioventricular valvar complications & sequelae in atrioventricular septal defect & double inlet ventricle	to 2052							not relevant
Residual or recurrent single atrioventricular valvar stenosis,	to 2800	15.11.20	424.9		I88		10.32.00	Heart valvar abnormally: acquired,
Residual or recurrent single atrioventricular valvar regurgitation,	to 2800	15.11.21	424.9		I88		10.32.00	Heart valvar abnormally: acquired,
Prosthetic valve failure,	to 2135	10.33.00	996.7		T82.0		10.33.00	Prosthetic valve failure,
Mechanical haemolysis due to prosthetic valve,	to 1	15.02.13	283.1	996.7	D59.4	T82.8	15.02.07	Postprocedural haemolysis,
Cardiac valve dysfunction requiring reoperation,	to 1	15.11.22	424.9		I88		10.32.00	Heart valvar abnormally: acquired,
Cardiac valve dysfunction requiring reoperation during same admission,	to 1	15.11.23	424.9		I88		10.32.00	Heart valvar abnormally: acquired,
2041 Postprocedural tricuspid valvar complications & sequelae								
Postprocedural tricuspid valvar complication,	to 1	15.11.00	424.2	E878.8	I86.9	Y83.8	15.11.00	Postprocedural tricuspid valvar complication,
Residual tricuspid stenosis,	to 2800	15.11.01	746.1	E878.8	Q22.4	Y83.8	06.01.92	Tricuspid stenosis,
Residual or recurrent tricuspid (or pulmonary atrioventricular) valvar stenosis,	to 2800	15.11.13	746.1	E878.8	Q22.4	Y83.8	06.01.92	Tricuspid stenosis,
Postprocedural tricuspid stenosis,	to 2800	15.11.02	424.2	E878.8	I86.0	Y83.8	06.01.92	Tricuspid stenosis,
Residual tricuspid regurgitation,	to 2800	15.11.03	746.8	E878.8	Q22.8	Y83.8	15.11.03	Residual tricuspid regurgitation,
Residual or recurrent tricuspid valvar regurgitation,	to 2800	15.11.14	746.8	E878.8	Q22.8	Y83.8	15.11.03	Residual tricuspid regurgitation,
Postprocedural tricuspid regurgitation,	to 2800	15.11.04	424.2	E878.8	I86.1	Y83.8	06.01.91	Tricuspid regurgitation,
Procedure related damage to tricuspid valve,	to 2800	15.11.16	424.2	E878.8	I86.1	Y83.8	15.11.00	Postprocedural tricuspid valvar complication,
Tricuspid regurgitation due to pacemaker lead,	to 2800	15.11.10	424.2	E878.8	I86.1	Y83.8	15.11.00	Postprocedural tricuspid valvar complication,
Ineffective tricuspid valve procedure,	to 1	15.11.05	424.2	E878.8	I86.9	Y83.8	15.11.00	Postprocedural tricuspid valvar complication,
Infective endocarditis of tricuspid valve,	to 615	10.06.08	421.9		I33.0		10.06.01	Infective endocarditis,
Tricuspid valvar abscess,	to 627	10.06.21	429.8		I51.8		10.06.20	Heart abscess,
Tricuspid valvar thrombosis,	to 1	10.32.07	424.2		I86.8		10.32.01	Tricuspid valvar abnormally: acquired,
inadvertent tricuspid valvar rupture,	to 1	15.11.06	424.2	E878.8	I86.8	Y83.8	15.11.00	Postprocedural tricuspid valvar complication,
inadvertent rupture of tricuspid valvar chords,	to 1	15.11.07	429.5	E878.8	I51.1	Y83.8	15.11.00	Postprocedural tricuspid valvar complication,
Tricuspid valvar chord entrapment by transcatheter device,	to 1	15.11.12	429.5	E878.8	I51.1	Y83.8	15.11.00	Postprocedural tricuspid valvar complication,
Postprocedural tricuspid leaflet tear,	to 163	15.11.11	424.2	E878.8	I86.1	Y83.8	15.11.00	Postprocedural tricuspid valvar complication,
Tricuspid valve tear during heart biopsy procedure,	to 163	15.11.15	424.2	E878.8	I86.1	Y83.8	15.11.00	Postprocedural tricuspid valvar complication,
Tricuspid valvar prosthesis complication,	to 2065	15.11.08	996		T82.0		15.11.08	Tricuspid valvar prosthesis complication,
2045 Postprocedural mitral valvar complications & sequelae								
Postprocedural mitral valvar complication,	to 1	15.12.00	394.9	E878.8	I84.9	Y83.8	15.12.00	Postprocedural mitral valvar complication,
Residual mitral stenosis,	to 2800	15.12.01	746.5	E878.8	Q23.2	Y83.8	15.12.01	Residual mitral stenosis,
Residual or recurrent mitral (or systemic atrioventricular) valvar stenosis,	to 2800	15.12.12	746.5	E878.8	Q23.2	Y83.8	15.12.01	Residual mitral stenosis,
Postprocedural mitral stenosis,	to 2800	15.12.02	394	E878.8	I84.2	Y83.8	10.33.02	Mitral valvar stenosis: acquired,
Residual mitral regurgitation,	to 2800	15.12.03	746.6	E878.8	Q23.3	Y83.8	15.12.03	Residual mitral regurgitation,
Residual or recurrent mitral regurgitation,	to 2800	15.12.13	746.6	E878.8	Q23.3	Y83.8	15.12.03	Residual mitral regurgitation,
Postprocedural mitral regurgitation,	to 2800	15.12.04	424	E878.8	I84.0	Y83.8	10.33.04	Mitral regurgitation: acquired,
Residual supra-mitral valvar left atrial ring,	to 2800	15.12.05	746.9	E878.8	I87.8	Y83.8	15.12.01	Residual mitral stenosis,
Procedure related damage to mitral valve,	to 2800	15.12.14	394.9	E878.8	I84.9	Y83.8	15.12.00	Postprocedural mitral valvar complication,
Ineffective mitral valve procedure,	to 1	15.12.06	394.9	E878.8	I84.9	Y83.8	15.12.00	Postprocedural mitral valvar complication,
Infective endocarditis of mitral valve,	to 615	10.06.10	421.9		I33.0		10.06.01	Infective endocarditis,
Mitral valvar abscess,	to 627	10.06.22	429.8		I51.8		10.06.20	Heart abscess,
Mitral valvar thrombosis,	to 1	10.33.07	424		I84.8		10.33.01	Mitral valvar abnormally: acquired,
inadvertent mitral valvar rupture,	to 1	15.12.07	394.9	E878.8	I84.8	Y83.8	15.12.00	Postprocedural mitral valvar complication,
inadvertent rupture of mitral valvar chords,	to 1	15.12.08	429.5	E878.8	I51.1	Y83.8	15.12.00	Postprocedural mitral valvar complication,
Mitral valvar chord entrapment by transcatheter device,	to 1	15.12.10	429.5	E878.8	I51.1	Y83.8	15.12.00	Postprocedural mitral valvar complication,
Postprocedural mitral leaflet tear,	to 173	15.12.11	424.2	E878.8	I86.1	Y83.8	15.12.00	Postprocedural mitral valvar complication,
Mitral valvar prosthesis complication,	to 2065	15.12.09	996		T82.0		15.12.09	Mitral valvar prosthesis complication,
_____ End of branch _____								
2050 Postprocedural atrioventricular septal defect complications & sequelae								
Postprocedural atrioventricular septal defect complication,	to 1	15.16.00	429.8	E878.8	I87.8	Y83.8	15.16.00	Postprocedural atrioventricular septal defect complication,
Residual atrial component of atrioventricular septal defect,	to 1	15.16.01	745.6	E878.8	Q21.2	Y83.8	15.10.63	Residual interatrial communication (ASD),
Residual ventricular component of atrioventricular septal defect,	to 1	15.16.02	745.6	E878.8	Q21.2	Y83.8	15.16.02	Residual ventricular component of atrioventricular septal defect,
Dehiscence of patch after atrioventricular septal defect repair,	to 1	15.16.03	996.7		T82.8		15.16.00	Postprocedural atrioventricular septal defect complication,
Aneurysm of patch after atrioventricular septal defect repair,	to 1	15.16.04	996.7		T82.8		15.16.00	Postprocedural atrioventricular septal defect complication,
Mechanical haemolysis due to prosthetic patch,	to 1	15.02.04	283.1	996.7	D59.4	T82.8	15.02.07	Postprocedural haemolysis,
Residual pulmonary hypertension after relief of left to right shunt,	to 685	15.22.31	416.8	E878.8	I27.8	Y83.8	15.22.31	Residual pulmonary hypertension after relief of left to right shunt,
Postprocedural atrioventricular septal defect valvar complications & sequelae	to 2052							not relevant
2052 Atrioventricular valvar complications & sequelae in atrioventricular septal defect (AVSD) & double inlet ventricle								
Right atrioventricular valvar complications & sequelae in atrioventricular septal defect (AVSD) & double inlet ventricle	to 2055							not relevant
Left atrioventricular valvar complications & sequelae in atrioventricular septal defect (AVSD) & double inlet ventricle	to 2060							not relevant
Postprocedural common atrioventricular valvar complication,	to 1	15.13.00	424.9	E878.8	I88	Y83.8	15.16.00	Postprocedural atrioventricular septal defect complication,
Postprocedural common atrioventricular valvar stenosis,	to 960	15.13.01	424.9	E878.8	I88	Y83.8	15.16.00	Postprocedural atrioventricular septal defect complication,
Residual common atrioventricular valvar regurgitation,	to 963	15.13.02	746.8	E878.8	Q24.8	Y83.8	15.13.02	Residual common atrioventricular valvar regurgitation,
Postprocedural common atrioventricular valvar regurgitation,	to 963	15.13.03	424.9	E878.8	I88	Y83.8	06.05.06	Atrioventricular septal defect (AVSD) atrioventricular valvar regurgitation,
Procedure related damage to common atrioventricular valvar,	to 2800	15.13.07	424.9	E878.8	I88	Y83.8	15.16.00	Postprocedural atrioventricular septal defect complication,
ineffective common atrioventricular valvar procedure,	to 1	15.13.04	424.9	E878.8	I88	Y83.8	15.16.00	Postprocedural atrioventricular septal defect complication,
Infective endocarditis of common atrioventricular valvar,	to 615	10.06.14	421.9		I33.0		10.06.01	Infective endocarditis,
Common atrioventricular valvar abscess,	to 627	10.06.25	429.8		I51.8		10.06.20	Heart abscess,
Common atrioventricular valvar thrombosis,	to 1	10.34.63	424.9		I88		10.34.60	Atrioventricular valvar abnormality in atrioventricular septal defect (AVSD): acquired,
inadvertent common atrioventricular valvar rupture,	to 1	15.13.05	424.9	E878.8	I88	Y83.8	15.16.00	Postprocedural atrioventricular septal defect complication,
Atrioventricular valvar prosthesis complication,	to 2065	15.13.06	996		T82.0		10.34.60	Atrioventricular valvar abnormality in atrioventricular septal defect (AVSD): acquired,
2055 Right atrioventricular valvar complications & sequelae in atrioventricular septal defect (AVSD) & double inlet ventricle								
Postprocedural right atrioventricular valvar complication,	to 1	15.14.00	424.2	E878.8	I86.9	Y83.8	15.14.00	Postprocedural right atrioventricular valvar complication,
Residual right atrioventricular valvar stenosis,	to 960	15.14.01	746.1	E878.8	Q22.4	Y83.8	06.01.92	Tricuspid stenosis,
Postprocedural right atrioventricular valvar stenosis,	to 960	15.14.02	424.2	E878.8	I86.0	Y83.8	06.01.92	Tricuspid stenosis,
Residual right atrioventricular valvar regurgitation,	to 963	15.14.03	746.8	E878.8	Q22.8	Y83.8	15.11.03	Residual tricuspid regurgitation,
Postprocedural right atrioventricular valvar regurgitation,	to 963	15.14.04	424.2	E878.8	I86.1	Y83.8	06.01.91	Tricuspid regurgitation,
Procedure related damage to right atrioventricular valvar,	to 2800	15.14.09	424.2	E878.8	I86.9	Y83.8	15.14.00	Postprocedural right atrioventricular valvar complication,
Ineffective right atrioventricular valvar procedure,	to 1	15.14.05	424.2	E878.8	I86.9	Y83.8	15.14.00	Postprocedural right atrioventricular valvar complication,
Infective endocarditis of right atrioventricular valvar,	to 615	10.06.12	421.9		I33.0		10.06.01	Infective endocarditis,
Right atrioventricular valvar abscess,	to 627	10.06.23	429.8		I51.8		10.06.20	Heart abscess,
Right atrioventricular valvar thrombosis,	to 1	10.34.07	424.2		I86.8		10.32.01	Tricuspid valvar abnormality: acquired,
inadvertent right atrioventricular valvar rupture,	to 1	15.14.06	424.2	E878.8	I86.8	Y83.8	15.14.00	Postprocedural right atrioventricular valvar complication,
inadvertent rupture of right atrioventricular valvar chords,	to 1	15.14.07	429.5	E878.8	I51.1	Y83.8	15.14.00	Postprocedural right atrioventricular valvar complication,
Right atrioventricular valvar prosthesis complication,	to 2065	15.14.08	996		T82.0		15.11.08	Tricuspid valvar prosthesis complication,
2060 Left atrioventricular valvar complications & sequelae in atrioventricular septal defect (AVSD) & double inlet ventricle								
Postprocedural left atrioventricular valvar complication,	to 1	15.15.00	394.9	E878.8	I84.9	Y83.8	15.15.00	Postprocedural left atrioventricular valvar complication,
Residual left atrioventricular valvar stenosis,	to 960	15.15.01	746.1	E878.8	Q22.4	Y83.8	15.12.01	Residual mitral stenosis,
Postprocedural left atrioventricular valvar stenosis,	to 960	15.15.02	394	E878.8	I84.2	Y83.8	10.33.02	Mitral valvar stenosis: acquired,
Residual left atrioventricular valvar regurgitation,	to 963	15.15.03	746.8	E878.8	Q22.8	Y83.8	15.12.03	Residual mitral regurgitation,
Postprocedural left atrioventricular valvar regurgitation,	to 963	15.15.04	424	E878.8	I84.0	Y83.8	10.33.04	Mitral regurgitation: acquired,
Procedure related damage to left atrioventricular valvar,	to 2800	15.15.09	394.9	E878.8	I84.9	Y83.8	15.15.00	Postprocedural left atrioventricular valvar complication,
ineffective left atrioventricular valvar procedure,	to 1	15.15.05	394.9	E878.8	I84.9	Y83.8	15.15.00	Postprocedural left atrioventricular valvar complication,
Infective endocarditis of left atrioventricular valvar,	to 615	10.06.13	421.9		I33.0		10.06.01	Infective endocarditis,
Left atrioventricular valvar abscess,	to 627	10.06.24	429.8		I51.8		10.06.20	Heart abscess,

Left atrioventricular valvar thrombosis,	to 1	10.34.47	424		04.8		10.33.01	Mitral valvar abnormality; acquired,
hadventent left atrioventricular valvar rupture,	to 1	15.15.06	394.9	E878.8	04.8	Y83.8	15.15.00	Postprocedural left atrioventricular valvar complication,
hadventent rupture of left atrioventricular valvar chords,	to 1	15.15.07	429.5	E878.8	04.8	Y83.8	15.15.00	Postprocedural left atrioventricular valvar complication,
Left atrioventricular valvar prosthesis complication,	to 2065	15.15.08	996		T82.0		15.12.09	Mitral valvar prosthesis complication,

2065 @ Specific atrioventricular valvar & great vein prosthesis complication - qualifiers

- prosthesis obstruction-stenosis,	to 960	Q1.17.21						not relevant
- prosthesis non-structural dysfunction,	to 1	Q1.17.40						not relevant
- prosthesis regurgitation,	to 963	Q1.17.22						not relevant
- prosthesis perivalvar leak,	to 963	Q1.17.23						not relevant
- prosthesis thrombosis,	to 1	Q1.17.24	996.7		T82.8			not relevant
- prosthesis dehiscence,	to 1	Q1.17.25	996.7		T82.8			not relevant
- infective endocarditis of prosthesis,	to 615	Q1.17.26	421.9		058			not relevant
- prosthesis perivalvar abscess,	to 627	Q1.17.27	429.8		051.8			not relevant
- prosthesis leaflet retraction,	to 1	Q1.17.28						not relevant
- rupture of prosthesis leaflet,	to 1	Q1.17.29						not relevant
- detachment of prosthesis leaflet,	to 1	Q1.17.30						not relevant
- mechanical failure of prosthesis,	to 1	Q1.17.31						not relevant
- secondary mechanical haemolysis due to prosthesis,	to 1	Q1.17.32	283.1		D59.8			not relevant
- undersized prosthesis,	to 1	Q1.17.33						not relevant
- oversized prosthesis,	to 1	Q1.17.34						not relevant
- calcification of prosthesis,	to 1	Q1.17.35						not relevant
- thickening of prosthesis,	to 1	Q1.17.36						not relevant
- prosthesis structural degeneration,	to 1	Q1.17.37						not relevant
- outgrown prosthetic valve size,	to 1	Q1.17.38						not relevant
- prosthetic valve parmas,	to 1	Q1.17.41						not relevant
- atrioventricular valvar-vein prosthesis complication (DESCRIBE),	to 1	Q1.17.39						not relevant
no entry	to 1	not relevant						

End of branch _____

2070 Postprocedural ventricular, subaortic and subpulmonary complications & sequelae

Postprocedural right ventricle or right ventricular outflow tract complications & sequelae	to 2075	not relevant						
Postprocedural left ventricle or left ventricular outflow tract complications & sequelae	to 2080	not relevant						
Postprocedural ventricular septal defect (VSD) complications & sequelae	to 2090	not relevant						
Postprocedural complication involving functionally univentricular heart,	to 2910	15.20.84	429.8	E878.8	097.8		15.90.01	Postprocedural complication,
Postprocedural ventricle of indeterminate morphology complication,	to 2910	15.20.71	429.8	E878.8	097.8		15.90.01	Postprocedural complication,
Postprocedural narrowing of constructed intraventricular tunnel,	to 960	15.20.72	996		T82.8		10.16.81	Narrowing of constructed intraventricular tunnel; acquired,
Narrowing of constructed intraventricular tunnel; acquired,	to 960	10.16.81	996.7		T82.8		10.16.81	Narrowing of constructed intraventricular tunnel; acquired,
Subaortic stenosis: residual,	to 281	15.20.77	429.8	E878.8	051.8	Y83.8	10.16.86	Subaortic stenosis; acquired,
Subaortic stenosis: postprocedural,	to 281	15.20.82	429.8	E878.8	051.8	Y83.8	10.16.86	Subaortic stenosis; acquired,
Postprocedural subaortic stenosis in complex heart disease,	to 281	15.20.73	429.8	E878.8	051.8	Y83.8	10.16.82	Subaortic stenosis in complex heart disease; acquired,
Residual subaortic stenosis in complex heart disease,	to 281	15.20.75	429.8	E878.8	051.8	Y83.8	15.20.75	Residual subaortic stenosis in complex heart disease,
Subaortic stenosis due to implanted atrioventricular valve,	to 960	15.20.81	429.8	E878.8	051.8	Y83.8	10.16.86	Subaortic stenosis; acquired,
Subneoaortic valvar stenosis,	to 281	15.20.79	429.8	E878.8	051.8	Y83.8	10.16.86	Subaortic stenosis; acquired,
Subpulmonary stenosis: residual,	to 281	15.20.78	429.8	E878.8	051.8	Y83.8	10.16.88	Subpulmonary stenosis; acquired,
Subpulmonary stenosis: postprocedural,	to 281	15.20.83	429.8	E878.8	051.8	Y83.8	10.16.88	Subpulmonary stenosis; acquired,
Postprocedural subpulmonary stenosis in complex heart disease,	to 281	15.20.74	429.8	E878.8	051.8	Y83.8	10.16.83	Subpulmonary stenosis in complex heart disease; acquired,
Residual subpulmonary stenosis in complex heart disease,	to 281	15.20.76	429.8	E878.8	051.8	Y83.8	15.20.76	Residual subpulmonary stenosis in complex heart disease,
Subneopulmonary valvar stenosis (native aortic valve),	to 281	15.20.80	429.8	E878.8	051.8	Y83.8	10.16.88	Subpulmonary stenosis; acquired,

2075 Postprocedural right ventricle and right ventricular outflow tract complications & sequelae

Postprocedural right ventricular bleeding complications	to 1908	not relevant						
Infection-thrombosis-laceration-perforation-rupture of right ventricle or right ventricular outflow	to 2085	not relevant						
Infective endocarditis of right ventricular wall,	to 615	10.06.15	421.9		033.0		10.06.01	Infective endocarditis,
Abscess in right ventricular wall,	to 627	10.06.29	422.9		051.8		10.06.20	Heart abscess,
Right ventricular dysfunction: generalised,	to 972	07.01.08	429.8		051.8		07.01.11	Right ventricular dysfunction,
Right ventricular dysfunction: regional,	to 972	07.01.09	429.8		051.8		07.01.11	Right ventricular dysfunction,
Right ventricular dysfunction: systolic,	to 972	10.16.04	429.8		051.8		07.01.11	Right ventricular dysfunction,
Right ventricular dysfunction: diastolic,	to 951	10.16.05	429.8		051.8		07.01.11	Right ventricular dysfunction,
False aneurysm of right ventricle (pseudo),	to 1	15.20.29	429.8	E878.8	097.8		15.20.01	Postprocedural right ventricular complication,
Residual nonobstructive pulmonary hypertension after repair,	to 1	15.22.32	416.8	E878.8	027.8	Y83.8	10.13.20	Secondary pulmonary hypertension,
Residual right ventricular outflow tract obstruction,	to 2800	15.20.23	746.8	E878.8	024.8	Y83.8	15.20.23	Residual right ventricular outflow tract obstruction,
Residual or recurrent right ventricular outflow tract obstruction,	to 2800	15.20.29	746.8	E878.8	024.8	Y83.8	15.20.23	Residual right ventricular outflow tract obstruction,
Postprocedural right ventricular outflow tract obstruction,	to 2800	15.20.24	429.8	E878.8	051.8	Y83.8	07.05.01	Right ventricular outflow tract obstruction,
Aneurysm of right ventricular outflow tract patch,	to 1	15.20.25	996.7		T82.8		15.20.25	Aneurysm of right ventricular outflow tract patch,
False aneurysm of right ventricular outflow tract (pseudo),	to 1	15.20.26	429.8	E878.8	097.8		15.20.25	Aneurysm of right ventricular outflow tract patch,
Right ventricular outflow tract obstruction due to foreign material,	to 970	15.20.27	996.7		T82.8		15.20.21	Postprocedural right ventricular outflow tract complication,
Right ventricle-to-pulmonary arterial anastomosis (REV-type) obstruction,	to 970	15.20.30	996.7		T82.8		07.05.01	Right ventricular outflow tract obstruction,
Other & unspecified postprocedural right ventricle or right ventricular outflow tract complications	to 2085	not relevant						

2080 Postprocedural left ventricle and left ventricular outflow tract complications & sequelae

Postprocedural left ventricular bleeding complications	to 1908	not relevant						
Infection-thrombosis-laceration-perforation-rupture of left ventricle or left ventricular outflow	to 2085	not relevant						
Infective endocarditis of left ventricular wall,	to 615	10.06.16	421.9		033.0		10.06.01	Infective endocarditis,
Abscess in left ventricular wall,	to 627	10.06.30	422.9		051.8		10.06.20	Heart abscess,
Left ventricular dysfunction: generalised,	to 972	07.06.08	429.8		051.8		07.06.10	Left ventricular dysfunction,
Left ventricular dysfunction: regional,	to 972	07.06.09	429.8		051.8		07.06.10	Left ventricular dysfunction,
Left ventricular dysfunction: systolic,	to 972	10.16.44	429.8		051.8		07.06.10	Left ventricular dysfunction,
Left ventricular dysfunction: diastolic,	to 951	10.16.45	429.8		051.8		07.06.10	Left ventricular dysfunction,
False aneurysm of left ventricle (pseudo),	to 1	15.21.30	429.8	E878.8	097.8		15.21.01	Postprocedural left ventricular complication,
Left ventricular subintral valvar aneurysm: postprocedural,	to 976	15.21.27	414.1	E878.8	025.3	Y83.8	07.06.13	Left ventricular aneurysm,
Left ventricular subaortic valvar aneurysm: postprocedural,	to 976	15.21.28	414.1	E878.8	025.3	Y83.8	07.06.13	Left ventricular aneurysm,
Residual left ventricular outflow tract obstruction,	to 2800	15.21.22	746.8	E878.8	024.8	Y83.8	15.21.22	Residual left ventricular outflow tract obstruction,
Residual or recurrent left ventricular outflow tract obstruction,	to 2800	15.21.31	746.8	E878.8	024.8	Y83.8	15.21.22	Residual left ventricular outflow tract obstruction,
Postprocedural left ventricular outflow tract obstruction,	to 2800	15.21.23	429.8	E878.8	051.8	Y83.8	07.09.01	Left ventricular outflow tract obstruction,
Postprocedural left ventricular outflow tract aneurysm,	to 2800	15.21.26	429.8	E878.8	051.8	Y83.8	07.09.01	Left ventricular outflow tract obstruction,
False aneurysm of left ventricular outflow tract (pseudo),	to 1	15.21.24	429.8	E878.8	097.8		15.21.21	Postprocedural left ventricular outflow tract complication,
Aneurysm of left ventricular outflow tract patch,	to 1	15.21.25	996.7		T82.8		15.21.21	Postprocedural left ventricular outflow tract complication,
Left ventricular outflow tract obstruction due to foreign material,	to 970	15.21.29	996.7		T82.8		15.21.21	Postprocedural left ventricular outflow tract complication,
Other & unspecified postprocedural left ventricle or left ventricular outflow tract complications	to 2085	not relevant						

2085 Other postprocedural complications of right or left ventricle or ventricular outflow tract

Postprocedural right ventricular complication,	to 2910	15.20.01	997.1		097.8		15.20.01	Postprocedural right ventricular complication,
Postprocedural left ventricular outflow tract complication,	to 2910	15.20.21	429.8	E878.8	051.8	Y83.8	15.20.21	Postprocedural right ventricular outflow tract complication,
Postprocedural left ventricular complication,	to 2910	15.21.01	997.1		097.8		15.21.01	Postprocedural left ventricular complication,
Postprocedural left ventricular outflow tract complication,	to 2910	15.21.21	429.8	E878.8	051.8	Y83.8	15.21.21	Postprocedural left ventricular outflow tract complication,
Postprocedural ventricular septum complication,	to 2910	15.21.00	429.8	E878.8	051.8	Y83.8	10.16.60	Abnormality associated with ventricular septum; acquired,

End of branch _____

2090 Postprocedural ventricular septal defect (VSD) complications & sequelae

Postprocedural ventricular septal defect (VSD) complication,	to 1	15.22.00	997.1		097.8		10.16.60	Abnormality associated with ventricular septum; acquired,
hadventent creation of ventricular septal defect (VSD) during procedure,	to 1	15.22.01	429.8	E878.8	051.0	Y83.8	15.22.02	Residual ventricular septal defect (VSD),
hadventent creation of ventricular septal defect (VSD) following transcatheter chemical occlusion of coronary artery,	to 1	15.22.10	429.8	E878.8	051.0	Y83.8	15.22.02	Residual ventricular septal defect (VSD),
hadventent creation of ventricular septal defect (VSD) following transcatheter chemical occlusion of coronary artery: alcohol,	to 1	15.22.12	429.8	E878.8	051.0	Y83.8	15.22.02	Residual ventricular septal defect (VSD),
hadventent creation of ventricular septal defect (VSD) during heart biopsy procedure,	to 1	15.22.34	429.8	E878.8	051.0	Y83.8	15.22.02	Residual ventricular septal defect (VSD),
Residual ventricular septal defect (VSD),	to 966	15.22.02	745.4	E878.8	021.0	Y83.8	15.22.02	Residual ventricular septal defect (VSD),
Residual or recurrent ventricular septal defect (VSD),	to 966	15.22.13	745.4	E878.8	021.0	Y83.8	15.22.02	Residual ventricular septal defect (VSD),
Spontaneous closure of residual ventricular septal defect (VSD),	to 1	15.22.08	013.6		287.7		07.16.01	Spontaneous closure of ventricular septal defect (VSD),
Postprocedural excessive restriction of ventricular septal defect (VSD),	to 1	15.22.03	429.8	E878.8	097.8	Y83.8	10.16.60	Abnormality associated with ventricular septum; acquired,
Residual restriction after attempted enlargement of ventricular septal defect (VSD),	to 1	15.22.04	429.8	E878.8	097.8	Y83.8	10.16.60	Abnormality associated with ventricular septum; acquired,
Dehiscence of patch after ventricular septal defect (VSD) repair,	to 1	15.22.05	996.7		T82.8		10.16.60	Abnormality associated with ventricular septum; acquired,
Aneurysm of patch after ventricular septal defect (VSD) repair,	to 1	15.22.06	996.7		T82.8		10.16.60	Abnormality associated with ventricular septum; acquired,
Mechanical haemolysis due to prosthetic patch,	to 600	15.02.04	283.1	996.7	D59.4	T82.8	15.02.07	Postprocedural haemolysis,
Mechanical haemolysis due to ventricular septal defect (VSD) closure device,	to 600	15.22.33	283.1	996.7	D59.4	T82.8	15.02.07	Postprocedural haemolysis,
Infective endocarditis at site of ventricular septal defect (VSD),	to 615	10.06.46	421.9		033.0		10.06.01	Infective endocarditis,
Abscess at site of ventricular septal defect (VSD),	to 627	10.06.35	422.9		051.8		10.06.20	Heart abscess,
Failed attempt to implant coil-device during transcatheter intervention,	to 2080	15.50.40	996.7	E874.5	T82.8		15.50.40	Failed attempt to implant coil-device during transcatheter intervention,
Failed attempt to implant ventricular septal defect (VSD) closure device during transcatheter intervention,	to 1660	15.22.07	996.7	E874.5	T82.8		15.50.40	Failed attempt to implant coil-device during transcatheter intervention,
Failed attempt to implant ventricular septal defect (VSD) closure device at surgery,	to 1660	15.22.11	996.7	E874.5	T82.8		15.50.40	Failed attempt to implant coil-device during transcatheter intervention,
Residual pulmonary hypertension after relief of left to right shunt,	to 685	15.22.31	416.8	E878.8	027.8	Y83.8	15.22.31	Residual pulmonary hypertension after relief of left to right shunt,
Postprocedural conduction disturbance,	to 850	15.60.03	997.1		097.1		11.06.00	Conduction disturbance,
Characteristics of pulmonary-systemic blood flow (including Qp:Qs) - qualifiers	to 975	not relevant						

End of branch _____

2100 Postprocedural ventriculo-arterial valvar, great-major arterial complications & sequelae

Postprocedural common arterial trunk & truncal valvar complications	to 2105	not relevant						
Postprocedural pulmonary valvar-trunk-arterial complications	to 2							

Postprocedural systemic arterial thrombosis,	to 1	15.24.35	997.2	87.8	15.24.00	Postprocedural systemic arterial complication,
Postprocedural carotid arterial complication,	to 2910	15.24.05	997.2	87.8	15.24.00	Postprocedural systemic arterial complication,
Postprocedural right common carotid arterial complication,	to 2910	15.24.06	997.2	87.8	15.24.00	Postprocedural systemic arterial complication,
Postprocedural left common carotid arterial complication,	to 2910	15.24.07	997.2	87.8	15.24.00	Postprocedural systemic arterial complication,
Postprocedural innominate arterial complication,	to 2910	15.24.08	997.2	87.8	15.24.00	Postprocedural systemic arterial complication,
Postprocedural right subclavian arterial complication,	to 2910	15.24.09	997.2	87.8	15.24.00	Postprocedural systemic arterial complication,
Postprocedural left subclavian arterial complication,	to 2910	15.24.11	997.2	87.8	15.24.00	Postprocedural systemic arterial complication,
Postprocedural axillary arterial complication,	to 2910	15.24.10	997.2	87.8	15.24.00	Postprocedural systemic arterial complication,
Postprocedural brachial arterial complication,	to 2910	15.24.15	997.2	87.8	15.24.00	Postprocedural systemic arterial complication,
Postprocedural femoral arterial complication,	to 2910	15.24.20	997.2	87.8	15.24.20	Postprocedural femoral arterial complication,
Postprocedural right iliac arterial complication,	to 2910	15.24.26	997.2	87.8	15.24.00	Postprocedural systemic arterial complication,
Postprocedural left iliac arterial complication,	to 2910	15.24.27	997.2	87.8	15.24.00	Postprocedural systemic arterial complication,
Postprocedural iliac and/or femoral arterial dissection,	to 977	15.24.32	997.2	87.8	15.24.20	Postprocedural femoral arterial complication,
Postprocedural right iliac and/or femoral arterial dissection,	to 977	15.24.33	997.2	87.8	15.24.20	Postprocedural femoral arterial complication,
Postprocedural left iliac and/or femoral arterial dissection,	to 977	15.24.34	997.2	87.8	15.24.20	Postprocedural femoral arterial complication,
Postprocedural radial arterial complication,	to 2910	15.24.25	997.2	87.8	15.24.00	Postprocedural systemic arterial complication,
Postprocedural right internal mammary (thoracic) arterial complication,	to 2910	15.24.28	997.2	87.8	15.24.00	Postprocedural systemic arterial complication,
Postprocedural left internal mammary (thoracic) arterial complication,	to 2910	15.24.29	997.2	87.8	15.24.00	Postprocedural systemic arterial complication,
Postprocedural residual or recurrent single ventriculo-arterial valvar stenosis,	to 2800	15.24.30	424.9	08	10.32.00	Heart valvar abnormality: acquired,
Postprocedural residual or recurrent single ventriculo-arterial valvar regurgitation,	to 2800	15.24.31	424.9	08	10.32.00	Heart valvar abnormality: acquired,

2105 Postprocedural common arterial trunk & truncal valvar complications & sequelae

Postprocedural common arterial trunk complication,	to 2910	15.25.31	447.8	E87.8	87.8	15.25.31	Postprocedural common arterial trunk complication,	
Postprocedural ventricular septal defect (VSD) complications & sequelae	to 2090	not relevant						
Postprocedural conduit complications & sequelae	to 2205	not relevant						
Postprocedural common trunk aneurysm,	to 1	15.25.33	442.8	E87.8	87.8	15.25.31	Postprocedural common arterial trunk complication,	
Postprocedural common trunk false aneurysm,	to 1	15.25.33	442.8	E87.8	87.8	15.25.31	Postprocedural common arterial trunk complication,	
Postprocedural common trunk stenosis,	to 960	15.25.34	447.8	E87.8	87.8	15.25.31	Postprocedural common arterial trunk complication,	
Postprocedural common trunk dissection,	to 1	15.25.35	447.8	E87.8	87.8	15.25.31	Postprocedural common arterial trunk complication,	
Postprocedural truncal valvar complication,	to 1	15.25.00	424.9	E87.8	08	Y83.8	15.25.31	Postprocedural common arterial trunk complication,
Residual truncal stenosis,	to 960	15.25.01	746.9	E87.8	024.8	Y83.8	10.37.01	Truncal valvar abnormality: acquired,
Postprocedural truncal stenosis,	to 960	15.25.02	424.9	E87.8	08	Y83.8	10.37.01	Truncal valvar abnormality: acquired,
Residual truncal regurgitation,	to 963	15.25.03	746.9	E87.8	024.8		15.25.03	Residual truncal regurgitation,
Postprocedural truncal regurgitation,	to 963	15.25.04	424.9	E87.8	08	Y83.8	15.25.03	Residual truncal regurgitation,
Procedure related damage to truncal valve,	to 2800	15.25.09	424.9	E87.8	08	Y83.8	15.25.31	Postprocedural common arterial trunk complication,
Ineffective truncal valvar procedure,	to 1	15.25.05	424.9	E87.8	08	Y83.8	15.25.31	Postprocedural common arterial trunk complication,
Infective endocarditis of truncal valve,	to 615	10.06.19	421.9		03.0		10.06.01	Infective endocarditis,
Truncal valvar abscess,	to 627	10.06.24	429.8		15.1		10.06.20	Heart abscess,
Truncal valvar thrombosis,	to 1	10.37.07	424.9		08		10.37.01	Truncal valvar abnormality: acquired,
Postprocedural perforated truncal cusp,	to 1	15.25.06	424.9	E87.8	08	Y83.8	10.37.01	Truncal valvar abnormality: acquired,
Inadvertent truncal valve rupture,	to 1	15.25.07	424.9	E87.8	08	Y83.8	15.25.31	Postprocedural common arterial trunk complication,
Truncal valvar prosthesis complication,	to 2135	15.25.08	996		T82.0		15.25.31	Postprocedural common arterial trunk complication,

End of branch

2110 Postprocedural pulmonary valvar-trunk-arterial complications & sequelae

Postprocedural pulmonary valvar complications & sequelae	to 2112	not relevant					
Postprocedural pulmonary trunk-RPA-LPA complications & sequelae	to 2114	not relevant					
Failed attempt to dilate valve-vessel with transcatheter intervention,	to 2880	15.50.41	996.7	E874.5	T82.8	15.50.00	Cardiac catheterisation complication,

2112 Postprocedural pulmonary valvar complications & sequelae

Postprocedural pulmonary valvar complication,	to 1	15.30.00	424.3	E87.8	037.9	Y83.8	15.30.00	Postprocedural pulmonary valvar complication,
Residual pulmonary valvar stenosis,	to 2800	15.30.01	746	E87.8	022.1	Y83.8	15.30.01	Residual pulmonary valvar stenosis,
Residual or recurrent pulmonary valvar stenosis,	to 2800	15.30.14	746	E87.8	022.1	Y83.8	15.30.01	Residual pulmonary valvar stenosis,
Postprocedural pulmonary valvar stenosis,	to 2800	15.30.02	424.3	E87.8	037.0	Y83.8	10.35.02	Pulmonary valvar stenosis: acquired,
Neopulmonary valve (native aortic valve): bicuspid (post arterial switch),	to 2800	15.30.13	424.3	E87.8	037.0	Y83.8	10.35.01	Pulmonary valvar abnormality: acquired,
Neopulmonary stenosis (native aortic valve),	to 2800	15.30.11	424.3	E87.8	037.0	Y83.8	10.35.02	Pulmonary valvar stenosis: acquired,
Neopulmonary valvar stenosis (native aortic valve),	to 2800	15.30.09	424.3	E87.8	037.0	Y83.8	10.35.02	Pulmonary valvar stenosis: acquired,
Residual pulmonary regurgitation,	to 2800	15.30.03	746	E87.8	022.2	Y83.8	15.30.03	Residual pulmonary regurgitation,
Residual or recurrent pulmonary regurgitation,	to 2800	15.30.15	746	E87.8	022.2	Y83.8	15.30.03	Residual pulmonary regurgitation,
Postprocedural pulmonary regurgitation,	to 2800	15.30.04	424.3	E87.8	037.1	Y83.8	10.35.04	Pulmonary regurgitation: acquired,
Neopulmonary valvar regurgitation (native aortic valve),	to 2800	15.30.10	424.3	E87.8	037.1	Y83.8	10.35.04	Pulmonary regurgitation: acquired,
Procedure related damage to pulmonary valve,	to 2800	15.30.16	424.3	E87.8	037.9	Y83.8	15.30.00	Postprocedural pulmonary valvar complication,
Ineffective pulmonary valvar procedure,	to 1	15.30.05	424.3	E87.8	037.9	Y83.8	15.30.00	Postprocedural pulmonary valvar complication,
Infective endocarditis of pulmonary valve,	to 615	10.06.09	421.9		03.0		10.06.01	Infective endocarditis,
Pulmonary valvar abscess,	to 627	10.06.26	429.8		15.1		10.06.20	Heart abscess,
Pulmonary valvar thrombosis,	to 1	10.35.07	424.3		03.8		10.35.01	Pulmonary valvar abnormality: acquired,
Postprocedural perforated pulmonary cusp,	to 1	15.30.06	424.3	E87.8	037.8	Y83.8	15.30.00	Postprocedural pulmonary valvar complication,
Postprocedural pulmonary valvar detachment,	to 1	15.30.12	424.3	E87.8	037.8	Y83.8	15.30.00	Postprocedural pulmonary valvar complication,
Inadvertent pulmonary valve rupture,	to 1	15.30.07	424.3	E87.8	037.8	Y83.8	15.30.00	Postprocedural pulmonary valvar complication,
Pulmonary valvar prosthesis complication,	to 2135	15.30.08	996		T82.0		15.30.08	Pulmonary valvar prosthesis complication,

2114 Postprocedural pulmonary trunk-RPA-LPA complications & sequelae

Postprocedural pulmonary trunk-RPA-LPA bleeding complications	to 1908	not relevant						
Infection-thrombosis-laceration-perforation-rupture of pulmonary trunk-RPA-LPA	to 2150	not relevant						
Post procedural pulmonary trunk complications & sequelae	to 2118	not relevant						
Residual pulmonary outflow obstruction,	to 353	15.32.54	747.3	E87.8	025.6	Y83.8	09.10.01	Pulmonary arterial stenosis,
Residual or recurrent pulmonary arterial stenosis,	to 353	15.32.52	747.3	E87.8	025.6	Y83.8	10.13.50	Pulmonary arterial disease: acquired,
Postprocedural pulmonary arterial stenosis,	to 353	15.32.55	417.8	E87.8	028.8	Y83.8	09.10.01	Pulmonary arterial stenosis,
Postprocedural right pulmonary artery complication,	to 2910	15.32.21	417.8	E87.8	028.8	Y83.8	15.32.21	Postprocedural right pulmonary artery complication,
Postprocedural right pulmonary artery stenosis,	to 353	15.32.22	417.8	E87.8	028.8	Y83.8	10.13.68	Right pulmonary arterial stenosis: acquired,
Residual right pulmonary artery stenosis,	to 353	15.32.23	747.3	E87.8	025.6	Y83.8	15.32.23	Residual right pulmonary artery stenosis,
Postprocedural partial obstruction of right pulmonary artery,	to 353	15.32.24	417.8	E87.8	028.8	Y83.8	10.13.68	Right pulmonary arterial stenosis: acquired,
Postprocedural complete obstruction of right pulmonary artery,	to 353	15.32.25	417.8	E87.8	028.8	Y83.8	10.13.68	Right pulmonary arterial stenosis: acquired,
Postprocedural right pulmonary artery distortion,	to 353	15.32.26	417.8	E87.8	028.8	Y83.8	15.32.21	Postprocedural right pulmonary artery complication,
Postprocedural left pulmonary artery complication,	to 2910	15.32.41	417.8	E87.8	028.8	Y83.8	15.32.41	Postprocedural left pulmonary artery complication,
Postprocedural left pulmonary artery stenosis,	to 353	15.32.42	417.8	E87.8	028.8	Y83.8	10.13.69	Left pulmonary arterial stenosis: acquired,
Residual left pulmonary artery stenosis,	to 353	15.32.43	747.3	E87.8	025.6	Y83.8	15.32.43	Residual left pulmonary artery stenosis,
Postprocedural partial obstruction of left pulmonary artery,	to 353	15.32.44	417.8	E87.8	028.8	Y83.8	10.13.69	Left pulmonary arterial stenosis: acquired,
Postprocedural complete obstruction of left pulmonary artery,	to 353	15.32.45	417.8	E87.8	028.8	Y83.8	10.13.69	Left pulmonary arterial stenosis: acquired,
Postprocedural left pulmonary artery distortion,	to 353	15.32.46	417.8	E87.8	028.8	Y83.8	15.32.41	Postprocedural left pulmonary artery complication,
Postprocedural right pulmonary artery hypoperfusion due to preferential flow to left pulmonary artery,	to 1	15.32.49	747.3		025.7		09.10.00	Pulmonary arterial abnormality,
Postprocedural left pulmonary artery hypoperfusion due to preferential flow to right pulmonary artery,	to 1	15.32.50	747.3		025.7		09.10.00	Pulmonary arterial abnormality,
Unintended pulmonary arterial ligation,	to 353	15.32.53	417.8	E87.8	028.8	Y83.8	09.10.00	Pulmonary arterial abnormality,
Postprocedural pulmonary arteriovenous fistulas (malformations),	to 3900	15.32.47	747.3	E87.8	026.0	Y83.8	09.19.05	Pulmonary arteriovenous fistula (malformation),
False aneurysm of pulmonary artery ('pseudo'),	to 353	15.32.51	747.3		025.7		09.10.00	Pulmonary arterial abnormality,
Postprocedural pulmonary embolus,	to 353	15.32.48	997.2		T81.7		10.13.51	Pulmonary embolism,
Other & unspecified postprocedural right or left pulmonary arterial complications	to 2150	not relevant						

2118 Post procedural pulmonary trunk complications & sequelae

Postprocedural pulmonary trunk complication,	to 2910	15.32.01	417.8	E87.8	028.8	Y83.8	15.32.01	Postprocedural pulmonary trunk complication,
Postprocedural pulmonary trunk stenosis,	to 2800	15.32.02	417.8	E87.8	028.8	Y83.8	09.07.13	Supravulvar pulmonary trunk stenosis,
Residual pulmonary trunk stenosis,	to 2800	15.32.03	747.3	E87.8	025.6	Y83.8	09.07.13	Supravulvar pulmonary trunk stenosis,
Residual or recurrent supravulvar pulmonary stenosis,	to 2800	15.32.09	747.3	E87.8	025.6	Y83.8	09.07.13	Supravulvar pulmonary trunk stenosis,
Postprocedural pulmonary trunk distortion,	to 1	15.32.04	417.8	E87.8	028.8	Y83.8	15.32.01	Postprocedural pulmonary trunk complication,
Postprocedural pulmonary trunk & arterial narrowing,	to 2800	15.32.05	417.8	E87.8	028.8	Y83.8	15.32.01	Postprocedural pulmonary trunk complication,
Migration of pulmonary trunk band to bifurcation,	to 1	15.32.06	417.8	E87.8	028.8	Y83.8	15.32.01	Postprocedural pulmonary trunk complication,
Neopulmonary supravulvar stenosis (native aortic valve),	to 2800	15.32.07	417.8	E87.8	028.8	Y83.8	09.07.13	Supravulvar pulmonary trunk stenosis,
Inadequately tight pulmonary trunk band,	to 1	15.32.08	417.8	E87.8	028.8	Y83.8	15.32.01	Postprocedural pulmonary trunk complication,
Pulmonary trunk related complications following anomalous coronary arterial repair (Takeuchi)	to 2175	not relevant						
Other & unspecified postprocedural pulmonary trunk complications	to 2150	not relevant						

End of branch

2120 Postprocedural aortic valvar, root and aorta complications & sequelae

Postprocedural aortic valvar complications & sequelae	to 2122	not relevant						
Postprocedural aortic root & ascending aorta complications & sequelae	to 2125	not relevant						
Postprocedural aortic coarctation & descending aorta complications & sequelae	to 2130	not relevant						
Failed attempt to dilate valve-vessel with transcatheter intervention,	to 2880	15.50.41	996.7	E874.5	T82.8	15.50.00	Cardiac catheterisation complication,	
Aortic branch occlusion by stent,	to 1650	15.37.70	E874.5		T82.8		15.50.00	Cardiac catheterisation complication,
Persistent true aortic aneurysm lumen collapse after stent implantation,	to 1650	15.37.71	E874.5		T82.8		15.50.00	Cardiac catheterisation complication,
Endoleak following aortic aneurysm stent implantation (incomplete sealing of aneurysm),	to 2132	15.37.72	E874.5		T82.8		15.50.00	Cardiac catheterisation complication,
Postprocedural aortic complication,	to 2910	15.37.73	447.8	E87.8	077.8	Y83.8	15.37.73	Postprocedural aortic complication,
Postprocedural aorta stenosis,	to 699	15.37.74	447.8	E87.8	077.8	Y83.8	15.37.73	Postprocedural aortic complication,
Postprocedural aorta stenosis: recurrent,	to 699	15.37.75	447.8	E87.8	077.8	Y83.8	15.37.73	Postprocedural aortic complication,
Postprocedural aorta stenosis: residual,	to 699	15.37.76	447.8	E87.8	077.8	Y83.8	15.37.73	Postprocedural aortic complication,
Postprocedural aorta stenosis: at suture line,	to 699	15.37.77	447.8	E87.8	077.8	Y83.8	15.37.73	Postprocedural aortic complication,
Aortic compression due to external conduit,	to 699	15.37.78	447.8	E87.8	077.8	Y83.8	15.37.73	Postprocedural aortic complication,
Postprocedural aortic aneurysm,	to 976	15.37.80	441.2	E87.8	071.2	Y83.8	10.14.50	Aortic aneurysm,
Postprocedural false aneurysm of aorta ('pseudo'),	to 976	15.37.79	441.2	E87.8	071.2	Y83.8	10.14.50	Aortic aneurysm,
Postprocedural aortic aneurysm following stent implantation,	to 976	15.37.81	996.1	E874.5	T82.5		15.50.70	Complication involving stent,
Residual aortic outflow obstruction,	to 976	15.37.82	447.8	E87.8	077.8	Y83.8	15.37.73	Postprocedural aortic complication,
Site of aorta abnormality	to 699	not relevant						

2122 Postprocedural aortic valvar complications & sequelae

Postprocedural aortic valvar complication,	to 1	15.35.00	424.1	E878.8	05.9	Y83.8	15.35.00	Postprocedural aortic valvar complication,
Residual aortic valvar stenosis,	to 2800	15.35.01	746.3	E878.8	Q23.0	Y83.8	15.35.01	Residual aortic valvar stenosis,
Residual or recurrent aortic valvar stenosis,	to 2800	15.35.13	746.3	E878.8	Q23.0	Y83.8	15.35.01	Residual aortic valvar stenosis,
Postprocedural aortic valvar stenosis,	to 2800	15.35.02	424.1	E878.8	05.0	Y83.8	10.36.02	Aortic valvar stenosis; acquired,
Neo-aortic valvar stenosis (native pulmonary valve),	to 2800	15.35.09	424.1	E878.8	05.0	Y83.8	10.36.02	Aortic valvar stenosis; acquired,
Neo-aortic valve: bicuspid (post arterial switch),	to 2800	15.35.12	424.1	E878.8	05.9	Y83.8	10.36.01	Aortic valvar abnormality; acquired,
Residual aortic regurgitation,	to 2800	15.35.03	746.4	E878.8	Q23.1	Y83.8	15.35.03	Residual aortic regurgitation,
Residual or recurrent aortic regurgitation,	to 2800	15.35.14	746.4	E878.8	Q23.1	Y83.8	15.35.03	Residual aortic regurgitation,
Postprocedural aortic regurgitation,	to 2800	15.35.04	424.1	E878.8	05.1	Y83.8	10.36.04	Aortic regurgitation; acquired,
Neo-aortic valvar regurgitation (native pulmonary valve),	to 2800	15.35.10	424.1	E878.8	05.1	Y83.8	10.36.04	Aortic regurgitation; acquired,
Procedure related damage to aortic valve,	to 2800	15.35.15	424.1	E878.8	05.9	Y83.8	15.35.00	Postprocedural aortic valvar complication,
Infective aortic valvar procedure,	to 1	15.35.05	424.1	E878.8	05.9	Y83.8	15.35.00	Postprocedural aortic valvar complication,
Infective endocarditis of aortic valve,	to 615	10.06.11	421.9	E878.8	03.0		10.06.01	Infective endocarditis,
Aortic valvar abscess,	to 627	10.06.27	429.8		05.8		10.06.20	Heart abscess,
Aortic valvar thrombosis,	to 1	10.36.07	424.1		05.8		10.36.01	Aortic valvar abnormality; acquired,
Postprocedural perforated aortic cusp,	to 1	15.35.06	424.1	E878.8	05.8	Y83.8	15.35.00	Postprocedural aortic valvar complication,
Inadvertent aortic cusp rupture,	to 1	15.35.07	424.1	E878.8	05.8	Y83.8	15.35.00	Postprocedural aortic valvar complication,
Postprocedural aortic valvar detachment,	to 1	15.35.11	424.1	E878.8	05.8	Y83.8	15.35.00	Postprocedural aortic valvar complication,
Aortic valvar prosthesis complication,	to 2135	15.35.08	996		T82.0		15.35.08	Aortic valvar prosthesis complication,

2125 Postprocedural aortic root & ascending aorta complications & sequelae

Postprocedural ascending aorta bleeding complications	to 1908	not relevant						
Infection-thrombosis-laceration-perforation-rupture of ascending aorta	to 2150	not relevant						
Postprocedural aortic dissection	to 2126	not relevant						
Postprocedural ascending aorta complication,	to 2910	15.36.01	447.8	E878.8	07.8	Y83.8	15.36.01	Postprocedural ascending aorta complication,
Postprocedural ascending aorta stenosis,	to 2800	15.36.02	447.1	E878.8	07.1	Y83.8	10.14.77	Supravulvar aortic stenosis; acquired,
Postprocedural ascending aorta stenosis at suture line,	to 2800	15.36.13	447.1	E878.8	07.1	Y83.8	10.14.77	Supravulvar aortic stenosis; acquired,
Postprocedural ascending aorta stenosis due to external conduit compression,	to 2800	15.36.14	447.1	E878.8	07.1	Y83.8	10.14.77	Supravulvar aortic stenosis; acquired,
Residual ascending aorta stenosis,	to 2800	15.36.03	747.2	E878.8	Q25.3	Y83.8	09.16.00	Supravulvar aortic stenosis,
Residual or recurrent supravulvar aortic obstruction,	to 2800	15.36.19	747.2	E878.8	Q25.3	Y83.8	09.16.00	Supravulvar aortic stenosis,
Neo-aortic supravulvar stenosis (native pulmonary valve),	to 2800	15.36.15	447.1	E878.8	07.1	Y83.8	10.14.77	Supravulvar aortic stenosis; acquired,
Postprocedural ascending aorta obstruction,	to 2800	15.36.04	447.1	E878.8	07.1	Y83.8	10.14.77	Supravulvar aortic stenosis; acquired,
Postprocedural ascending aorta distortion,	to 1	15.36.05	447.8	E878.8	07.8	Y83.8	15.36.01	Postprocedural ascending aorta complication,
Postprocedural aneurysm of ascending aorta,	to 1	15.36.06	441.2	E878.8	07.1	Y83.8	10.14.50	Aortic aneurysm,
Postprocedural false aneurysm of aortic root ('pseudo'),	to 1	15.36.18	441.2	E878.8	07.1	Y83.8	10.14.50	Aortic aneurysm,
Postprocedural false aneurysm of ascending aorta ('pseudo'),	to 1	15.36.07	441.2	E878.8	07.1	Y83.8	10.14.50	Aortic aneurysm,
Residual aortic sinus of Valsalva fistula,	to 1	15.36.09	747.2	E878.8	Q25.4	Y83.8	09.18.01	Aortic sinus of Valsalva aneurysm,
Residual aorto-pulmonary window,	to 966	15.36.10	745	E878.8	Q21.4	Y83.8	15.36.01	Postprocedural ascending aorta complication,
Recurrent aorto-pulmonary window,	to 966	15.36.12	745	E878.8	Q21.4	Y83.8	15.36.01	Postprocedural ascending aorta complication,
Residual or recurrent aorto-pulmonary window,	to 1	15.36.20	745	E878.8	Q21.4	Y83.8	15.36.01	Postprocedural ascending aorta complication,
Aorto-pulmonary window - acquired: iatrogenic/inadvertent,	to 600	10.20.88	745	E878.8	05.1	Y83.8	15.36.01	Postprocedural ascending aorta complication,
Aorto-pulmonary window - acquired: iatrogenic/postcatheter,	to 600	10.20.83	745	E879.0	05.1	Y84.0	15.36.01	Postprocedural ascending aorta complication,
Infective endarteritis at site of aorto-pulmonary window,	to 600	10.20.85	421.9		03.0		10.06.01	Infective endocarditis,
Recurrent aorto-left ventricular tunnel,	to 387	15.36.16	747.2	E878.8	Q25.4	Y83.8	09.17.02	Aorto - left ventricular tunnel,
Residual aorto-left ventricular tunnel,	to 387	15.36.17	747.2	E878.8	Q25.4	Y83.8	09.17.02	Aorto - left ventricular tunnel,
Residual or recurrent aortic-ventricular tunnel,	to 600	15.36.21	747.2	E878.8	Q25.4	Y83.8	15.36.01	Postprocedural ascending aorta complication,
Infective repair of aorto-cameral tunnel,	to 1	15.36.11	429.8	E878.8	07.8	Y83.8	15.36.01	Postprocedural ascending aorta complication,
Residual or recurrent aorto-cameral tunnel,	to 600	15.36.22	747.2	E878.8	Q25.4	Y83.8	15.36.01	Postprocedural ascending aorta complication,
Other & unspecified postprocedural ascending aorta complications	to 2150	not relevant						

2126 Postprocedural aortic dissection

Postprocedural aortic dissection,	to 977	15.36.23	441		07.1		10.14.51	Aortic dissection,
Postprocedural aortic root dissection,	to 977	15.36.24	441		07.1		10.14.51	Aortic dissection,
Postprocedural ascending aorta dissection,	to 977	15.36.08	441	E878.8	07.1	Y83.8	10.14.51	Aortic dissection,
Postprocedural transverse aortic arch dissection,	to 977	15.36.25	441		07.1		10.14.51	Aortic dissection,
Postprocedural descending aorta dissection,	to 977	15.36.26	441		07.1		10.14.51	Aortic dissection,
Postprocedural thoraco-abdominal aorta dissection,	to 977	15.36.27	441		07.1		10.14.51	Aortic dissection,
Postprocedural abdominal aorta dissection,	to 977	15.36.28	441		07.1		10.14.51	Aortic dissection,
Ascending aorta dissection & propagation beyond arch (DeBakey type I),	to 977	10.14.52	441		07.1		10.14.52	Ascending aorta dissection & propagation beyond arch (DeBakey type I),
Ascending aorta dissection not beyond arch (DeBakey type II-Starford type A),	to 977	10.14.53	441		07.1		10.14.53	Ascending aorta dissection not beyond arch (DeBakey type II-Starford type A),
Descending aorta dissection & distal propagation (DeBakey type III-Starford type B),	to 977	10.14.54	441		07.1		10.14.54	Descending aorta dissection & distal propagation (DeBakey type III-Starford type B),

2130 Postprocedural aortic coarctation & descending aorta complications & sequelae

Postprocedural descending aorta bleeding complications	to 1908	not relevant						
Infection-thrombosis-laceration-perforation-rupture of descending aorta	to 2150	not relevant						
Postprocedural descending aorta complication,	to 2910	15.37.01	447.8	E878.8	07.8	Y83.8	15.37.01	Postprocedural descending aorta complication,
Postprocedural descending aorta stenosis,	to 960	15.37.02	447.1	E878.8	07.1	Y83.8	15.37.01	Postprocedural descending aorta complication,
Postprocedural descending aorta obstruction,	to 960	15.37.03	447.8	E878.8	07.8	Y83.8	15.37.01	Postprocedural descending aorta complication,
Postprocedural dissection of descending aorta,	to 1	15.37.04	441	E878.8	07.1	Y83.8	10.14.51	Aortic dissection,
Residual aortic coarctation,	to 699	15.37.05	747.1	E878.8	Q25.1	Y83.8	15.37.05	Residual aortic coarctation,
Residual or recurrent aortic arch coarctation,	to 2800	15.37.14	747.1	E878.8	Q25.1	Y83.8	15.37.05	Residual aortic coarctation,
Postprocedural aortic coarctation,	to 699	15.37.06	441.1	E878.8	07.1	Y83.8	15.37.05	Residual aortic coarctation,
Postprocedural aneurysm of aorta at coarctation site,	to 1	15.37.07	447.2	E878.8	07.1	Y83.8	15.37.07	Postprocedural aneurysm of aorta at coarctation site,
Postprocedural false aneurysm of aorta at coarctation site,	to 1	15.37.08	447.8	E878.8	07.8	Y83.8	15.37.07	Postprocedural aneurysm of aorta at coarctation site,
Postprocedural distortion of aorta at coarctation site,	to 1	15.37.09	447.8	E878.8	07.8	Y83.8	15.37.01	Postprocedural descending aorta complication,
Postprocedural rupture of aorta at coarctation site,	to 1	15.37.10	447.2	E878.8	07.1	Y83.8	15.37.01	Postprocedural descending aorta complication,
Inadvertent ligation of descending aorta,	to 1	15.37.11	447.8	E878.8	07.8	Y83.8	15.37.01	Postprocedural descending aorta complication,
Infective endarteritis at site of aortic coarctation,	to 615	10.06.47	447.6		07.6		10.06.01	Infective endocarditis,
Abscess at site of aortic coarctation,	to 627	10.06.36	447.2		07.2		10.06.20	Heart abscess,
Postprocedural paradoxical systemic hypertension,	to 1	15.37.12	405.9		05.8		10.14.00	Secondary systemic hypertension,
adequate relief of vascular ring,	to 1	15.37.13	447.8	E878.8	07.8	Y83.8	15.37.01	Postprocedural descending aorta complication,
Other & unspecified postprocedural descending aorta complications	to 2150	not relevant						

2132 @ Type of post-stent implantation endoleak

- Persistent leak (Type I),	to 1650	Q1.38.50					not relevant
- Persistent leak: proximal (Type Ia),	to 1650	Q1.38.51					not relevant
- Persistent leak: distal (Type Ib),	to 1650	Q1.38.52					not relevant
- Collateral backflow (retrograde leak) (Type II),	to 1650	Q1.38.53					not relevant
- Stent fabric tear (Type III),	to 1650	Q1.38.54					not relevant
- Stent fabric (porosity) or suture leak (Type IV),	to 1650	Q1.38.55					not relevant
no entry	to 1650	not relevant					not relevant

End of branch

2135 @ Specific ventriculo-arterial valvar prosthesis complication - qualifiers

- ventriculo-arterial valvar prosthesis structural failure,	to 1	Q1.38.00					not relevant
- ventriculo-arterial valvar prosthesis non-structural dysfunction,	to 1	Q1.38.21					not relevant
- ventriculo-arterial valvar prosthesis obstruction-stenosis,	to 960	Q1.38.01					not relevant
- ventriculo-arterial valvar prosthesis regurgitation,	to 963	Q1.38.02					not relevant
- ventriculo-arterial valvar prosthesis perivalvar leak,	to 963	Q1.38.03					not relevant
- ventriculo-arterial valvar prosthesis thrombosis,	to 1	Q1.38.04	996.6		T82.8		not relevant
- ventriculo-arterial valvar prosthesis dehiscence,	to 1	Q1.38.05	996.6		T82.8		not relevant
- infective endocarditis of ventriculo-arterial valvar prosthesis,	to 615	Q1.38.06	421.9		08		not relevant
- ventriculo-arterial valvar prosthesis perivalvar abscess,	to 627	Q1.38.07	429.8		05.8		not relevant
- ventriculo-arterial valvar prosthesis leaflet retraction,	to 1	Q1.38.08					not relevant
- rupture of ventriculo-arterial valvar prosthesis leaflet,	to 1	Q1.38.09					not relevant
- detachment of ventriculo-arterial valvar prosthesis leaflet,	to 1	Q1.38.10					not relevant
- ventriculo-arterial valvar prosthesis mechanical failure,	to 1	Q1.38.11					not relevant
- secondary mechanical haemolysis due to ventriculo-arterial valvar prosthesis,	to 1	Q1.38.12	283.1		D59.8		not relevant
- undersized ventriculo-arterial valvar prosthesis,	to 1	Q1.38.13					not relevant
- oversized ventriculo-arterial valvar prosthesis,	to 1	Q1.38.14					not relevant
- calcification of ventriculo-arterial valvar prosthesis,	to 1	Q1.38.15					not relevant
- thickening of ventriculo-arterial valvar prosthesis,	to 1	Q1.38.16					not relevant
- ventriculo-arterial valvar prosthesis structural degeneration,	to 1	Q1.38.17					not relevant
- outgrown ventriculo-arterial valvar prosthesis size,	to 1	Q1.38.18					not relevant
- ventriculo-arterial valvar prosthesis pannus,	to 1	Q1.38.20					not relevant
- ventriculo-arterial prosthesis complication (DESCRIBE),	to 1	Q1.38.19					not relevant
no entry	to 1	not relevant					not relevant

End of branch

2140 Postprocedural arterial duct (PDA) complications & sequelae

Postprocedural arterial duct bleeding complications	to 1908	not relevant						
Infection-thrombosis-laceration-perforation-rupture of arterial duct	to 2150	not relevant						
Postprocedural arterial duct complication,	to 2910	15.39.01	447.8	E878.8	07.8	Y83.8	15.39.01	Postprocedural arterial duct complication,
Postprocedural arterial duct patency,	to 968	15.39.05	447.8	E878.8	07.8	Y83.8	15.39.01	Postprocedural arterial duct complication,
Residual arterial duct (PDA) patency,	to 988	15.39.02	747	E878.8	Q25.0	Y83.3	15.39.02	Residual arterial duct (PDA) patency,
Residual or recurrent arterial duct (PDA) patency,	to 988	15.39.06	747	E878.8	Q25.0	Y83.3	15.39.02	Residual arterial duct (PDA) patency,
Infective endarteritis of arterial duct,	to 615	10.06.18	447.6		07.6		10.06.01	Infective endocarditis

End of branch									
2150	Other & unspecified postprocedural complications of great arteries								
	Postprocedural pulmonary trunk complication,	to 2910	15.32.01	417.8	E878.8	28.8	Y83.8	15.32.01	Postprocedural pulmonary trunk complication,
	Postprocedural right pulmonary artery complication,	to 2910	15.32.21	417.8	E878.8	28.8	Y83.8	15.32.21	Postprocedural right pulmonary artery complication,
	Postprocedural left pulmonary artery complication,	to 2910	15.32.41	417.8	E878.8	28.8	Y83.8	15.32.41	Postprocedural left pulmonary artery complication,
	Postprocedural ascending aorta complication,	to 2910	15.36.01	447.8	E878.8	77.8	Y83.8	15.36.01	Postprocedural ascending aorta complication,
	Postprocedural descending aorta complication,	to 2910	15.37.01	447.8	E878.8	77.8	Y83.8	15.37.01	Postprocedural descending aorta complication,
	Postprocedural arterial duct complication,	to 2910	15.39.01	447.8	E878.8	77.8	Y83.8	15.39.01	Postprocedural arterial duct complication,
End of branch									
2160	Postprocedural systemic-to-pulmonary collateral artery complications								
	Postprocedural systemic-to-pulmonary collateral artery complication,	to 3300	15.39.50	447.8	E878.8	77.8	Y83.8	15.39.50	Postprocedural systemic-to-pulmonary collateral artery complication,
	Postprocedural systemic-to-pulmonary collateral artery distortion,	to 3300	15.39.51	447.8	E878.8	77.8	Y83.8	15.39.50	Postprocedural systemic-to-pulmonary collateral artery complication,
	Postprocedural systemic-to-pulmonary collateral artery stenosis,	to 3300	15.39.52	447.1	E878.8	77.1	Y83.8	15.39.50	Postprocedural systemic-to-pulmonary collateral artery complication,
	Postprocedural systemic-to-pulmonary collateral artery partial obstruction,	to 3300	15.39.53	447.1	E878.8	77.1	Y83.8	15.39.50	Postprocedural systemic-to-pulmonary collateral artery complication,
	Postprocedural systemic-to-pulmonary collateral artery complete obstruction,	to 3300	15.39.54	447.1	E878.8	77.1	Y83.8	15.39.50	Postprocedural systemic-to-pulmonary collateral artery complication,
	Postprocedural systemic-to-pulmonary collateral artery laceration,	to 3300	15.39.55	998.2		T81.2		15.39.50	Postprocedural systemic-to-pulmonary collateral artery complication,
	Postprocedural systemic-to-pulmonary collateral artery perforation,	to 3300	15.39.56	998.2		T81.2		15.39.50	Postprocedural systemic-to-pulmonary collateral artery complication,
	Postprocedural systemic-to-pulmonary collateral artery haemorrhage,	to 3300	15.39.57	998.1		T81.0		15.02.00	Postprocedural haemorrhage,
	Postprocedural systemic-to-pulmonary collateral artery dissection,	to 3300	15.39.58	459.9	E878.8	77.8	Y83.8	15.39.50	Postprocedural systemic-to-pulmonary collateral artery complication,
	Postprocedural systemic-to-pulmonary collateral artery transection,	to 3300	15.39.59	998.2		T81.2		15.39.50	Postprocedural systemic-to-pulmonary collateral artery complication,
	Pulmonary hypertension due to unibranch systemic-pulmonary collateral flow,	to 3300	10.13.23	416.8		I27.8		10.13.21	Pulmonary hypertension due to left to right shunt,
End of branch									
2170	Postprocedural coronary arterial complications								
	Postprocedural native coronary arterial complications	to 2172	not relevant						
	Complications following repair of anomalous coronary artery	to 2175	not relevant						
	Postprocedural coronary arterial bypass graft (CABG) complications	to 2180	not relevant						
	Postprocedural myocardial infarct	to 1880	not relevant						
	Cardiac transplant associated coronary allograft vasculopathy,	to 600	15.41.13	414	996.8	I25.1	T86.2	15.41.13	Cardiac transplant associated coronary allograft vasculopathy,
2172	Postprocedural native coronary artery complications & sequelae								
	Postprocedural coronary arterial complication,	to 467	15.41.00	447.8	E878.8	77.8	Y83.8	15.41.00	Postprocedural coronary arterial complication,
	Postprocedural coronary arterial complication following arterial switch procedure,	to 467	15.41.00	447.8	E878.8	77.8	Y83.8	15.41.00	Postprocedural coronary arterial complication,
	Procedural complication related to coronary stent implantation,	to 467	15.41.82	447.8	E878.8	77.8	Y83.8	15.41.00	Postprocedural coronary arterial complication,
	Postprocedural coronary artery related myocardial ischaemia,	to 467	15.41.59	447.8	E878.8	77.8	Y83.8	15.41.00	Postprocedural coronary arterial complication,
	Postprocedural coronary arterial stenosis,	to 470	15.41.01	414	E878.8	25.1	Y83.8	15.41.00	Postprocedural coronary arterial complication,
	Postprocedural coronary arterial ostial stenosis,	to 470	15.41.55	414	E878.8	25.1	Y83.8	15.41.00	Postprocedural coronary arterial complication,
	Postprocedural coronary arterial compression,	to 470	15.41.57	414	E878.8	25.1	Y83.8	15.41.00	Postprocedural coronary arterial complication,
	Coronary arterial compression following transluminal device implantation,	to 467	15.50.61	996.1	E874.5	T82.5		15.41.00	Postprocedural coronary arterial complication,
	Postprocedural coronary arterial embolus,	to 467	15.41.02	410	E878.8	24.8	Y83.8	15.41.00	Postprocedural coronary arterial complication,
	Postprocedural coronary arterial occlusion,	to 467	15.41.03	410	E878.8	24.8	Y83.8	15.41.00	Postprocedural coronary arterial complication,
	Postprocedural coronary arterial side branch occlusion,	to 467	15.41.04	410	E878.8	24.8	Y83.8	15.41.00	Postprocedural coronary arterial complication,
	Postprocedural coronary arterial spasm,	to 467	15.41.05	413	E878.8	20.1	Y83.8	15.41.00	Postprocedural coronary arterial complication,
	Coronary arterial spasm during procedure,	to 467	15.41.61	413	E878.8	20.1	Y83.8	15.41.00	Postprocedural coronary arterial complication,
	Coronary arterial insufficiency during procedure,	to 467	15.41.81	413	E878.8	20.1	Y83.8	15.41.00	Postprocedural coronary arterial complication,
	Postprocedural coronary arterial dissection,	to 467	15.41.06	447.8	E878.8	77.8	Y83.8	15.41.00	Postprocedural coronary arterial complication,
	Postprocedural coronary arterial avulsion,	to 467	15.41.56	447.8	E878.8	77.8	Y83.8	15.41.00	Postprocedural coronary arterial complication,
	Postprocedural coronary arterial rupture,	to 467	15.41.07	410	E878.8	21.9	Y83.8	15.41.00	Postprocedural coronary arterial complication,
	Postprocedural coronary arterial thrombosis,	to 467	15.41.08	410	E878.8	24.8	Y83.8	15.41.00	Postprocedural coronary arterial complication,
	Postprocedural coronary arterial thrombosis with myocardial infarct,	to 467	15.41.83	997.1	410	87.8	I21	15.41.00	Postprocedural coronary arterial complication,
	Postprocedural coronary arterial perforation,	to 467	15.41.09	998.2		T81.2		15.41.00	Postprocedural coronary arterial complication,
	Intraoperative coronary arterial laceration,	to 467	15.41.10	998.2		T81.2		15.41.00	Postprocedural coronary arterial complication,
	Postprocedural coronary arterial haematoma,	to 467	15.41.11	998.1		T81.0		15.41.00	Postprocedural coronary arterial complication,
	Inadequate procedure to relieve coronary arterial middle bridging,	to 467	15.41.58	447.8	E878.8	77.8	Y83.8	15.41.00	Postprocedural coronary arterial complication,
	Postprocedural coronary arteriovenous fistula,	to 467	15.41.12	429.8	E878.8	87.8		15.41.00	Postprocedural coronary arterial complication,
	Postprocedural coronary arteriovenous fistula: after surgery,	to 467	15.41.15	429.8	E878.8	87.8		15.41.00	Postprocedural coronary arterial complication,
	Postprocedural coronary arteriovenous fistula: after cardiac catheterisation,	to 467	15.41.16	429.8	E878.8	87.8		15.41.00	Postprocedural coronary arterial complication,
	Postprocedural coronary arteriovenous fistula: after angioplasty,	to 467	15.41.17	429.8	E878.8	87.8		15.41.00	Postprocedural coronary arterial complication,
	Postprocedural coronary arteriovenous fistula: after endomyocardial biopsy,	to 467	15.41.18	429.8	E878.8	87.8		15.41.00	Postprocedural coronary arterial complication,
	Postprocedural coronary arterial aneurysm,	to 467	15.41.50	429.8	E878.8	87.8		15.41.00	Postprocedural coronary arterial complication,
	Postprocedural coronary arterial aneurysm: after surgery,	to 467	15.41.51	429.8	E878.8	87.8		15.41.00	Postprocedural coronary arterial complication,
	Postprocedural coronary arterial aneurysm: after cardiac catheterisation,	to 467	15.41.52	429.8	E878.8	87.8		15.41.00	Postprocedural coronary arterial complication,
	Postprocedural coronary arterial aneurysm: after angioplasty,	to 467	15.41.53	429.8	E878.8	87.8		15.41.00	Postprocedural coronary arterial complication,
	Postprocedural coronary arterial aneurysm: after endomyocardial biopsy,	to 467	15.41.54	429.8	E878.8	87.8		15.41.00	Postprocedural coronary arterial complication,
	Inadvertent compromise of right ventricle dependent coronary circulation,	to 1	15.41.14	429.8	E878.8	87.8		15.41.00	Postprocedural coronary arterial complication,
2175	Complications following repair of anomalous coronary artery								
	Postprocedural anomalous coronary arterial complication,	to 470	15.41.70	429.8	E878.8	87.8		15.41.00	Postprocedural coronary arterial complication,
	Anomalous aortic origin of coronary artery repair complication,	to 470	15.41.75	429.8	E878.8	87.8		15.41.00	Postprocedural coronary arterial complication,
	Anomalous aortic origin of coronary artery repair complication: aortic wall dissection,	to 470	15.41.76	429.8	E878.8	87.8		15.41.00	Postprocedural coronary arterial complication,
	Anomalous pulmonary origin of coronary artery repair complication,	to 470	15.41.77	429.8	E878.8	87.8		15.41.00	Postprocedural coronary arterial complication,
	Anomalous pulmonary origin of coronary artery repair complication after direct anastomosis to aorta,	to 470	15.41.78	429.8	E878.8	87.8		15.41.00	Postprocedural coronary arterial complication,
	Anomalous pulmonary origin of coronary artery repair complication after intrapulmonary tunnel (Takeuchi),	to 470	15.41.79	429.8	E878.8	87.8		15.41.00	Postprocedural coronary arterial complication,
	Pulmonary trunk related complication after anomalous coronary arterial repair (Takeuchi),	to 1	15.41.71	429.8	E878.8	87.8		15.32.01	Postprocedural pulmonary trunk complication,
	Pulmonary trunk related complication after anomalous coronary arterial repair (Takeuchi): pulmonary trunk stenosis,	to 960	15.41.72	417.8	E878.8	28.8	Y83.8	09.07.13	Supravalvular pulmonary trunk stenosis,
	Pulmonary trunk related complication after anomalous coronary arterial repair (Takeuchi): intrapulmonary baffle leak,	to 960	15.41.73	429.8	E878.8	87.8		15.32.01	Postprocedural pulmonary trunk complication,
	Pulmonary trunk related complication after anomalous coronary arterial repair (Takeuchi): intrapulmonary baffle obstruction,	to 960	15.41.74	429.8	E878.8	87.8		15.32.01	Postprocedural pulmonary trunk complication,
	Pulmonary trunk related complication after anomalous coronary arterial repair (Takeuchi): intrapulmonary baffle stenosis,	to 960	15.41.80	429.8	E878.8	87.8		15.32.01	Postprocedural pulmonary trunk complication,
2180	Postprocedural coronary arterial bypass graft (CABG) complications								
	Postprocedural coronary artery bypass graft (CABG) complication,	to 2194	15.41.39	996.7		T82.8		15.41.39	Postprocedural coronary artery bypass graft (CABG) complication,
	Malposition of coronary artery bypass graft (CABG),	to 2194	15.41.21	996.0		T82.2		15.41.39	Postprocedural coronary artery bypass graft (CABG) complication,
	Coronary artery bypass graft (CABG) too long,	to 2194	15.41.22	996.1	E878.2	Y83.2		15.41.39	Postprocedural coronary artery bypass graft (CABG) complication,
	Coronary artery bypass graft (CABG) too short,	to 2194	15.41.23	996.1	E878.2	Y83.2		15.41.39	Postprocedural coronary artery bypass graft (CABG) complication,
	Twisting of coronary artery bypass graft (CABG),	to 2194	15.41.24	996.0		T82.2		15.41.39	Postprocedural coronary artery bypass graft (CABG) complication,
	Postprocedural coronary artery bypass graft (CABG) stenosis,	to 2194	15.41.25	996.7		T82.8		15.41.39	Postprocedural coronary artery bypass graft (CABG) complication,
	Postprocedural coronary artery bypass graft (CABG) embolus,	to 2194	15.41.26	996.7		T82.2		15.41.39	Postprocedural coronary artery bypass graft (CABG) complication,
	Postprocedural coronary artery bypass graft (CABG) occlusion,	to 2194	15.41.27	996.0		T82.8		15.41.39	Postprocedural coronary artery bypass graft (CABG) complication,
	Postprocedural coronary artery bypass graft (CABG) spasm,	to 2194	15.41.28	996.7		T82.8		15.41.39	Postprocedural coronary artery bypass graft (CABG) complication,
	Postprocedural coronary artery bypass graft (CABG) thrombosis,	to 2194	15.41.29	996.7		T82.2		15.41.39	Postprocedural coronary artery bypass graft (CABG) complication,
	Postprocedural coronary artery bypass graft (CABG) perforation,	to 2194	15.41.30	996.0		T82.2		15.41.39	Postprocedural coronary artery bypass graft (CABG) complication,
	Postprocedural coronary artery bypass graft (CABG) rupture,	to 2194	15.41.31	996.7		T82.2		15.41.39	Postprocedural coronary artery bypass graft (CABG) complication,
	Intraoperative coronary artery bypass graft (CABG) laceration,	to 2194	15.41.32	998.2		T81.2		15.41.39	Postprocedural coronary artery bypass graft (CABG) complication,
	Postprocedural coronary artery bypass graft (CABG) haematoma,	to 2194	15.41.33	996.7		T82.8		15.41.39	Postprocedural coronary artery bypass graft (CABG) complication,
	Aneurysm of coronary artery bypass graft (CABG),	to 2194	15.41.34	996.7		T82.8		15.41.39	Postprocedural coronary artery bypass graft (CABG) complication,
	Calcification of coronary artery bypass graft (CABG),	to 2194	15.41.35	996.7		T82.8		15.41.39	Postprocedural coronary artery bypass graft (CABG) complication,
	Atherosclerosis of coronary artery bypass graft (CABG),	to 2194	15.41.36	996.7		T82.8		15.41.39	Postprocedural coronary artery bypass graft (CABG) complication,
	Avulsion of coronary artery bypass graft (CABG)	to 2182	not relevant						
2182	Avulsion of coronary artery bypass graft (CABG)								
	Avulsion of coronary artery bypass graft (CABG),	to 2194	15.41.41	996.0		T82.2		15.41.39	Postprocedural coronary artery bypass graft (CABG) complication,
	Avulsion of coronary artery bypass graft (CABG) from aorta,	to 2194	15.41.42	996.0		T82.2		15.41.39	Postprocedural coronary artery bypass graft (CABG) complication,
	Avulsion of coronary artery bypass graft (CABG) from coronary artery,	to 2194	15.41.43	996.0		T82.2		15.41.39	Postprocedural coronary artery bypass graft (CABG) complication,
2194 @	Number of coronary artery bypass graft (CABG) effected - qualifiers								
	- 1 graft,	to 470	Q1.39.01						not relevant
	- 2 grafts,	to 470	Q1.39.02						not relevant
	- 3 grafts,	to 470	Q1.39.03						not relevant
	- 4 grafts,	to 470	Q1.39.04						not relevant
	- 5 grafts,	to 470	Q1.39.05						not relevant
	- 6 grafts,	to 470	Q1.39.06						not relevant
	- 7 grafts,	to 470	Q1.39.07						not relevant
	- 8 grafts,	to 470	Q1.39.08						not relevant
	- 9 grafts,	to 470	Q1.39.09						not relevant
	no entry	to 470	not relevant						
End of branch									
2200	Cardiac conduit & systemic to PA shunt complications & sequelae								
	Cardiac conduit complications & sequelae	to 2205	not relevant						
	Systemic-to-pulmonary arterial shunt complications & sequelae	to 2210	not relevant						
	Postprocedural pulmonary arterial complications</								

2205 Cardiac conduit complications & sequelae

Cardiac conduit complication,	to 2240	15.55.00	996.7		T82.9	15.55.00	Cardiac conduit complication,
Cardiac conduit failure,	to 2240	15.55.16	996.0		T82.5	15.55.16	Cardiac conduit failure,
Cardiac conduit obstruction,	to 2240	15.55.20	996.0		T82.5	15.55.16	Cardiac conduit failure,
Cardiac conduit partial obstruction,	to 2240	15.55.01	996.0		T82.5	15.55.16	Cardiac conduit failure,
Cardiac conduit partial obstruction due to neointimal proliferation,	to 2240	15.55.26	996.0		T82.5	15.55.16	Cardiac conduit failure,
Cardiac conduit complete obstruction,	to 2240	15.55.02	996.0		T82.5	15.55.16	Cardiac conduit failure,
Cardiac conduit stenosis,	to 2240	15.55.17	996.7		T82.8	15.55.16	Cardiac conduit failure,
Proximal cardiac conduit anastomosis stenosis,	to 2240	15.55.03	996.7		T82.8	15.55.16	Cardiac conduit failure,
Distal cardiac conduit anastomosis stenosis,	to 2240	15.55.04	996.7		T82.8	15.55.16	Cardiac conduit failure,
Cardiac conduit regurgitation,	to 2240	15.55.18	996.7		T82.8	15.55.16	Cardiac conduit failure,
Conduit dilation,	to 2240	15.55.22	996.7		T82.8	15.55.00	Cardiac conduit complication,
Aneurysm of conduit,	to 2240	15.55.05	996.7		T82.8	15.55.00	Cardiac conduit complication,
False aneurysm of conduit,	to 2240	15.55.06	996.7		T82.8	15.55.00	Cardiac conduit complication,
Pulmonary autograft failure,	to 2240	15.55.24	996.7		T82.8	15.55.24	Pulmonary autograft failure,
Pulmonary autograft aneurysm,	to 2240	15.55.21	996.7		T82.8	15.55.00	Cardiac conduit complication,
Cardiac conduit too long,	to 2240	15.55.07	996.1	E878.2	Y83.2	15.55.00	Cardiac conduit complication,
Cardiac conduit too short,	to 2240	15.55.08	996.1	E878.2	Y83.2	15.55.00	Cardiac conduit complication,
Cardiac conduit too large,	to 2240	15.55.09	996.1	E878.2	Y83.2	15.55.00	Cardiac conduit complication,
Cardiac conduit too small,	to 2240	15.55.10	996.1	E878.2	Y83.2	15.55.00	Cardiac conduit complication,
Distorted-twisted cardiac conduit,	to 2240	15.55.11	996.0		T82.5	15.55.00	Cardiac conduit complication,
Cardiac conduit thrombosis,	to 2240	15.55.23	996.7		T82.8	15.55.00	Cardiac conduit complication,
Infective endocarditis of conduit,	to 2240	10.06.50	996.6		T82.7	10.06.01	Infective endocarditis,
Abscess at site of conduit,	to 627	10.06.38	996.6		T82.7	10.06.20	Heart abscess,
Cardiac conduit valve complication,	to 2215	15.55.12	996.7		T82.8	15.55.00	Cardiac conduit complication,
Outgrowth of cardiac conduit,	to 2240	15.55.13	996.7		T82.8	15.55.00	Cardiac conduit complication,
Calcification of cardiac conduit,	to 2240	15.55.14	996.7		T82.8	15.55.00	Cardiac conduit complication,
Degeneration of cardiac conduit,	to 2240	15.55.15	996.7		T82.8	15.55.16	Cardiac conduit failure,
Conduit rupture following balloon dilation	to 2240	15.51.34	998.2	E870.6	T81.2 Y60.5	15.50.00	Cardiac catheterisation complication,

2210 Systemic-to-pulmonary arterial shunt complications & sequelae

Systemic-to-pulmonary arterial shunt complication,	to 2240	15.56.00	996.7		T82.9	15.56.00	Systemic-to-pulmonary arterial shunt complication,
Systemic-to-pulmonary arterial shunt failure,	to 2240	15.56.21	996.7		T82.9	15.56.21	Systemic-to-pulmonary arterial shunt failure,
Systemic-to-pulmonary arterial shunt partial obstruction,	to 2240	15.56.01	996.0		T82.5	15.56.01	Systemic-to-pulmonary arterial shunt partial obstruction,
Systemic-to-pulmonary arterial shunt partial obstruction due to neointimal proliferation,	to 2240	15.56.25	996.0		T82.5	15.56.01	Systemic-to-pulmonary arterial shunt partial obstruction,
Systemic-to-pulmonary arterial shunt complete obstruction,	to 2240	15.56.02	996.0		T82.5	15.56.02	Systemic-to-pulmonary arterial shunt complete obstruction,
Systemic-to-pulmonary arterial shunt obstruction by thrombus,	to 2240	15.56.11	996.7		T82.8	15.56.01	Systemic-to-pulmonary arterial shunt partial obstruction,
Proximal systemic-to-pulmonary arterial shunt anastomosis stenosis,	to 2240	15.56.03	996.7		T82.8	15.56.01	Systemic-to-pulmonary arterial shunt partial obstruction,
Distal systemic-to-pulmonary arterial shunt anastomosis stenosis,	to 2240	15.56.04	996.7		T82.8	15.56.01	Systemic-to-pulmonary arterial shunt partial obstruction,
Overgenerous systemic-to-pulmonary arterial shunt,	to 2240	15.56.05	996.7	E878.2	T82.8 Y83.2	15.56.00	Systemic-to-pulmonary arterial shunt complication,
Pulmonary hypertension due to overgenerous systemic-to-pulmonary arterial shunt,	to 3300	10.13.22	416.8		I27.8 Y83.8	10.13.21	Pulmonary hypertension due to left to right shunt,
Asymmetric pulmonary blood flow after systemic-to-pulmonary arterial shunt,	to 2240	15.56.17	996.7	E878.2	T82.8 Y83.2	15.56.00	Systemic-to-pulmonary arterial shunt complication,
Ineffective systemic-to-pulmonary arterial shunt,	to 2240	15.56.06	996.7	E878.2	T82.8 Y83.2	15.56.00	Systemic-to-pulmonary arterial shunt complication,
Aneurysm of applied shunt,	to 2240	15.56.07	996.7		T82.8	15.56.00	Systemic-to-pulmonary arterial shunt complication,
False aneurysm of applied shunt,	to 2240	15.56.08	996.7		T82.8	15.56.00	Systemic-to-pulmonary arterial shunt complication,
Infective endocarditis of applied shunt,	to 2240	10.06.49	996.6		T82.7	10.06.01	Infective endocarditis,
Abscess at site of systemic-to-pulmonary arterial shunt,	to 2240	10.06.37	996.6		T82.7	10.06.20	Heart abscess,
Residual systemic-to-pulmonary arterial shunt after attempted closure,	to 2240	15.56.09	997.1	E878.2	Y83.2	15.56.00	Systemic-to-pulmonary arterial shunt complication,
Outgrowth of systemic-to-pulmonary arterial shunt,	to 2240	15.56.10	996.7		T82.8	15.56.00	Systemic-to-pulmonary arterial shunt complication,
Systemic-to-pulmonary arterial shunt distortion by transcatheter balloon,	to 2240	15.56.12	996.7		T82.8	15.56.00	Systemic-to-pulmonary arterial shunt complication,
Systemic-to-pulmonary arterial shunt related sarcoma,	to 2240	15.56.13	996.7		T82.8	15.56.00	Systemic-to-pulmonary arterial shunt complication,
Systemic-to-pulmonary arterial shunt 'steal': subclavian from vertebral artery,	to 2240	15.56.14	996.7		T82.8	15.56.00	Systemic-to-pulmonary arterial shunt complication,
Systemic-to-pulmonary arterial shunt related limb ischaemia,	to 2240	15.56.15	996.7		T82.8	15.56.00	Systemic-to-pulmonary arterial shunt complication,
Systemic-to-pulmonary arterial shunt related loss of limb,	to 2240	15.56.16	996.7		T82.8	15.56.00	Systemic-to-pulmonary arterial shunt complication,
Postprocedural systemic-to-pulmonary arterial shunt complication,	to 2240	15.56.19	996.7		T82.8	15.56.00	Systemic-to-pulmonary arterial shunt complication,
Postprocedural aortic arch branch arterial complications	to 2100	not relevant					

2215 @ Specific postprocedural cardiac conduit valve complications - qualifiers

- conduit valve dysfunction,	to 1	Q1.55.30					not relevant
- conduit valve stenosis,	to 960	Q1.55.31					not relevant
- conduit valve regurgitation,	to 963	Q1.55.32					not relevant
- conduit valve thrombosis,	to 1	Q1.55.33	996.7		T82.6		not relevant
- infective endocarditis of conduit valve,	to 615	Q1.55.34	421.8		D8		not relevant
- perivalvar conduit abscess,	to 627	Q1.55.35	429.8		E1.8		not relevant
- conduit leaflet retraction,	to 1	Q1.55.36					not relevant
- rupture of conduit leaflet,	to 1	Q1.55.37					not relevant
- detachment of conduit leaflet,	to 1	Q1.55.38					not relevant
- calcification of conduit valve,	to 1	Q1.55.39					not relevant
- degeneration of conduit valve,	to 1	Q1.55.40					not relevant
- outgrowth size of conduit valve,	to 1	Q1.55.41					not relevant
- cardiac conduit complication (DESCRIBE),	to 1	Q1.55.49					not relevant
no entry	to 1	not relevant					

2240 @ Location and outcomes of cardiac conduit or shunt complication - qualifiers

- proximal end,	to 960	Q1.56.01					not relevant
- distal end,	to 960	Q1.56.02					not relevant
- entire length involved,	to 960	Q1.56.03					not relevant
- right atrium to right ventricular conduit,	to 960	Q1.56.04					not relevant
- right ventricle to pulmonary arterial conduit,	to 960	Q1.56.05					not relevant
- right ventricle to aorta conduit,	to 960	Q1.56.06					not relevant
- left ventricle to pulmonary arterial conduit,	to 960	Q1.56.07					not relevant
- left ventricle to aorta conduit,	to 960	Q1.56.08					not relevant
- pulmonary arterial conduit,	to 960	Q1.56.09					not relevant
- aortic conduit,	to 960	Q1.56.10					not relevant
- systemic venous to pulmonary arterial (Fontan type) intracardiac conduit,	to 960	Q1.56.11					not relevant
- systemic venous to pulmonary arterial (Fontan type) extracardiac conduit,	to 960	Q1.56.18					not relevant
- Mustard atrial baffle,	to 2037	Q1.56.12					not relevant
- Senning atrial baffle,	to 2037	Q1.56.13					not relevant
- systemic-to-pulmonary arterial shunt,	to 960	Q1.56.17					not relevant
- right-sided systemic-to-pulmonary arterial shunt,	to 960	Q1.56.14					not relevant
- left-sided systemic-to-pulmonary arterial shunt,	to 960	Q1.56.15					not relevant
- central systemic-to-pulmonary arterial shunt,	to 960	Q1.56.16					not relevant
- requiring reintervention,	to 1	Q1.91.37					not relevant
- requiring reintervention during same admission,	to 1	Q1.91.38					not relevant
- requiring reintervention during same admission or within 30 days of original procedure,	to 1	Q1.91.39					not relevant
Materials for constructed conduit	to 1630	not relevant					
Materials for patches	to 1608	not relevant					
Materials for banding procedures	to 1645	not relevant					
Materials for stent procedures	to 1650	not relevant					
Materials for balloon procedures	to 1663	not relevant					
Procedural details involving ligation, division and closure of vessels	to 1604	not relevant					
Infection type & inflammation qualifiers	to 627	not relevant					
no entry	to 960	not relevant					

End of branch

2260 Postprocedural Fontan and cavopulmonary connection complications

Superior cavopulmonary anastomosis complication,	to 2813	15.90.62	459.2		87.1	15.04.01	Postprocedural superior caval vein (SVC) complication,	
Superior cavopulmonary anastomosis stenosis,	to 2813	15.90.63	459.2		87.1	15.04.01	Postprocedural superior caval vein (SVC) complication,	
Superior cavopulmonary anastomosis complication causing elevated superior caval vein pressure,	to 2813	15.90.64	459.2		87.1	15.04.01	Postprocedural superior caval vein (SVC) complication,	
Superior caval vein (SVC) syndrome,	to 2813	10.31.04	459.2		87.1	15.04.01	Postprocedural superior caval vein (SVC) complication,	
Fontan type circulation complication,	to 1685	15.90.73	998.9		T81.8	15.90.01	Postprocedural complication,	
Fontan type circulation complication: premature closure of fenestration,	to 1685	15.90.74	998.9		T81.8	15.90.01	Postprocedural complication,	
Fontan type circulation complication: prolonged chest tube output,	to 1685	15.90.75	998.9		T81.8	15.90.01	Postprocedural complication,	
Pleural effusions	to 1960	not relevant						
Residual right to left shunt following Fontan-type procedure,	to 1685	15.10.78	745.5	E878.8	Q21.1 Y83.8	15.10.63	Residual interatrial communication (ASD),	
Residual right to left shunt at atrial level following Fontan-type procedure,	to 1685	15.10.77	745.5	E878.8	Q21.1 Y83.8	15.10.63	Residual interatrial communication (ASD),	
'Failed' Fontan type circulation,	to 1685	15.90.69	998.9		T81.8	15.90.60	'Failed' Fontan type circulation,	
'Failed' Fontan type circulation: within 24 hours,	to 1685	15.90.65	998.9		T81.8	15.90.60	'Failed' Fontan type circulation,	
'Failed' Fontan type circulation: less than or equal to 30 days postprocedure,	to 1685	15.90.76	998.9		T81.8	15.90.60	'Failed' Fontan type circulation,	
'Failed' Fontan type circulation: over 24 hours during hospital stay or within 30 days,	to 1685	15.90.66	998.9		T81.8	15.90.60	'Failed' Fontan type circulation,	
'Failed' Fontan type circulation: after hospital discharge or after 30 days,	to 1685	15.90.67	998.9		T81.8	15.90.60	'Failed' Fontan type circulation,	
'Failed' Fontan type circulation: greater than or equal to 1 year post procedure,	to 1685	15.90.77	998.9		T81.8	15.90.60	'Failed' Fontan type circulation,	
'Failed' Fontan type circulation due to arrhythmia,	to 1685	15.90.68	998.9		T81.8	15.90.60	'Failed' Fontan type circulation,	
'Failed' Fontan type circulation due to cyanosis,	to 1685	15.90.69	998.9		T81.8	15.90.60	'Failed' Fontan type circulation,	
'Failed' Fontan type circulation due to low cardiac output,	to 1685	15.90.70	998.9		T81.8	15.90.60	'Failed' Fontan type circulation,	
'Failed' Fontan type circulation due to pathway obstruction,	to 1685	15.90.71	998.9		T81.8	15.90.60	'Failed' Fontan type circulation,	
'Failed' Fontan type circulation due to pulmonary arteriovenous fistulae,	to 1685	15.90.72	998.9		T81.8	15.90.60	'Failed' Fontan type circulation,	
'Failed' Fontan type circulation requiring take-down or revision,	to 1685	15.90.61	998.9		T81.8	15.90.60	'Failed' Fontan type circulation,	
Arrhythmia following procedure,	to 800	15.90.02	997.1		877.8	49.9	15.90.02	Arrhythmia following procedure,
Postprocedural protein losing enteropathy,	to 1	15.82.23	579.8	E878.8	K90.4 Y83.8	15.82.23	Postprocedural protein losing enteropathy,	
Postprocedural ascites,	to 1988	15.82.36	789.5	997.4	R18 Y83.8	15.90.01	Postprocedural complication,	
Postprocedural severe intractable ascites,	to 1988	15.82.40	789.5	997.4	R18 Y83.8	15.90.01	Postprocedural complication,	
Postprocedural pulmonary arteriovenous fistulas (malformations),	to 3300	15.32.47	747.3	E878.8	D2.0 Y83.8	09.19.05	Pulmonary arteriovenous fistula (malformation),	
Postprocedural plastic bronchitis,	to 3300	15.81.01	519.1	997.3	J98.0	15.80.70	Postprocedural complication involving tracheobronchial tree,	

2300 Complications following heart and/or lung transplantation

Specific complications following heart transplant	to 2305	not relevant							
Specific complications following lung transplant	to 2330	not relevant							
Post-transplant infections	to 2320	not relevant							
Complication after heart or lung transplant,	to 1	15.95.00	996.8		T86.3		15.95.00	Complication after heart or lung transplant,	
Systemic hypertension due to anti-rejection drug therapy,	to 1	10.14.25	405.9	995.2	I15.8	T88.7	10.14.00	Secondary systemic hypertension,	
Post-transplant chronic renal failure,	to 1	15.95.01	585	E878.0	N18.9	Y83.0	15.82.00	Postprocedural renal failure,	
Lymphoproliferative disease following transplantation,	to 1	15.95.03	203.8	E878.0	C88.9	Y83.0	15.95.03	Lymphoproliferative disease following transplantation,	
Lymphoproliferative disease following transplantation - Epstein Barr Virus positive,	to 1	15.95.04	203.8	E878.0	C88.9	Y83.0	15.95.03	Lymphoproliferative disease following transplantation,	
Lymphoproliferative disease following transplantation - non-Epstein Barr Virus,	to 1	15.95.05	203.8	E878.0	C88.9	Y83.0	15.95.03	Lymphoproliferative disease following transplantation,	
Non-LPD malignancy following transplantation,	to 1	15.95.06	199.1	E878.0	C80	Y83.0	15.95.00	Complication after heart or lung transplant,	
Post-transplant rejection due to non-compliance,	to 1	15.95.07	996.8	V15.8	T86.9	Z91.1	15.95.00	Complication after heart or lung transplant,	
Post-transplant drug induced leucopenia,	to 1	15.95.08	288	E878.0	D70	Y83.0	15.95.00	Complication after heart or lung transplant,	
Transplant complication due to cytomegalovirus (CMV) mismatch,	to 1	15.95.09	E878.0				15.95.00	Complication after heart or lung transplant,	
Heart and/or lung graft failure,	to 2335	15.95.10	996.8		T86.2		15.95.00	Complication after heart or lung transplant,	
Heart and/or lung graft rejection,	to 2335	15.95.11	996.8		T86.2		15.95.00	Complication after heart or lung transplant,	
Heart and lung graft failure,	to 2335	15.95.12	996.8		T86.2		15.95.00	Complication after heart or lung transplant,	
Heart and lung graft rejection,	to 2335	15.95.13	996.8		T86.2		15.95.00	Complication after heart or lung transplant,	
Post heart and/or lung transplant anastomosis related complication,	to 1	15.95.14	996.8		T86.2		15.95.00	Complication after heart or lung transplant,	
Post heart and/or lung transplant encephalopathy and/or seizures,	to 1	15.95.15	780.3	995.2	R56.8	T88.7	15.82.51	Postprocedural generalised seizures,	
Seizures due to anti-rejection drug therapy,	to 1	15.95.02	780.3	995.2	R56.8	T88.7	15.82.51	Postprocedural generalised seizures,	

2305 Specific complications following heart transplant

Complication following heart transplant,	to 1	15.95.21	996.8	E878.0	I87.9	Y83.0	15.95.00	Complication after heart or lung transplant,	
Post heart transplant graft failure,	to 2335	15.95.28	996.8		T86.2		15.95.00	Complication after heart or lung transplant,	
Post heart transplant graft rejection,	to 2335	15.95.30	996.8		T86.2		15.95.00	Complication after heart or lung transplant,	
Heart muscle disease in cardiac rejection,	to 688	10.07.42	996.8		T86.2		10.07.42	Heart muscle disease in cardiac rejection,	
Ventricular dysfunction	to 650	not relevant							
Hyperacute humeral cardiac rejection,	to 951	15.95.22	996.8		T86.2		10.07.42	Heart muscle disease in cardiac rejection,	
Accelerated cellular cardiac rejection,	to 951	15.95.23	996.8		T86.2		10.07.42	Heart muscle disease in cardiac rejection,	
Acute cellular cardiac rejection,	to 951	15.95.24	996.8		T86.2		10.07.42	Heart muscle disease in cardiac rejection,	
Electrocardiographic (ECG) changes attributable to cardiac rejection,	to 800	15.95.25	794.3	996.8	R94.3	T86.2	10.07.42	Heart muscle disease in cardiac rejection,	
Echocardiogram changes attributable to cardiac rejection,	to 600	15.95.26	793.2	996.8	R93.1	T86.2	10.07.42	Heart muscle disease in cardiac rejection,	
Cardiac transplant associated coronary allograft vasculopathy,	to 600	15.41.13	414	996.8	I25.1	T86.2	15.41.13	Cardiac transplant associated coronary allograft vasculopathy,	
Coronary atherosclerosis in transplanted heart,	to 600	15.95.27	414	996.8	I25.1	T86.2	10.09.10	Acquired coronary arterial disease,	

2320 Post-transplant infections

Post-transplant infection,	to 627	15.95.31	136.9	E878.0	B99	Y83.0	15.95.00	Complication after heart or lung transplant,	
Post-transplant infection: bacterial,	to 627	15.95.32	41.9	E878.0	A49.9	Y83.0	15.95.00	Complication after heart or lung transplant,	
Post-transplant infection: viral,	to 628	15.95.33	79.9	E878.0	B34.9	Y83.0	15.95.00	Complication after heart or lung transplant,	
Post-transplant infection: cytomegalovirus (CMV),	to 1	15.95.34	78.5	E878.0	B25.9	Y83.0	15.95.00	Complication after heart or lung transplant,	
Post-transplant infection: Epstein Barr Virus,	to 1	15.95.35	79.8	E878.0	B27.0	Y83.0	15.95.00	Complication after heart or lung transplant,	
Post-transplant infection: fungal,	to 628	15.95.36	117.9	E878.0	B49	Y83.0	15.95.00	Complication after heart or lung transplant,	
Post-transplant infection: aspergillosis,	to 1	15.95.37	117.3	E878.0	B44.9	Y83.0	15.95.00	Complication after heart or lung transplant,	
Post-transplant infection: toxoplasmosis,	to 1	15.95.38	130	E878.0	B58.9	Y83.0	15.95.00	Complication after heart or lung transplant,	
Post-transplant infection: pneumocystis,	to 1	15.95.39	136.3	E878.0	B59	Y83.0	15.95.00	Complication after heart or lung transplant,	
Post-transplant infection: opportunistic,	to 627	15.95.40	136.9	E878.0	B99	Y83.0	15.95.00	Complication after heart or lung transplant,	

2330 Specific complications following lung transplant

Complication following lung transplant,	to 1	15.95.61	996.8		T86.3		15.95.00	Complication after heart or lung transplant,	
Tracheobronchial complications	to 1965	not relevant							
Post-lung transplant rejection,	to 2335	15.95.66	996.8		T86.3		15.95.66	Post-lung transplant rejection,	
Post-lung transplant graft failure,	to 2335	15.95.62	996.8		T86.3		15.95.66	Post-lung transplant rejection,	
Post-lung transplant infection,	to 951	15.95.74	996.8	136.9	T86.3	B99	15.95.66	Post-lung transplant rejection,	
Post-lung transplant acute pulmonary rejection,	to 951	15.95.63	996.8		T86.3		15.95.66	Post-lung transplant rejection,	
Post-lung transplant obliterative bronchiolitis,	to 951	15.95.64	491.8	996.8	J44.8	T86.3	15.95.64	Post-lung transplant obliterative bronchiolitis,	
Post-lung transplant obliterative bronchiolitis: transplanted lung,	to 951	15.95.67	491.8	996.8	J44.8	T86.3	15.95.64	Post-lung transplant obliterative bronchiolitis,	
Post-lung transplant obliterative bronchiolitis: native lung,	to 951	15.95.68	491.8	996.8	J44.8	T86.3	15.95.64	Post-lung transplant obliterative bronchiolitis,	
Abnormal lung function attributable to lung rejection,	to 951	15.95.65	794.2	996.8	R94.2	T86.3	15.95.66	Post-lung transplant rejection,	
Post-lung transplant anastomotic complication,	to 2340	15.95.70	996.8		J95.8		15.95.00	Complication after heart or lung transplant,	
Post-lung transplant persistent air leak,	to 951	15.95.71	996.8		J95.8		15.95.00	Complication after heart or lung transplant,	
Post-lung transplant persistent air leak: bronchopulmonary fistula,	to 951	15.95.72	996.8		J95.8		15.95.00	Complication after heart or lung transplant,	
Post-lung transplant persistent air leak: parenchymal,	to 951	15.95.73	996.8		J95.8		15.95.00	Complication after heart or lung transplant,	
Post-lung transplant need for surveillance biopsy,	to 1	15.95.75	996.8		T86.3		15.95.00	Complication after heart or lung transplant,	
Post-lung transplant need for biopsy as follow-up to previous biopsy,	to 1	15.95.76	996.8		T86.3		15.95.00	Complication after heart or lung transplant,	
Post-lung transplant pulmonary infiltrate,	to 1	15.95.77	996.8		T86.3		15.95.00	Complication after heart or lung transplant,	

2335 @ Causes & timing of heart and/or lung transplant graft failure and/or rejection - qualifiers

- rejection,	to 1	Q1.96.01					not relevant		
- rejection: acute,	to 1	Q1.96.06					not relevant		
- rejection: hyperacute,	to 1	Q1.96.07					not relevant		
- rejection: chronic,	to 1	Q1.96.08					not relevant		
- rejection: antibody-mediated,	to 1	Q1.96.09					not relevant		
- rejection: cellular,	to 1	Q1.96.10					not relevant		
- infection,	to 627	Q1.96.02					not relevant		
- aspiration,	to 1	Q1.96.03					not relevant		
- idiopathic,	to 1	Q1.96.04					not relevant		
- embolic,	to 1	Q1.96.05					not relevant		
- acute,	to 1	Q1.40.47					not relevant		
- chronic,	to 1	Q1.40.48					not relevant		
- subacute,	to 1	Q1.96.20					not relevant		
- cause of graft failure (DESCRIBE),	to 1	Q1.96.19					not relevant		
no entry									

2340 @ Post-lung transplant anastomotic complication - qualifiers

- arterial,	to 1	Q1.96.21					not relevant		
- arterial stricture,	to 1	Q1.96.22					not relevant		
- arterial dehiscence,	to 1	Q1.96.23					not relevant		
- bronchial,	to 1	Q1.96.24					not relevant		
- bronchial stricture,	to 1	Q1.96.25					not relevant		
- bronchial dehiscence,	to 1	Q1.96.26					not relevant		
- tracheal,	to 1	Q1.96.27					not relevant		
- tracheal stricture,	to 1	Q1.96.28					not relevant		
- tracheal dehiscence,	to 1	Q1.96.29					not relevant		
- venous,	to 1	Q1.96.30					not relevant		
- venous stricture,	to 1	Q1.96.31					not relevant		
- venous dehiscence,	to 1	Q1.96.32					not relevant		
- anastomotic complication (DESCRIBE),	to 1	not relevant					not relevant		
no entry	to 1	Q1.96.39					not relevant		

2400 Complications related to echocardiographic procedures

Complication related to echocardiographic procedure,	to 1	15.58.01	E879.8		Y84.8		15.58.01	Complication related to echocardiographic procedure,	
Trans thoracic echocardiography related complication,	to 1	15.58.02	E879.8		Y84.8		15.58.01	Complication related to echocardiographic procedure,	
Epicardial echocardiography related complication,	to 1	15.58.03	E879.8		Y84.8		15.58.01	Complication related to echocardiographic procedure,	
Transoesophageal echocardiography related complication,	to 1	15.58.04	E879.8		Y84.8		15.58.01	Complication related to echocardiographic procedure,	
Transoesophageal echocardiography related complication: chemical burn of oesophagus or oropharynx,	to 1	15.58.05	947.2	E879.8	T28.1	Y84.8	15.58.01	Complication related to echocardiographic procedure,	
Transoesophageal echocardiography related complication: dental injury,	to 1	15.58.06	873.6	E879.8	S09.9	Y84.8	15.58.01	Complication related to echocardiographic procedure,	
Transoesophageal echocardiography related complication: oesophageal perforation,	to 1	15.58.07	530.4	E879.8	K22.8	Y84.8	15.58.01	Complication related to echocardiographic procedure,	
Transoesophageal echocardiography related complication: postprocedural dysphagia,	to 1	15.58.08	787.2	E879.8	R13	Y84.8	15.58.01	Complication related to echocardiographic procedure,	
Transoesophageal echocardiography related complication: airway compromise,	to 1	15.58.09	E879.8		Y84.8		15.58.01	Complication related to echocardiographic procedure,	
Transoesophageal echocardiography related complication: airway compromise: not requiring removal of probe,	to 1	15.58.10	E879.8		Y84.8		15.58.01	Complication related to echocardiographic procedure,	
Transoesophageal echocardiography related complication: airway compromise: requiring removal of probe,	to 1	15.58.11	E879.8		Y84.8		15.58.01	Complication related to echocardiographic procedure,	
Transoesophageal echocardiography related complication: bleeding from oropharynx or oesophagus,	to 1	15.58.12	530.8	E879.8	K22.8	Y84.8	15.58.01	Complication related to echocardiographic procedure,	
Transoesophageal echocardiography related complication: haemodynamic or vascular compromise,	to 1	15.58.13	E879.8		Y84.8		15.58.01	Complication related to echocardiographic procedure,	
Transoesophageal echocardiography related complication: haemodynamic or vascular compromise: not requiring removal of probe,	to 1	15.58.14	E879.8		Y84.8		15.58.01	Complication related to echocardiographic procedure,	
Transoesophageal echocardiography related complication: haemodynamic or vascular compromise: requiring removal of probe,	to 1	15.58.15	E879.8		Y84.8		15.58.01	Complication related to echocardiographic procedure,	
Transoesophageal echocardiography related complication: unintended extubation during manipulation or removal of probe,	to 1	15.58.16	E879.8		Y84.8		15.58.01	Complication related to echocardiographic procedure,	
Fetal echocardiography related complication,	to 1	15.58.17	E879.8		Y84.8		15.58.01	Complication related to echocardiographic procedure,	
Intracardiac echocardiography related complication,	to 1	15.58.18	E879.8		Y84.8		15.58.01	Complication related to echocardiographic procedure,	
Intravascular ultrasound (IVUS) related complication,	to 1	15.58.19	E879.8		Y84.8		15.58.01	Complication related to echocardiographic procedure,	

2600 Complications related to cardiac catheterisation & transluminal interventions

Complication related to transcatheter cardiovascular intervention,									
Peri- & postprocedural cardiovascular disorders-complications	to 1880	not relevant							
Failure of transcatheter procedures	to 2602	not relevant							
Trauma related complications during catheterisation	to 2605	not relevant							

Local complications at cardiac catheterisation approach sites	to 2610	not relevant						
Problems involving equipment during cardiac catheterisation	to 2620	not relevant						
Complications following device implantation	to 2622	not relevant						
Complications involving stents	to 2624	not relevant						
Complications following coil implantation	to 2626	not relevant						
Transluminal arrhythmia ablation procedure related complications	to 925	not relevant						
Specific complications following fetal intervention	to 2680	not relevant						
Vascular access and line complications	to 2790	not relevant						
Postprocedural hypovolaemia	to 1890	not relevant						
Qualifiers related to timing of event with respect to cardiovascular catheterisation procedure	to 2816	not relevant						
Cardiac catheterisation complication,	to 2800	15.50.00	998.0	E879.0	T81.9	Y84.0	15.50.00	Cardiac catheterisation complication,
Complication related to transcatheter cardiovascular intervention,	to 2800	15.51.36	998.0	E879.0	T81.9	Y84.0	15.50.00	Cardiac catheterisation complication,
Cardiovascular catheterisation angioplasty related complication,	to 2800	15.41.62	998.0	E879.0	T81.9	Y84.0	15.50.00	Cardiac catheterisation complication,
No cardiovascular catheterisation complication,	to 2800	15.50.19					15.50.03	No postprocedural complications,
Cardiovascular catheterisation related haemodynamic derangement,	to 2800	15.50.08	998.0	E879.0	T81.9	Y84.0	15.50.00	Cardiac catheterisation complication,
Transcatheter cardiac biopsy related complication,	to 2800	15.41.68	998.0	E879.0	T81.9	Y84.0	15.50.00	Cardiac catheterisation complication,
Cardiovascular catheterisation valvuloplasty related complication,	to 2800	15.41.69	998.0	E879.0	T81.9	Y84.0	15.50.00	Cardiac catheterisation complication,
Complication following transcatheter balloon dilation,	to 2800	15.51.32	998.0	E879.0	T81.9	Y84.0	15.50.00	Cardiac catheterisation complication,
Complication following transcatheter cutting balloon dilation,	to 2800	15.51.40	998.0	E879.0	T81.9	Y84.0	15.50.00	Cardiac catheterisation complication,
Vessel restenosis following balloon angioplasty,	to 3220	15.51.39	998.0	E879.0	T81.9	Y84.0	15.50.00	Cardiac catheterisation complication,
Allergic reaction to contrast medium,	to 2800	15.50.02	E947.8		Y57.5		15.50.00	Cardiac catheterisation complication,
Atrial-oesophageal fistula following transmural ablation procedure,	to 2800	15.50.59	998.2	E870.6	T81.2	Y60.5	15.50.00	Cardiac catheterisation complication,
Postprocedural air embolus,	to 2800	15.50.07	999.1		T81.7		15.90.01	Postprocedural complication,
Postprocedural systemic air embolus,	to 2800	15.50.05	999.1		T81.7		15.90.01	Postprocedural complication,
Postprocedural venous or pulmonary air embolus,	to 2800	15.50.06	999.1		T81.7		15.90.01	Postprocedural complication,
Postprocedural cerebral air embolus,	to 2800	15.82.61	999.1		T81.7		15.92.50	Neurological complication after cardiac procedure,
Coronary arterial spasm during procedure,	to 467	15.41.61	413	E878.8	I20.1	Y83.8	15.41.00	Postprocedural coronary arterial complication,
Hypercyanotic spell during cardiac catheterisation procedure,	to 1	15.50.04	998	E879.0	T81.9	Y84.0	15.50.00	Cardiac catheterisation complication,
Arrhythmia during procedure,	to 800	15.60.01	997.1		87.8	H9.9	11.00.00	Arrhythmia,
Arrhythmia following procedure,	to 800	15.60.02	997.1		87.8	H9.9	15.60.02	Arrhythmia following procedure,
Postprocedural non-specific ST-T wave changes,	to 1	15.60.04	997.1		87.1		11.20.00	Electrocardiographic (ECG) abnormality,
Postprocedural conduction disturbance,	to 850	15.60.03	997.1		87.1		11.06.00	Conduction disturbance,
2602 Failure of transcatheter procedures								
Failure of transcatheter procedure,	to 2880	15.60.20	996.7	E874.5	T82.8		15.50.00	Cardiac catheterisation complication,
Unsuccessful use of device,	to 2880	15.60.22	996.7	E874.5	T82.8		15.50.00	Cardiac catheterisation complication,
Failure of transcatheter procedure with requirement for surgical approach,	to 2880	15.60.21	996.7	E874.5	T82.8		15.50.00	Cardiac catheterisation complication,
Failed attempt to implant coil device during transcatheter intervention,	to 2880	15.50.40	996.7	E874.5	T82.8		15.50.40	Failed attempt to implant coil-device during transcatheter intervention,
Failed attempt to implant atrial septal defect (ASD) closure device during transcatheter intervention,	to 2880	15.60.88	996.7	E874.5	T82.8		15.50.40	Failed attempt to implant coil-device during transcatheter intervention,
Failed attempt to implant ventricular septal defect (VSD) closure device during transcatheter intervention,	to 2880	15.22.07	996.7	E874.5	T82.8		15.50.40	Failed attempt to implant coil-device during transcatheter intervention,
Failed attempt to implant ductal coil-device during transcatheter intervention,	to 2880	15.39.04	996.7	E874.5	T82.8		15.50.40	Failed attempt to implant coil-device during transcatheter intervention,
Failed attempt to dilate valve-vessel with transcatheter intervention,	to 2880	15.50.41	996.7	E874.5	T82.8		15.50.00	Cardiac catheterisation complication,
Failed attempt to implant stent during transcatheter intervention,	to 2880	15.50.42	996.7	E874.5	T82.8		15.50.00	Cardiac catheterisation complication,
Failure to access coronary sinus for pacing,	to 1	15.50.58	996.7	E874.5	T82.8		15.50.00	Cardiac catheterisation complication,
2605 Trauma related complications during catheterisation								
Trauma related complication of cardiovascular catheterisation,	to 2800	15.50.09	998.2	E870.6	T81.2	Y60.5	15.50.00	Cardiac catheterisation complication,
Hi-rampocardial injection of contrast medium,	to 1	15.50.01	970.6		Y60.5		15.50.01	Hi-rampocardial injection of contrast medium,
Perforation of cardiac chamber-vessel during cardiac catheterisation,	to 3205	15.50.03	998.2	E870.6	T81.2	Y60.5	15.50.03	Perforation of cardiac chamber-vessel during cardiac catheterisation,
Traumatic damage to heart valve during cardiovascular catheterisation procedure,	to 3205	15.50.20	998.2	E870.6	T81.2	Y60.5	15.50.00	Cardiac catheterisation complication,
Rupture of vessel following transmural balloon dilation,	to 3205	15.52.10	996.1	E874.5	T82.5		15.50.00	Cardiac catheterisation complication,
Conduit rupture following balloon dilation	to 2240	15.51.34	998.2	E870.6	T81.2	Y60.5	15.50.00	Cardiac catheterisation complication,
Cardiac perforation during cardiac biopsy procedure,	to 3205	15.50.21	998.2	E870.6	T81.2	Y60.5	15.50.00	Cardiac catheterisation complication,
Vascular tear during catheterisation procedure: unconfined & increasing in size,	to 3200	15.41.63	998.2	E870.6	T81.2	Y60.5	15.50.00	Cardiac catheterisation complication,
Vascular tear during catheterisation procedure: unconfined & increasing in size,	to 3200	15.41.64	998.2	E870.6	T81.2	Y60.5	15.50.00	Cardiac catheterisation complication,
Vascular tear during catheterisation procedure: confined perivascular,	to 3200	15.41.65	998.2	E870.6	T81.2	Y60.5	15.50.00	Cardiac catheterisation complication,
Vascular tear during catheterisation procedure: intravascular with flow obstruction,	to 3200	15.41.66	998.2	E870.6	T81.2	Y60.5	15.50.00	Cardiac catheterisation complication,
Vascular tear during catheterisation procedure: intravascular without flow obstruction,	to 3200	15.41.67	998.2	E870.6	T81.2	Y60.5	15.50.00	Cardiac catheterisation complication,
2610 Local complications at cardiac catheterisation approach sites								
Postprocedural great vein bleeding complications	to 1912	not relevant						
Iliac, femoral, jugular, subclavian & axillary vein complications	to 2020	not relevant						
Postprocedural major artery bleeding complications	to 1908	not relevant						
Carotid, axillary, brachial, femoral artery complications	to 2100	not relevant						
Lost pulse after cardiac catheterisation,	to 1	15.50.11	997.2	E879.0	T81.7	Y84.0	15.50.11	Lost pulse after cardiac catheterisation,
Loss of limb after cardiac catheterisation,	to 1	15.50.12	997.2	E879.0	T81.7	Y84.0	15.50.00	Cardiac catheterisation complication,
Delayed haemorrhage from access site of cardiac catheterisation,	to 1	15.50.15	998.1	E870.6	T81.0	Y60.5	15.02.00	Postprocedural haemorrhage,
Haematoma at access site of cardiac catheterisation,	to 1	15.50.16	998.1	E870.6	T81.0	Y60.5	15.50.00	Cardiac catheterisation complication,
Infection at access site of cardiac catheterisation,	to 1	15.50.17	998.5		T81.4		15.50.00	Cardiac catheterisation complication,
Local complication at access site of cardiac catheterisation,	to 1	15.50.19	998.8		T81.8		15.50.00	Cardiac catheterisation complication,
Pseudo-aneurysm at access site for cardiovascular catheter procedure,	to 1	15.60.23	998.8		T81.8		15.50.00	Cardiac catheterisation complication,
2620 Problems involving equipment during cardiac catheterisation								
Complications following device or coil implantation	to 2622	not relevant						
Equipment problem during cardiac catheterisation,	to 1	15.50.30	996.1	E874.5	T82.5		15.50.30	Equipment problem during cardiac catheterisation,
Complication related to equipment during cardiovascular catheterisation,	to 1	15.51.35	996.1	E874.5	T82.5		15.50.30	Equipment problem during cardiac catheterisation,
Catheter knotted during cardiovascular catheterisation,	to 1	15.50.31	996.1	E874.5	T82.5		15.50.30	Equipment problem during cardiac catheterisation,
Catheter broken during cardiovascular catheterisation,	to 1	15.50.32	996.1	E874.5	T82.5		15.50.30	Equipment problem during cardiac catheterisation,
Angiographic catheter rupture during cardiovascular catheterisation,	to 1	15.51.27	996.1	E874.5	T82.5		15.50.30	Equipment problem during cardiac catheterisation,
Catheter guide wire breakage during cardiovascular catheterisation,	to 1	15.50.33	996.1	E874.5	T82.5		15.50.30	Equipment problem during cardiac catheterisation,
Separation of guide wire at dock site during cardiovascular catheterisation,	to 1	15.51.26	996.1	E874.5	T82.5		15.50.60	Complication involving device implantation,
Burst catheter mounted balloon during cardiovascular catheterisation,	to 1	15.50.34	996.1	E874.5	T82.5		15.50.30	Equipment problem during cardiac catheterisation,
Burst catheter mounted balloon with air embolus during cardiovascular catheterisation,	to 1	15.50.63	996.1	E874.5	T82.5		15.50.30	Equipment problem during cardiac catheterisation,
Burst catheter mounted balloon with fragment embolus during cardiovascular catheterisation,	to 1	15.50.64	996.1	E874.5	T82.5		15.50.30	Equipment problem during cardiac catheterisation,
End hole balloon broken during cardiovascular catheterisation,	to 1	15.51.25	996.1	E874.5	T82.5		15.50.30	Equipment problem during cardiac catheterisation,
Circumferential transcatheter balloon rupture during cardiovascular catheterisation,	to 1	15.51.33	996.1	E874.5	T82.5		15.50.30	Equipment problem during cardiac catheterisation,
Guide wire broken during cardiovascular catheterisation,	to 1	15.50.35	996.1	E874.5	T82.5		15.50.30	Equipment problem during cardiac catheterisation,
Device failure due to problem intrinsic to device,	to 1	15.51.45	996.1	E874.5	T82.5		15.50.30	Equipment problem during cardiac catheterisation,
Device malfunction without device failure,	to 1	15.51.46	996.1	E874.5	T82.5		15.50.30	Equipment problem during cardiac catheterisation,
Device mechanism failure during cardiovascular catheterisation,	to 1	15.51.38	996.1	E874.5	T82.5		15.50.30	Equipment problem during cardiac catheterisation,
Device delivery mechanism failure during cardiovascular catheterisation,	to 1	15.51.41	996.1	E874.5	T82.5		15.50.30	Equipment problem during cardiac catheterisation,
Imaging equipment problem during cardiac catheterisation,	to 1	15.50.62	996.1	E874.5	T82.5		15.50.30	Equipment problem during cardiac catheterisation,
Post-device implantation requirement for open repair,	to 1650	15.50.55	996.1	E874.5	T82.5		15.50.60	Complication involving device implantation,
Kinking of delivery sheath during cardiovascular catheterisation,	to 1	15.52.11	996.1	E874.5	T82.5		15.50.30	Equipment problem during cardiac catheterisation,
Kinking of delivery sheath leading to abandonment of cardiovascular catheterisation procedure,	to 1	15.52.12	996.1	E874.5	T82.5		15.50.30	Equipment problem during cardiac catheterisation,
2622 Complications involving transluminal device implantation								
Complication involving device implantation,	to 1660	15.50.60	996.1	E874.5	T82.5		15.50.60	Complication involving device implantation,
Complications involving transluminally implanted device malposition	to 2623	not relevant						
Inability to detach coil or device at catheterisation,	to 1660	15.50.36	996.1	E874.5	T82.5		15.50.60	Complication involving device implantation,
Inadvertent release of device into circulation,	to 1660	15.50.44	996.7	E874.5	T82.8		15.50.60	Complication involving device implantation,
Embolisation of catheter introduced device,	to 1660	15.50.37	996.7	E871.6	T82.8		15.50.60	Complication involving device implantation,
Occluder device embolisation and retrieval during same procedure,	to 1660	15.51.37	996.7	E874.5	T82.8		15.50.60	Complication involving device implantation,
Post-device implantation requirement for open repair,	to 1650	15.50.55	996.1	E874.5	T82.5		15.50.60	Complication involving device implantation,
Mechanical haemolysis due to transcatheter implanted device,	to 1660	15.02.12	283.1	996.7	D59.4	T82.8	15.02.07	Postprocedural haemolysis,
Migration of implanted closure device,	to 1660	15.50.45	996.1	E874.5	T82.5		15.50.60	Complication involving device implantation,
Breakage of closure device,	to 1660	15.52.13	996.1	E874.5	T82.5		15.50.60	Complication involving device implantation,
Implantation of oversized closure device,	to 1660	15.50.46	996.1	E874.5	T82.5		15.50.60	Complication involving device implantation,
Implanted closure device strut fracture,	to 1660	15.50.48	996.1	E874.5	T82.5		15.50.60	Complication involving device implantation,
Distortion or cobra deformation of device on attempted transcatheter implantation,	to 1660	15.50.49	996.1	E874.5	T82.5		15.50.60	Complication involving device implantation,
Distortion of cardiac structure by implanted transcatheter device,	to 3205	15.50.50	996.1	E874.5	T82.5		15.50.60	Complication involving device implantation,
Obstruction of cardiac structure by implanted transcatheter device,	to 3205	15.50.51	996.1	E874.5	T82.5		15.50.60	Complication involving device implantation,
Erosion of or into cardiac structure by implanted transcatheter device,	to 3205	15.50.52	996.1	E874.5	T82.5		15.50.60	Complication involving device implantation,
Coronary arterial compression following transluminal device implantation,	to 467	15.50.61	996.1	E874.5	T82.5		15.41.00	Postprocedural coronary arterial complication,
Thrombosis of implanted device,	to 1660	15.50.67	996.1	E874.5	T82.5		15.50.60	Complication involving device implantation,
Infection of device,	to 1660	15.51.23	996.1		T82.7		15.50.60	Complication involving device implantation,
Allergic reaction to device,	to 1660	15.51.26	996.1	E874.5	T82.5		15.50.60	Complication involving device implantation,
Requirement for removal of device,	to 1660	15.51.20	996.1		T82.9		15.50.60	Complication involving device implantation,
Requirement for removal of device: transcatheter,	to 1660	15.51.21	996.1		T82.9		15.50.60	Complication involving device implantation,
Requirement for removal of device: surgical,	to 1660	15.51.22	996.1		T82.9		15.50.60	Complication involving device implantation,
2623 Complications involving transluminal implanted device malposition								
Malposition of catheter introduced device,	to 1660	15.52.20	996.1	E874.5	T82.5		15.50.60	Complication involving device implantation,
Implantation of malpositioned closure device,	to 1660	15.50.47	996.1	E874.5	T82.5		15.50.60	Complication involving device implantation,
Malposition of ductal occluder device,	to 1660	15.52.14	996.1					

Stent underdilation,	to 1650	15.52.02	996.7	E874.5	T82.8	15.50.70	Complication involving stent,	
Stent malposition,	to 1650	15.50.74	996.7	E874.5	T82.8	15.50.70	Complication involving stent,	
Stent malposition requiring removal or repositioning,	to 1650	15.50.75	996.7	E874.5	T82.8	15.50.70	Complication involving stent,	
Migration of implanted stent,	to 1650	15.50.38	996.1	E874.5	T82.5	15.50.70	Complication involving stent,	
Stent left expanded in unplanned site after migration or embolisation,	to 1650	15.50.91	996.1	E874.5	T82.5	15.50.70	Complication involving stent,	
Stent fracture,	to 2625	15.50.76	996.1	E874.5	T82.5	15.50.70	Complication involving stent,	
Stent fracture during implantation,	to 2625	15.50.57	996.1	E874.5	T82.5	15.50.70	Complication involving stent,	
Stent fracture following implantation,	to 2625	15.50.53	996.1	E874.5	T82.5	15.50.70	Complication involving stent,	
Stent fracture during redilation,	to 2625	15.50.92	996.1	E874.5	T82.5	15.50.70	Complication involving stent,	
Stent thrombosis,	to 2625	15.50.93	996.1	E874.5	T82.5	15.50.70	Complication involving stent,	
Post-stent implantation requirement for open repair,	to 1650	15.50.54	996.1	E874.5	T82.5	15.50.70	Complication involving stent,	
Indifferent 'jailing' of vessel with implanted stent,	to 3205	15.50.56	996.1	E874.5	T82.5	15.50.70	Complication involving stent,	
Embolisation of stent,	to 1650	15.50.71	996.7	E874.5	T82.8	15.50.70	Complication involving stent,	
Right bronchial compression due to stent,	to 1650	15.50.72	996.7	519.8	T82.8	J95.8	15.50.70	Complication involving stent,
Left bronchial compression due to stent,	to 1650	15.50.73	996.7	519.8	T82.8	J95.8	15.50.70	Complication involving stent,
Coronary arterial compression following stent implantation,	to 467	15.50.77	996.1	E874.5	T82.5	15.41.00	Postprocedural coronary arterial complication,	
Rupture of conduit following stent implantation,	to 2240	15.50.78	996.7	E874.5	T82.8	15.50.70	Complication involving stent,	
Rupture of vessel following stent implantation,	to 3205	15.50.68	996.7	E874.5	T82.8	15.50.70	Complication involving stent,	
Endoarteritis involving stent,	to 1650	15.50.79	421.9	E874.5	03.0	T82.8	10.06.01	Infective endocarditis,
Neointimal proliferation within implanted stent,	to 1650	15.50.95	996.7	E874.5	T82.8	15.50.70	Complication involving stent,	
Restenosis of vessel following stent implantation,	to 1650	15.50.69	996.7	E874.5	T82.8	15.50.70	Complication involving stent,	
Endoleak following aortic aneurysm stent implantation (incomplete sealing of aneurysm),	to 2132	15.37.72	E874.5	T82.8	15.50.00	Cardiac catheterisation complication,		
Postprocedural aortic aneurysm following stent implantation,	to 976	15.37.81	996.1	E874.5	T82.5	15.50.70	Complication involving stent,	
Tricuspid valvar chord entrapment by transcatheter device,	to 1	15.11.12	429.5	E878.8	01.1	Y83.8	15.11.00	Postprocedural tricuspid valvar complication,
Mitral valvar chord entrapment by transcatheter device,	to 1	15.12.10	429.5	E878.8	01.1	Y83.8	15.12.00	Postprocedural mitral valvar complication,

2625 @ Stent fracture qualifiers

- single fracture,	to 1650	Q1.58.01					not relevant
- multiple fractures,	to 1650	Q1.58.02					not relevant
- causing stent dislodgement,	to 1650	Q1.58.03					not relevant
- causing stent embolisation,	to 1650	Q1.58.04					not relevant
- causing stent distortion,	to 1650	Q1.58.05					not relevant
- causing vessel stenosis,	to 1650	Q1.58.06					not relevant
no entry	to 1650	not relevant					not relevant

2626 @ Complications following transluminal coil implantation

Complication involving transcatheter coil implantation,	to 1660	15.51.24	996.1	E874.5	T82.5	15.50.60	Complication involving device implantation,
Embolisation of catheter introduced coil,	to 1660	15.50.65	996.7	E871.6	T82.8	15.50.60	Complication involving device implantation,
Migration (disc) implanted coil,	to 1660	15.50.66	996.1	E874.5	T82.5	15.50.60	Complication involving device implantation,
Malposition of catheter introduced coil,	to 1660	15.52.21	996.1	E874.5	T82.5	15.50.60	Complication involving device implantation,
Inability to detach coil or device at catheterisation,	to 1660	15.50.36	996.1	E874.5	T82.5	15.50.60	Complication involving device implantation,
Coil embolisation and retrieval during same procedure,	to 1660	15.51.28	996.1	E874.5	T82.5	15.50.60	Complication involving device implantation,
Coil embolisation and retrieval during different procedure,	to 1660	15.51.29	996.1	E874.5	T82.5	15.50.60	Complication involving device implantation,
Inability to detach coil from delivery cable,	to 1660	15.51.30	996.1	E874.5	T82.5	15.50.60	Complication involving device implantation,
Mechanical haemolysis due to transcatheter implanted coil,	to 1660	15.51.31	996.1	E874.5	T82.5	15.50.60	Complication involving device implantation,
Infection of coil,	to 1660	15.51.42	996.1	T82.7	15.50.60	Complication involving device implantation,	
Coil dislodgement during procedural manipulation,	to 1660	15.51.43	996.1	E874.5	T82.5	15.50.60	Complication involving device implantation,
Coil failure due to problem intrinsic to the coil,	to 1660	15.51.44	996.1	E874.5	T82.5	15.50.60	Complication involving device implantation,

2680 Specific complications following fetal intervention

Fetal intervention complication,	to 1	15.50.80				15.50.80	Fetal intervention complication,
Fetal procedure related complication,	to 1	15.50.94				15.50.80	Fetal intervention complication,
Preterm delivery immediately following fetal intervention,	to 1	15.50.81				15.50.81	Preterm delivery immediately following fetal intervention,
Preterm delivery following within 2 weeks of fetal intervention,	to 1	15.50.82				15.50.81	Preterm delivery immediately following fetal intervention,
Failed fetal procedure,	to 1	15.50.83				15.50.83	Failed fetal procedure,
Failed fetal transcatheter valve dilation,	to 2880	15.50.84				15.50.83	Failed fetal procedure,
Failed fetal transcatheter atrial septostomy,	to 2880	15.50.85				15.50.83	Failed fetal procedure,
Fetal death following fetal cardiac procedure,	to 1	15.50.86				15.50.86	Fetal death following fetal cardiac procedure,
Post fetal procedure arrhythmia,	to 800	15.50.87				15.50.80	Fetal intervention complication,
Post fetal procedure pericardial effusion,	to 800	15.50.88				15.50.80	Fetal intervention complication,
Post fetal procedure pleural effusion,	to 800	15.50.89				15.50.80	Fetal intervention complication,
Post fetal procedure requirement for fetal resuscitation,	to 800	15.50.90				15.50.80	Fetal intervention complication,

End of branch

2700 Complications following thoracic noncardiac procedures

Complications following respiratory tract stent implantation	to 2710	not relevant					
Postprocedural mediastinal bleeding,	to 1915	16.49.01	998.1	T81.0	15.02.00		Postprocedural haemorrhage,

2710 Complications following respiratory tract stent implantation

Complication following respiratory tract stent implantation,	to 1	16.50.20	519.8	J95.8	16.50.20	Complication following respiratory tract stent implantation,
Bronchial stent related complication,	to 1	16.50.00	519.8	J95.8	16.50.20	Complication following respiratory tract stent implantation,
Bronchial stent erosion,	to 1	16.50.01	519.8	J95.8	16.50.20	Complication following respiratory tract stent implantation,
Bronchial stent erosion into vascular structure,	to 1	16.50.02	519.8	J95.8	16.50.20	Complication following respiratory tract stent implantation,
Bronchial stent erosion into aorta,	to 1	16.50.03	519.8	J95.8	16.50.20	Complication following respiratory tract stent implantation,
Bronchial stent erosion into innominate artery,	to 1	16.50.04	519.8	J95.8	16.50.20	Complication following respiratory tract stent implantation,
Bronchial stent erosion into pulmonary artery,	to 1	16.50.05	519.8	J95.8	16.50.20	Complication following respiratory tract stent implantation,
Bronchial stent migration,	to 1	16.50.06	519.8	J95.8	16.50.20	Complication following respiratory tract stent implantation,
Bronchial stent in-growth,	to 1	16.50.07	519.8	J95.8	16.50.20	Complication following respiratory tract stent implantation,
Tracheal stent related complication,	to 4069	16.50.10	519.8	J95.8	16.50.20	Complication following respiratory tract stent implantation,
Tracheal stent related complication: stent erosion,	to 4069	16.50.11	519.8	J95.8	16.50.20	Complication following respiratory tract stent implantation,
Tracheal stent related complication: stent erosion into oesophagus,	to 4069	16.50.12	519.8	J95.8	16.50.20	Complication following respiratory tract stent implantation,
Tracheal stent related complication: stent erosion into vascular structure,	to 4069	16.50.13	519.8	J95.8	16.50.20	Complication following respiratory tract stent implantation,
Tracheal stent related complication: stent erosion into aorta,	to 4069	16.50.14	519.8	J95.8	16.50.20	Complication following respiratory tract stent implantation,
Tracheal stent related complication: stent erosion into innominate artery,	to 4069	16.50.15	519.8	J95.8	16.50.20	Complication following respiratory tract stent implantation,
Tracheal stent related complication: stent erosion into pulmonary artery,	to 4069	16.50.16	519.8	J95.8	16.50.20	Complication following respiratory tract stent implantation,
Tracheal stent related complication: stent in-growth,	to 4069	16.50.17	519.8	J95.8	16.50.20	Complication following respiratory tract stent implantation,
Tracheal stent related complication: stent migration,	to 4069	16.50.18	519.8	J95.8	16.50.20	Complication following respiratory tract stent implantation,

End of branch

2790 Vascular access and line complications

Vascular line (access) related complication,	to 2812	15.88.00	E876.9	Y65.8	15.88.00	Vascular line (access) related complication,
Arterial line complications	to 2791	not relevant			15.88.00	Vascular line (access) related complication,
Venous line (access) complications	to 2792	not relevant			15.88.00	Vascular line (access) related complication,
Line complication,	to 2797	15.88.01	E876.9	Y65.8	15.88.00	Vascular line (access) related complication,
Periprocedural vascular dissection,	to 977	15.88.21	E876.9	Y65.8	15.88.00	Vascular line (access) related complication,
Postprocedural vascular aneurysm formation,	to 976	15.88.22	E876.9	Y65.8	15.88.00	Vascular line (access) related complication,
Insertion of vascular line failure,	to 2812	15.88.02	E876.4	Y65.4	15.88.00	Vascular line (access) related complication,
Insertion of vascular line failure: after 1 hour of attempting,	to 2812	15.88.03	E876.4	Y65.4	15.88.00	Vascular line (access) related complication,
Insertion of vascular line failure: complete failure,	to 2812	15.88.04	E876.4	Y65.4	15.88.00	Vascular line (access) related complication,
Vascular line displacement,	to 2797	15.88.05	E876.9	Y65.8	15.88.00	Vascular line (access) related complication,
Vascular line displacement: central venous,	to 2797	15.88.07	E876.9	Y65.8	15.88.00	Vascular line (access) related complication,
Vascular line displacement: peripheral,	to 2797	15.88.08	E876.9	Y65.8	15.88.00	Vascular line (access) related complication,
Vascular line falling out,	to 2797	15.88.09	E876.9	Y65.8	15.88.00	Vascular line (access) related complication,
Vascular line falling out: central venous,	to 2797	15.88.11	E876.9	Y65.8	15.88.00	Vascular line (access) related complication,
Vascular line falling out: peripheral,	to 2797	15.88.12	E876.9	Y65.8	15.88.00	Vascular line (access) related complication,
Bleeding on removal of vascular access line,	to 3200	15.88.23	E876.9	Y65.8	15.88.00	Vascular line (access) related complication,
Arteriovenous fistula formation at site of vascular access,	to 3200	15.88.24	E876.9	Y65.8	15.88.00	Vascular line (access) related complication,
Interosseous access complication,	to 2910	15.88.25	E876.9	Y65.8	15.88.00	Vascular line (access) related complication,
Failure to achieve interosseous access,	to 2910	15.88.20	E876.4	Y65.4	15.88.00	Vascular line (access) related complication,

2791 Arterial line complications

Arterial line complication,	to 2797	15.88.13	E876.9	Y65.8	15.88.00	Vascular line (access) related complication,
Arterial line infection: suspected,	to 2797	15.88.14	996.6	T80.2	15.88.00	Vascular line (access) related complication,
Arterial line infection: documented,	to 2797	15.88.15	996.6	T80.2	15.88.00	Vascular line (access) related complication,
Insertion of arterial line failure,	to 2812	15.88.19	E876.4	Y65.4	15.88.00	Vascular line (access) related complication,
Transhoracic aortic line complication,	to 2910	15.88.16	E876.9	Y65.8	15.88.00	Vascular line (access) related complication,
Transhoracic pulmonary artery or right ventricular line complication,	to 2910	15.88.17	E876.9	Y65.8	15.88.00	Vascular line (access) related complication,
Transvascular pulmonary artery or right ventricular line complication (Swann-Ganz),	to 2910	15.88.18	E876.9	Y65.8	15.88.00	Vascular line (access) related complication,
Vascular line displacement: arterial,	to 2797	15.88.06	E876.9	Y65.8	15.88.00	Vascular line (access) related complication,
Vascular line falling out: arterial,	to 2797	15.88.10	E876.9	Y65.8	15.88.00	Vascular line (access) related complication,

2792 Venous line (access) complications

Central venous line (access) complication,	to 2797	15.88.30	E876.9	Y65.8	15.88.00	Vascular line (access) related complication,
Central venous line infection: suspected,	to 2797	15.88.31	996.6	T80.2	15.88.00	Vascular line (access) related complication,
Central venous line infection: documented,	to 2797	15.88.32	996.6	T80.2	15.88.00	Vascular line (access) related complication,
Peripherally inserted central venous line complication,	to 2910	15.88.33	E876.9	Y65.8	15.88.00	Vascular line (access) related complication,
Transhepatic line complication,	to 2910	15.88.34	E876.9	Y65.8	15.88.00	Vascular line (access) related complication,
Transhoracic right atrial line complication,	to 2910	15.88.35	E876.9	Y65.8	15.88.00	Vascular line (access) related complication,
Transhoracic left atrial line complication,	to 2910	15.88.36	E876.9	Y65.8	15.88.00	Vascular line (access) related complication,
Insertion of central venous line (access) failure,	to 2797	15.88.37	E876.4	Y65.4	15.88.00	Vascular line (access) related complication,

Arterial puncture during attempted central venous access,	to 1	15.88.38	E870.3	Y60.6	15.88.00	Vascular line (access) related complication,
Arterial catheter placement during attempted central venous access,	to 1	15.88.39	E870.3	Y60.6	15.88.00	Vascular line (access) related complication,
Carotid arterial puncture during attempted internal jugular vein access,	to 1	15.88.40	E870.3	Y60.6	15.88.00	Vascular line (access) related complication,
Arterial catheter placement during attempted internal jugular vein access,	to 1	15.88.41	E870.3	Y60.6	15.88.00	Vascular line (access) related complication,
Femoral arterial puncture during attempted femoral vein access,	to 1	15.88.42	E870.3	Y60.6	15.88.00	Vascular line (access) related complication,
Arterial catheter placement during attempted femoral vein access,	to 1	15.88.43	E870.3	Y60.6	15.88.00	Vascular line (access) related complication,
Subclavian arterial puncture during attempted subclavian vein access,	to 1	15.88.44	E870.3	Y60.6	15.88.00	Vascular line (access) related complication,
Arterial catheter placement during attempted subclavian vein access,	to 1	15.88.45	E870.3	Y60.6	15.88.00	Vascular line (access) related complication,
Peripheral venous line complication,	to 2910	15.88.46	E876.9	Y65.8	15.88.00	Vascular line (access) related complication,
Peripheral venous line suspected infection,	to 2797	15.88.47	996.6	T80.2	15.88.00	Vascular line (access) related complication,
Peripheral venous line documented infection,	to 2797	15.88.48	996.6	T80.2	15.88.00	Vascular line (access) related complication,
Failure to insert peripheral venous line,	to 2910	15.88.49	E876.4	Y65.4	15.88.00	Vascular line (access) related complication,

2797 @ Vascular line outcome complication qualifiers

- requiring line repositioning,	to 2812	Q1.89.01				not relevant
- not requiring line repositioning,	to 2812	Q1.89.02				not relevant
- requiring line replacement,	to 2812	Q1.89.03				not relevant
- not requiring line replacement,	to 2812	Q1.89.04				not relevant
Specific vascular site involved in complication	to 3200	not relevant				
no entry	to 2812	not relevant				

End of branch

2800 @ Procedural complication qualifiers

Scale for complication severity grading - qualifiers	to 2802	not relevant				
Attributability of complications - qualifiers	to 2805	not relevant				
General procedural complication qualifiers	to 2810	not relevant				
Qualifiers referring to the causes and preventability of procedural complications	to 2811	not relevant				
Qualifiers referring to the timing of procedural complications	to 2812	not relevant				
Qualifiers related to outcomes following complications	to 2813	not relevant				
Postprocedural complication procedural details - qualifiers	to 2850	not relevant				
Postprocedural retained foreign body qualifiers	to 2870	not relevant				
Postinterventional catheterisation complications - qualifiers	to 2880	not relevant				
Postsurgical wound complication qualifiers	to 2900	not relevant				
Severity & type of obstruction, stenosis or regurgitation of valve, outflow tract, artery, vein or conduit - qualifiers	to 960	not relevant				
Functional characteristics of septal defects - qualifiers	to 967	not relevant				
Non-specific generic qualifiers	to 952	not relevant				

2802 @ Scale for complication severity grading - qualifiers

- Complication severity level 1: no adverse effect,	to 1	Q1.09.80				not relevant
- Complication severity level 2: minor,	to 1	Q1.09.81				not relevant
- Complication severity level 3: moderate,	to 1	Q1.09.82				not relevant
- Complication severity level 4: major,	to 1	Q1.09.83				not relevant
- Complication severity level 5: catastrophic,	to 1	Q1.09.84				not relevant
- Complication severity level: not determined,	to 1	Q1.09.85				not relevant
no entry	to 1	not relevant				

2805 @ Attributability of complications - qualifiers

- surgery related complication,	to 2811	Q1.98.01				not relevant
- catheterisation related complication,	to 2811	Q1.98.02				not relevant
- complication not related to cardiovascular catheterisation procedure,	to 2811	Q1.98.21				not relevant
- complication related to pre-existing condition,	to 2811	Q1.98.22				not relevant
- ablation related complication,	to 2811	Q1.98.03				not relevant
- airway related complication,	to 2811	Q1.98.04				not relevant
- anaesthesia related complication,	to 2811	Q1.98.19				not relevant
- angioplasty related complication,	to 2811	Q1.98.05				not relevant
- arrhythmia related complication,	to 2811	Q1.98.06				not relevant
- biopsy related complication,	to 2811	Q1.98.07				not relevant
- cardiopulmonary bypass related complication,	to 2811	Q1.98.08				not relevant
- catheter manipulation related complication,	to 2811	Q1.98.18				not relevant
- coil related complication,	to 2811	Q1.98.09				not relevant
- device related complication,	to 2811	Q1.98.10				not relevant
- dilation procedure related complication,	to 2811	Q1.98.20				not relevant
- infection related complication,	to 2811	Q1.98.11				not relevant
- mechanical support related complication,	to 2811	Q1.98.12				not relevant
- myocardial perfusion related complication,	to 2811	Q1.98.13				not relevant
- sedation related complication,	to 2811	Q1.98.14				not relevant
- stent related complication,	to 2811	Q1.98.15				not relevant
- valvuloplasty related complication,	to 2811	Q1.98.16				not relevant
- vascular access related complication,	to 2811	Q1.98.17				not relevant
no entry	to 2811	not relevant				

2810 @ General procedural complication qualifiers

- periclosure,	to 967	Q1.91.21				not relevant
- peripatch,	to 967	Q1.91.07				not relevant
- peri intraventricular tunnel,	to 967	Q1.91.22				not relevant
- peridevice,	to 967	Q1.91.08				not relevant
- through device,	to 967	Q1.91.09				not relevant
- perisurgical closure,	to 967	Q1.91.10				not relevant
- additional defect,	to 967	Q1.91.11				not relevant
- new onset,	to 967	Q1.40.31				not relevant
- post coil placement,	to 1	Q1.91.12				not relevant
- post device placement,	to 1	Q1.91.13				not relevant
- post ligation,	to 1	Q1.91.14				not relevant
- post clip deployment,	to 1	Q1.91.15				not relevant
- post division,	to 1	Q1.91.16				not relevant
- post stentotomy,	to 1	Q1.91.17				not relevant
- post thoracotomy,	to 1	Q1.91.18				not relevant
- post thoracoscopy,	to 1	Q1.91.19				not relevant
- conversion to open procedure,	to 1	Q1.91.23				not relevant
- prolonged cross clamp time,	to 1	Q1.91.24				not relevant
- videoscopic port access failure,	to 1	Q1.91.25				not relevant
- at vascular access site,	to 1	Q1.91.48				not relevant
- not at vascular access site,	to 1	Q1.91.49				not relevant
- complication unknown,	to 1	Q1.91.26				not relevant
- complication unknown or unspecified,	to 1	Q1.91.27				not relevant
- complication unspecified,	to 1	Q1.91.28				not relevant
no entry	to 1	not relevant				

2811 @ Qualifiers referring to the causes and preventability of procedural complications

- intentional,	to 1	Q1.91.01				not relevant
- inadvertent,	to 1	Q1.91.02				not relevant
- iatrogenic,	to 1	Q1.90.53				not relevant
- iatrogenic intentional,	to 1	Q1.91.03				not relevant
- iatrogenic inadvertent,	to 1	Q1.91.04				not relevant
- iatrogenic postsurgery,	to 1	Q1.91.05				not relevant
- iatrogenic postcatheter,	to 1	Q1.91.06				not relevant
- preventable,	to 1	Q1.91.29				not relevant
- possibly preventable,	to 1	Q1.91.30				not relevant
- not preventable,	to 1	Q1.91.31				not relevant
- adverse event,	to 1	Q1.91.32				not relevant
- medical error,	to 1	Q1.91.35				not relevant
- near miss,	to 1	Q1.91.36				not relevant
no entry	to 1	not relevant				

2812 @ Qualifiers referring to the timing of procedural complications

Qualifiers related to timing of event with respect to cardiovascular catheterisation procedure	to 2816	not relevant				
- preprocedural,	to 1	Q1.90.63				not relevant
- preoperative,	to 1	Q1.91.70				not relevant
- during procedure (intraprocedural),	to 1	Q1.91.61				not relevant
- intraoperative,	to 1	Q1.91.71				not relevant
- postprocedural,	to 1	Q1.90.64				not relevant
- postoperative,	to 1	Q1.91.72				not relevant
- procedural (during & postprocedural),	to 1	Q1.91.73				not relevant
- during or after cardiovascular procedure,	to 1	Q1.91.78				not relevant
- operative (during & postoperative),	to 1	Q1.91.74				not relevant
- during or after cardiac surgery,	to 1	Q1.91.79				not relevant
- during period of anaesthetic care,	to 1	Q1.91.75				not relevant
- during induction of anaesthesia,	to 1	Q1.91.76				not relevant
- status: postsurgical procedure,	to 1	Q1.90.67				not relevant
- during vascular access,	to 1	Q1.91.92				not relevant
- during patient transportation,	to 1	Q1.91.93				not relevant
- during transfer to operating room bed,	to 1	Q1.91.94				not relevant
- during transfer from operating room bed,	to 1	Q1.91.95				not relevant
- during first postprocedural 24 hours,	to 1	Q1.91.77				not relevant
- after first postprocedural 24 hours,	to 1	Q1.91.91				not relevant
- less than or equal to 30 days post procedure,	to 1	Q1.91.96				not relevant

- greater than 30 days or less than 1 year post procedure,	to 1	Q1.91.97			not relevant
- greater than or equal to 1 year post procedure,	to 1	Q1.91.98			not relevant
Specific structure or vessel involved in complication	to 3200				not relevant
Outcomes following respiratory failure or insufficiency	to 4006				not relevant
no entry					

2813 @ Qualifiers related to outcomes following complications

- leading to abandonment of procedure,	to 1	Q1.00.54			not relevant
- conversion to open procedure,	to 1	Q1.91.23			not relevant
- complication associated with harm,	to 1	Q1.91.33			not relevant
- complication not associated with harm,	to 1	Q1.91.34			not relevant
- not requiring surgical intervention,	to 1	Q1.66.71			not relevant
- transient: no therapy required,	to 1	Q1.92.45			not relevant
- requiring treatment,	to 1	Q1.91.90			not relevant
- requiring treatment in catheter laboratory,	to 1	Q1.91.40			not relevant
- requiring surgical intervention,	to 1	Q1.66.72			not relevant
- requiring reintervention,	to 1	Q1.91.37			not relevant
- requiring reintervention during same admission,	to 1	Q1.91.38			not relevant
- requiring reintervention during same admission or within 30 days of original procedure,	to 1	Q1.91.39			not relevant
- requiring reoperation,	to 1	Q1.83.10			not relevant
- requiring reoperation during same admission,	to 1	Q1.83.11			not relevant
- requiring reoperation during same admission or within 30 days of original procedure,	to 1	Q1.92.40			not relevant
- requiring recatheterisation,	to 1	Q1.92.41			not relevant
- requiring recatheterisation during same admission,	to 1	Q1.92.42			not relevant
- requiring recatheterisation during same admission or within 30 days of original procedure,	to 1	Q1.92.43			not relevant
- resolved with medical management (without invasive therapy),	to 1	Q1.93.05			not relevant
- resolved with invasive therapy,	to 1	Q1.92.44			not relevant
- requiring covered stent,	to 1	Q1.91.41			not relevant
- resolved,	to 1	Q1.90.55			not relevant
- resolved spontaneously,	to 1	Q1.90.91			not relevant
- requiring supplemental oxygen at discharge,	to 1	Q1.92.28			not relevant
- requiring supplemental oxygen at discharge using nasal cannulae,	to 1	Q1.92.29			not relevant
no entry	to 1				not relevant

2816 @ Qualifiers related to timing of event with respect to cardiovascular catheterisation procedure

- posttranscatheter procedure,	to 1	Q1.91.20			not relevant
- before entering catheterisation lab,	to 1	Q1.98.40			not relevant
- in catheterisation lab,	to 1	Q1.98.41			not relevant
- in catheterisation lab: prior to obtaining access,	to 1	Q1.98.42			not relevant
- in catheterisation lab: after sheaths inserted,	to 1	Q1.98.43			not relevant
- in catheterisation lab: after sheaths removed or case completed,	to 1	Q1.98.44			not relevant
- during cardiovascular catheterisation procedure,	to 1	Q1.98.31			not relevant
- during cardiovascular catheterisation procedure: angiography,	to 1	Q1.98.32			not relevant
- during cardiovascular catheterisation procedure: balloon inflation,	to 1	Q1.98.33			not relevant
- during cardiovascular catheterisation procedure: stent deployment,	to 1	Q1.98.34			not relevant
- during cardiovascular catheterisation procedure: stent dilation,	to 1	Q1.98.35			not relevant
- during cardiovascular catheterisation procedure: device release,	to 1	Q1.98.36			not relevant
- during cardiovascular catheterisation procedure: retrieval of embolised release,	to 1	Q1.98.37			not relevant
- during cardiovascular catheterisation procedure: wire manipulation,	to 1	Q1.98.39			not relevant
- during catheterisation sheath exchange,	to 1	Q1.98.38			not relevant
- new onset,	to 1	Q1.40.31			not relevant
- after catheterisation procedure before discharge,	to 1	Q1.98.45			not relevant
- after catheterisation procedure in recovery room,	to 1	Q1.98.46			not relevant
- after catheterisation procedure in intensive care unit,	to 1	Q1.98.47			not relevant
- after catheterisation procedure on general ward,	to 1	Q1.98.48			not relevant
- after discharge from hospital following cardiovascular catheterisation procedure,	to 1	Q1.98.49			not relevant
- during or after catheterisation procedure,	to 1	Q1.98.50			not relevant
Specific structure or vessel involved in complication	to 3200				not relevant
no entry	to 1				not relevant

2850 @ Postprocedural complication procedural details - qualifiers

- status: postsurgical procedure,	to 1	Q1.90.67			not relevant
- posttranscatheter procedure,	to 1	Q1.91.20			not relevant
- post central line insertion,	to 1	Q1.91.42			not relevant
- post implantable cardioverter & defibrillator (ICD) lead insertion,	to 1	Q1.91.43			not relevant
- post pacemaker lead insertion,	to 1	Q1.91.44			not relevant
- post chest tube insertion,	to 1	Q1.91.45			not relevant
- related to vascular access procedure,	to 1	Q1.91.46			not relevant
- not related to vascular access procedure,	to 1	Q1.91.47			not relevant
no entry	to 1				not relevant

2870 @ Post procedural retained foreign body qualifiers

- catheter,	to 2871	Q1.93.01			not relevant
- intracardiac catheter,	to 2871	Q1.93.02			not relevant
- coil,	to 2871	Q1.93.03			not relevant
- chest tube,	to 2871	Q1.93.17			not relevant
- prosthetic device,	to 2871	Q1.93.04			not relevant
- instrument,	to 2871	Q1.93.05			not relevant
- swab,	to 2871	Q1.93.06			not relevant
- needle,	to 2871	Q1.93.07			not relevant
- sponge,	to 2871	Q1.93.08			not relevant
- pacing wire,	to 2871	Q1.93.18			not relevant
- temporary pacing wire,	to 2871	Q1.93.09			not relevant
- pacing wire causing irritation,	to 2871	Q1.93.10			not relevant
- sternal wire,	to 2871	Q1.93.11			not relevant
- sternal wire causing irritation,	to 2871	Q1.93.12			not relevant
- laparotomy absorbent cloth (lap),	to 2871	Q1.93.13			not relevant
- transthoracic line,	to 2871	Q1.93.16			not relevant
- unspecified foreign body,	to 2871	Q1.93.14			not relevant
- unknown foreign body,	to 2871	Q1.93.15			not relevant
- characteristics unknown or unspecified,	to 2871	Q1.90.83			not relevant
no entry	to 2871				not relevant

2871 @ Post procedural retained foreign body outcome qualifiers

- removed surgically,	to 1	Q1.93.30			not relevant
- removed surgically during same admission,	to 1	Q1.93.31			not relevant
- left in situ,	to 1	Q1.93.32			not relevant
no entry	to 1				not relevant

2880 @ Post interventional catheterisation complications - qualifiers

- failed device deployment,	to 1660	Q1.93.51			not relevant
- unable to cross stenosis,	to 1660	Q1.93.52			not relevant
- unable to cross valve,	to 1660	Q1.93.53			not relevant
- unable to cross interatrial communication,	to 1660	Q1.93.54			not relevant
- unable to cross arterial duct,	to 1660	Q1.93.55			not relevant
- unable to cross ventricular septal defect (VSD),	to 1660	Q1.93.56			not relevant
- characteristics unknown or unspecified,	to 1660	Q1.90.83			not relevant
no entry	to 1660				not relevant

2900 @ Postsurgical wound complication qualifiers

- bone dehiscence,	to 3330	Q1.94.01			not relevant
- skin and bone dehiscence,	to 3330	Q1.94.02			not relevant
- bone dehiscence with skin intact,	to 3330	Q1.94.03			not relevant
- skin dehiscence with bone intact,	to 3330	Q1.94.04			not relevant
- skin thinned but intact,	to 3330	Q1.94.05			not relevant
- skin not intact,	to 3330	Q1.94.06			not relevant
- characteristics unknown or unspecified,	to 3330	Q1.90.83			not relevant
Consequences of pacemaker device wound complications - qualifiers	to 916				not relevant
no entry	to 3330				not relevant

2910 @ Specific acquired & postprocedural vessel-chamber complications - qualifiers

- abscess at cannulation site,	to 627	Q1.06.41	998.5	T81.4	not relevant
- aneurysm,	to 600	Q1.06.54	414.1	I25.3	not relevant
- dissection,	to 600	Q1.06.38	459.9	I99	not relevant
- distortion,	to 600	Q1.06.34			not relevant
- avulsion,	to 600	Q1.06.62	879.8	T14.7	not relevant
- extravasation burn at cannulation site,	to 1	Q1.06.42	942	T21.0	not relevant
- failure of insertion,	to 1	Q1.06.59			not relevant
- failure of insertion after 1 hour of attempts,	to 1	Q1.06.60			not relevant
- failure of insertion: complete failure,	to 1	Q1.06.61			not relevant
- false aneurysm,	to 1	Q1.06.39	414.1	I25.3	not relevant
- formation of arteriovenous fistula,	to 1	Q1.06.56			not relevant
- formation of lymph fistula,	to 1	Q1.06.53			not relevant
- haematoma at cannulation site,	to 1	Q1.06.47			not relevant

- iatrogenic sacrifice,	to 1	Q1.06.50			not relevant
- iatrogenic sacrifice: inadvertent,	to 1	Q1.06.52			not relevant
- iatrogenic sacrifice: intentional,	to 1	Q1.06.51			not relevant
- infection at cannulation site,	to 627	Q1.06.40	998.5	T81.4	not relevant
- infection,	to 627	Q1.96.02			not relevant
- infection: suspected,	to 627	Q1.06.57			not relevant
- infection: documented,	to 627	Q1.06.58			not relevant
- intravascular tear with flow obstruction,	to 1917	Q1.02.90			not relevant
- laceration,	to 1	Q1.06.36	998.2	T81.2	not relevant
- loss of vessel,	to 1	Q1.06.48			not relevant
- obstruction,	to 960	Q1.06.33			not relevant
- perforation,	to 1	Q1.06.37	998.2	T81.2	not relevant
- relative hypertension,	to 600	Q1.06.45			not relevant
- retroperitoneal haemorrhage,	to 1	Q1.06.55	459.0	R58	not relevant
- rupture,	to 1	Q1.06.43	998.3	T81.3	not relevant
- spasm,	to 1	Q1.06.44	443.9	I73.9	not relevant
- stenosis,	to 960	Q1.06.32			not relevant
- thrombosis in transected stump,	to 600	Q1.06.46	453.9	R2.9	not relevant
- thrombosis,	to 1917	Q1.06.35	453.9	R2.9	not relevant
- vascular tear,	to 1917	Q1.02.86			not relevant
- vascular tear: confined (extravasation not increasing in size),	to 1917	Q1.02.87			not relevant
- vascular tear: not confined (extravasation increasing in size),	to 1917	Q1.02.88			not relevant
- postprocedural vessel-chamber complication (DESCRIBE),	to 1	Q1.06.49			not relevant
no entry	to 1	not relevant			not relevant

End of branch

3000 Normal terms: structure and function

Normal heart,	to 1	01.01.00			01.01.00	Normal heart,
Normal atrial arrangement (situs), atrioventricular & ventriculo-arterial connections,	to 1	01.03.10			01.03.10	Normal atrial arrangement (situs), atrioventricular & ventriculo-arterial connections,
Normal cardiac chamber terms	to 3001	not relevant				
Normal artery and vein terms	to 3002	not relevant				
Normal valve terms	to 3005	not relevant				
Usual atrial arrangement (atrial situs solitus),	to 1	01.03.00			01.03.00	Usual atrial arrangement (atrial situs solitus),
Concordant atrioventricular connections,	to 1	01.04.00			not relevant	
Concordant ventriculo-arterial connections,	to 1	01.05.00			01.05.00	Concordant ventriculo-arterial connections,
Normal position-orientation of heart,	to 1	02.01.00			not relevant	
Laevocardia: heart predominantly in left hemithorax,	to 1	02.01.03	746.8	Q24.1	02.01.03	Laevocardia: heart predominantly in left hemithorax,
Apex of heart to left ('laevoversion'),	to 1	02.02.00	746.8	Q24.1	not relevant	
Normal position & morphology of thoraco-abdominal organs,	to 1	03.01.00			not relevant	
Thymus present,	to 1	03.01.07			not relevant	
Lungs in normal arrangement,	to 1	03.02.01			not relevant	
Normal bronchial anatomy,	to 1	03.03.01			not relevant	
Spleen left-sided,	to 1	03.07.01			not relevant	
Liver right-sided,	to 1	03.04.01			not relevant	
Stomach left-sided,	to 1	03.05.01			not relevant	
Caecum right-sided,	to 1	03.06.01			not relevant	
Intact atrial septum (no interatrial communication),	to 1	05.03.10			05.03.10	Intact atrial septum (no interatrial communication),
Intact ventricular septum,	to 1	07.21.00			07.21.00	Intact ventricular septum,
Sinus rhythm,	to 1	11.00.01			not relevant	
Sinus arrhythmia,	to 1	11.00.02	427.8	H9.8	not relevant	

3001 Normal cardiac chamber terms

Right atrium normal,	to 1	05.00.10			not relevant
Right atrium normal size,	to 1	05.00.11			not relevant
Left atrium normal,	to 1	05.00.12			not relevant
Left atrium normal size,	to 1	05.00.13			not relevant
Right ventricle normal,	to 1	05.00.14			not relevant
Right ventricle normal size,	to 1	05.00.15			not relevant
Right ventricular function normal,	to 1	07.01.90			not relevant
Left ventricle normal,	to 1	05.00.16			not relevant
Left ventricle normal size,	to 1	05.00.17			not relevant
Left ventricular function normal,	to 1	07.06.90			not relevant
Biventricular function normal,	to 1	07.90.00			not relevant
Right ventricle to right with respect to left ventricle,	to 1	02.04.01			not relevant
Right ventricle superior with respect to left ventricle,	to 1	02.04.03			not relevant
Right ventricle anterior with respect to left ventricle,	to 1	02.04.05			not relevant
Balanced (similar) ventricular sizes,	to 1	02.03.10			not relevant

3002 Normal artery and vein terms

Pulmonary arteries present,	to 1	09.17.15			not relevant
Pulmonary trunk present,	to 1	09.07.14			not relevant
Confluent pulmonary arteries,	to 1	09.10.45			not relevant
Aortic orifice posterior right with respect to pulmonary orifice (normal),	to 1	02.06.00			not relevant
Spiralling course of great arteries (normal),	to 1	02.07.00			not relevant
Descending aorta left of spine and inferior caval vein (VC) right (normal),	to 1	03.06.00			not relevant
Aortic arch normal,	to 1	09.28.21			not relevant
Left arch & left descending aorta (normal),	to 1	09.28.01			not relevant
Left aortic arch,	to 1	09.28.22			not relevant
Left aortic arch branching pattern,	to 1	09.30.25			not relevant
Coronary arteries in usual arrangement,	to 1	09.46.20			not relevant
Normal course of coronary arteries,	to 1	09.43.00			not relevant
Systemic venous connections normal,	to 1	04.00.00			not relevant
Right superior caval vein (SVC) connecting to right atrium,	to 1	04.00.01			not relevant
Inferior caval vein (VC) to right atrium,	to 1	04.00.02			not relevant
Coronary sinus intact,	to 1	04.04.16			not relevant
Innominate vein present,	to 1	04.01.18			not relevant
Pulmonary venous connections normal,	to 1	04.00.03			not relevant

3005 Normal valve terms

Two atrioventricular valves present,	to 1	06.00.00			not relevant
Tricuspid valve normal,	to 1	06.01.90			not relevant
Tricuspid valve annulus normal,	to 1	06.01.95			not relevant
Mitral valve normal,	to 1	06.02.90			not relevant
Mitral valve annulus normal,	to 1	06.02.95			not relevant
Pulmonary valve normal,	to 1	09.05.90			not relevant
Pulmonary valve 'annulus' normal,	to 1	09.05.95			not relevant
Tricuspid pulmonary valve,	to 1	09.05.33			not relevant
Aortic valve normal,	to 1	09.15.90			not relevant
Aortic valve 'annulus' normal,	to 1	09.15.98			not relevant
Aortic valve cusps normal,	to 1	09.15.96			not relevant
Aortic valve commissure normal,	to 1	09.15.94			not relevant
Aortic valve sinus normal,	to 1	09.15.95			not relevant
Aortic root normal,	to 1	09.15.97			not relevant
Tricuspid aortic valve,	to 1	09.15.23			not relevant
Common atrioventricular valve 'normal',	to 1	06.05.90			not relevant
Right atrioventricular valve 'normal',	to 1	06.03.90			not relevant
Left atrioventricular valve 'normal',	to 1	06.04.90			not relevant
Truncal valve 'normal',	to 1	09.02.90			not relevant
Cardiovascular Z scores - qualifiers	to 955	not relevant			not relevant

End of branch

3200 General site specific qualifiers

Site of cardiac lesion, injury, tumour or procedure - qualifiers	to 3205	not relevant			
Specific part of respiratory tract involved in abnormality or procedure - qualifiers	to 3300	not relevant			
Specific non-cardiothoracic parts of body - qualifiers	to 3320	not relevant			
Wound related sites - qualifiers	to 3330	not relevant			
Cardiovascular Z scores - qualifiers	to 955	not relevant			
- anatomical location unknown,	to 1	Q1.85.60			not relevant
- anatomical location unknown or unspecified,	to 1	Q1.85.61			not relevant
- anatomical location unspecified,	to 1	Q1.85.60			not relevant

3205 @ Site of cardiac lesion, injury, tumour or procedure - qualifiers

Heart valves	to 3210	not relevant			
Systemic veins	to 3220	not relevant			
Systemic arteries	to 3230	not relevant			
Landmarks and surfaces of heart	to 3250	not relevant			
- at vascular access site,	to 1	Q1.88.70			not relevant
- not at vascular access site,	to 1	Q1.88.69			not relevant
- pulmonary vein,	to 1	Q1.85.03			not relevant
Specific pulmonary vein	to 94	not relevant			
- atrium,	to 1	Q1.85.28			not relevant
- right atrium,	to 1	Q1.85.04			not relevant

- right atrial wall,	to 1	Q1.85.30	not relevant
- left atrium,	to 1	Q1.85.05	not relevant
- left atrial wall,	to 1	Q1.85.31	not relevant
- interatrial septum,	to 1	Q1.85.06	not relevant
- both atriums,	to 1	Q1.85.44	not relevant
- ventricle,	to 1	Q1.85.32	not relevant
- right ventricle,	to 1	Q1.85.07	not relevant
- right ventricular free wall,	to 1	Q1.85.33	not relevant
- right ventricular outflow tract,	to 1	Q5.85.21	not relevant
- left ventricle,	to 1	Q1.85.08	not relevant
- left ventricular free wall,	to 1	Q1.85.34	not relevant
- left ventricular outflow tract,	to 1	Q5.85.22	not relevant
- both ventricles,	to 1	Q5.85.43	not relevant
- interventricular septum,	to 1	Q1.85.09	not relevant
- common arterial trunk,	to 1	Q1.85.23	not relevant
- pulmonary artery,	to 1	Q1.85.45	not relevant
- pulmonary trunk,	to 1	Q1.10.46	not relevant
- right pulmonary artery,	to 1	Q1.10.51	not relevant
- left pulmonary artery,	to 1	Q1.10.55	not relevant
Specific pulmonary artery details	to 353	not relevant	
- papillary muscle,	to 1	Q1.85.36	not relevant
- tendinous chords,	to 1	Q1.85.37	not relevant
- pericardium,	to 1	Q1.85.18	not relevant
- epicardium,	to 1	Q1.85.19	not relevant
- subepicardium,	to 1	Q1.85.38	not relevant
- endocardium,	to 1	Q1.85.20	not relevant
- subendocardium,	to 1	Q1.85.39	not relevant
- intramyocardium,	to 1	Q1.85.40	not relevant
- intracardiac,	to 1	Q1.85.41	not relevant
- intrapericardial,	to 1	Q1.85.42	not relevant
- extracardiac,	to 1	Q1.85.52	not relevant
- intracardiac & extracardiac,	to 1	Q1.85.53	not relevant
- part of heart (DESCRIBE),	to 1	Q1.85.29	not relevant
no entry	to 1	not relevant	

3210 @ Heart valves: qualifiers

- heart valve,	to 1	Q1.85.35	not relevant
- tricuspid valve,	to 1	Q1.85.14	not relevant
- mitral valve,	to 1	Q1.85.15	not relevant
- common atrioventricular valve,	to 1	Q1.85.24	not relevant
- right atrioventricular valve,	to 1	Q1.85.25	not relevant
- left atrioventricular valve,	to 1	Q1.85.26	not relevant
- truncal valve,	to 1	Q1.85.27	not relevant
- pulmonary valve,	to 1	Q1.85.16	not relevant
- pulmonary valve: native,	to 1	Q1.85.46	not relevant
- neopulmonary valve,	to 1	Q1.85.47	not relevant
- neopulmonary valve (prior native aortic valve) ,	to 1	Q1.85.48	not relevant
- aortic valve,	to 1	Q1.85.17	not relevant
- aortic valve: native,	to 1	Q1.85.49	not relevant
- neo-aortic valve,	to 1	Q1.85.50	not relevant
- neo-aortic valve (prior native pulmonary valve),	to 1	Q1.85.51	not relevant
no entry	to 1	not relevant	

3220 @ Systemic veins: qualifiers

- caval vein,	to 1	Q1.85.00	not relevant
- inferior caval vein (VC),	to 1	Q1.85.01	not relevant
- superior caval vein (SVC),	to 1	Q1.85.02	not relevant
- superior caval vein: right,	to 1	Q1.86.30	not relevant
- superior caval vein: left,	to 1	Q1.86.31	not relevant
- non-caval vein,	to 1	Q1.86.78	not relevant
- axillary vein,	to 1	Q1.86.32	not relevant
- axillary vein: right,	to 1	Q1.86.33	not relevant
- axillary vein: left,	to 1	Q1.86.34	not relevant
- azygos vein,	to 1	Q1.86.79	not relevant
- hemiazygos vein,	to 1	Q1.86.80	not relevant
- innominate vein (brachiocephalic),	to 1	Q1.86.35	not relevant
- subclavian vein,	to 1	Q1.86.36	not relevant
- subclavian vein: right,	to 1	Q1.86.37	not relevant
- subclavian vein: left,	to 1	Q1.86.38	not relevant
- jugular vein,	to 1	Q1.86.39	not relevant
- jugular vein: internal,	to 1	Q1.86.81	not relevant
- jugular vein: external,	to 1	Q1.86.82	not relevant
- jugular vein: right,	to 1	Q1.86.40	not relevant
- jugular vein: right external,	to 1	Q1.86.41	not relevant
- jugular vein: right internal,	to 1	Q1.86.42	not relevant
- jugular vein: left,	to 1	Q1.86.43	not relevant
- jugular vein: left external,	to 1	Q1.86.44	not relevant
- jugular vein: left internal,	to 1	Q1.86.45	not relevant
- femoral vein,	to 1	Q1.86.46	not relevant
- femoral vein: right,	to 1	Q1.86.47	not relevant
- femoral vein: left,	to 1	Q1.86.48	not relevant
- iliac vein,	to 1	Q1.86.49	not relevant
- iliac vein: right,	to 1	Q1.86.50	not relevant
- iliac vein: right common,	to 1	Q1.86.51	not relevant
- iliac vein: right external,	to 1	Q1.86.52	not relevant
- iliac vein: right internal,	to 1	Q1.86.53	not relevant
- iliac vein: left,	to 1	Q1.86.54	not relevant
- iliac vein: left common,	to 1	Q1.86.55	not relevant
- iliac vein: left external,	to 1	Q1.86.56	not relevant
- iliac vein: left internal,	to 1	Q1.86.57	not relevant
- long saphenous,	to 1	Q1.86.58	not relevant
- long saphenous: right,	to 1	Q1.86.59	not relevant
- long saphenous: left,	to 1	Q1.86.60	not relevant
- peripheral vein,	to 1	Q1.86.61	not relevant
- peripheral vein: arm,	to 1	Q1.86.62	not relevant
- peripheral vein: right arm,	to 1	Q1.86.63	not relevant
- peripheral vein: left arm,	to 1	Q1.86.64	not relevant
- peripheral vein: head,	to 1	Q1.86.65	not relevant
- peripheral vein: head and neck,	to 1	Q1.86.66	not relevant
- peripheral vein: neck,	to 1	Q1.86.67	not relevant
- peripheral vein: trunk,	to 1	Q1.86.68	not relevant
- peripheral vein: leg,	to 1	Q1.86.69	not relevant
- peripheral vein: right leg,	to 1	Q1.86.70	not relevant
- peripheral vein: left leg,	to 1	Q1.86.71	not relevant
- portal vein,	to 1	Q1.86.72	not relevant
- portal vein: extrahepatic,	to 1	Q1.86.73	not relevant
- portal vein: intrahepatic,	to 1	Q1.86.74	not relevant
- portal vein: intrahepatic right,	to 1	Q1.86.75	not relevant
- portal vein: intrahepatic left,	to 1	Q1.86.76	not relevant
- renal vein,	to 1	Q1.86.83	not relevant
- renal vein: right,	to 1	Q1.86.84	not relevant
- renal vein: left,	to 1	Q1.86.85	not relevant
- renal veins: bilateral,	to 1	Q1.86.86	not relevant
- umbilical vein,	to 1	Q1.86.77	not relevant
no entry	to 1	not relevant	

3230 @ Systemic arteries: qualifiers

- aorta,	to 1	Q1.85.13	not relevant
Site of aorta - qualifiers	to 699	not relevant	
- artery other than aorta,	to 1	Q1.85.55	not relevant
Coronary arteries,	to 467	not relevant	
- arterial duct,	to 1	Q1.88.59	not relevant
- arterial ligament,	to 1	Q1.88.71	not relevant
- innominate artery,	to 1	Q1.88.06	not relevant
- carotid artery,	to 1	Q1.88.60	not relevant
- carotid artery: right,	to 1	Q1.88.61	not relevant
- carotid artery: left,	to 1	Q1.88.62	not relevant
- common carotid artery,	to 1	Q1.88.07	not relevant
- common carotid artery: right,	to 1	Q1.88.08	not relevant
- common carotid artery: left,	to 1	Q1.88.09	not relevant
- external carotid artery,	to 1	Q1.88.63	not relevant
- external carotid artery: right,	to 1	Q1.88.64	not relevant
- external carotid artery: left,	to 1	Q1.88.65	not relevant
- internal carotid artery,	to 1	Q1.88.66	not relevant
- internal carotid artery: right,	to 1	Q1.88.67	not relevant
- internal carotid artery: left,	to 1	Q1.88.68	not relevant
- subclavian artery,	to 1	Q1.88.10	not relevant
- subclavian artery: right,	to 1	Q1.88.11	not relevant
- subclavian artery: left,	to 1	Q1.88.12	not relevant

- axillary artery,	to 1	Q1.88.13	not relevant
- axillary artery: right,	to 1	Q1.88.14	not relevant
- axillary artery: left,	to 1	Q1.88.15	not relevant
- brachial artery,	to 1	Q1.88.16	not relevant
- brachial artery: right,	to 1	Q1.88.17	not relevant
- brachial artery: left,	to 1	Q1.88.18	not relevant
- radial artery,	to 1	Q1.88.19	not relevant
- radial artery: right,	to 1	Q1.88.20	not relevant
- radial artery: left,	to 1	Q1.88.21	not relevant
- ulnar artery,	to 1	Q1.88.56	not relevant
- ulnar artery: right,	to 1	Q1.88.57	not relevant
- ulnar artery: left,	to 1	Q1.88.58	not relevant
- renal artery,	to 1	Q1.88.22	not relevant
- renal artery: right,	to 1	Q1.88.23	not relevant
- renal artery: left,	to 1	Q1.88.24	not relevant
- hepatic artery,	to 1	Q1.88.54	not relevant
- iliac artery,	to 1	Q1.88.25	not relevant
- iliac artery: right,	to 1	Q1.88.26	not relevant
- iliac artery: right common,	to 1	Q1.88.27	not relevant
- iliac artery: right external,	to 1	Q1.88.28	not relevant
- iliac artery: right internal,	to 1	Q1.88.29	not relevant
- iliac artery: left,	to 1	Q1.88.30	not relevant
- iliac artery: left common,	to 1	Q1.88.31	not relevant
- iliac artery: left external,	to 1	Q1.88.32	not relevant
- iliac artery: left internal,	to 1	Q1.88.33	not relevant
- femoral artery,	to 1	Q1.88.34	not relevant
- femoral artery: right,	to 1	Q1.88.35	not relevant
- femoral artery: left,	to 1	Q1.88.36	not relevant
- dorsalis pedis,	to 1	Q1.88.37	not relevant
- dorsalis pedis: right,	to 1	Q1.88.38	not relevant
- dorsalis pedis: left,	to 1	Q1.88.39	not relevant
- posterior tibial,	to 1	Q1.88.40	not relevant
- posterior tibial: right,	to 1	Q1.88.41	not relevant
- posterior tibial: left,	to 1	Q1.88.42	not relevant
- peripheral artery(ies),	to 1	Q1.88.43	not relevant
- native arteries of extremities,	to 1	Q1.88.53	not relevant
- peripheral artery: arm,	to 1	Q1.88.44	not relevant
- peripheral artery: right arm,	to 1	Q1.88.45	not relevant
- peripheral artery: left arm,	to 1	Q1.88.46	not relevant
- peripheral artery: head,	to 1	Q1.88.47	not relevant
- peripheral artery: leg,	to 1	Q1.88.48	not relevant
- peripheral artery: right leg,	to 1	Q1.88.49	not relevant
- peripheral artery: left leg,	to 1	Q1.88.50	not relevant
- umbilical artery,	to 1	Q1.88.51	not relevant
no entry	to 1	not relevant	

3250 @ Landmarks and surfaces of heart

- base of heart,	to 1	Q1.86.21	not relevant
- apex of heart,	to 1	Q1.86.22	not relevant
- anterior surface of heart,	to 1	Q1.86.01	not relevant
- inferior surface of heart,	to 1	Q1.86.02	not relevant
- lateral surface of heart,	to 1	Q1.86.03	not relevant
- right lateral surface of heart,	to 1	Q1.86.04	not relevant
- left lateral surface of heart,	to 1	Q1.86.05	not relevant
- superior surface of heart,	to 1	Q1.86.06	not relevant
- posterior surface of heart,	to 1	Q1.86.07	not relevant
no entry	to 1	not relevant	

3300 @ Specific part of respiratory tract involved in abnormality or procedure - qualifiers

Right lung	to 3305	not relevant	
Left lung	to 3310	not relevant	
- upper respiratory tract,	to 1	Q1.80.54	not relevant
- trachea,	to 1	Q1.80.53	not relevant
- laryngotrachea,	to 1	Q1.80.79	not relevant
- lower respiratory tract,	to 1	Q1.80.50	not relevant
- bronchus,	to 1	Q1.80.93	not relevant
- bronchi,	to 1	Q1.80.52	not relevant
- mainstem bronchus,	to 1	Q1.80.90	not relevant
- segmental bronchus,	to 1	Q1.80.91	not relevant
- distal bronchus,	to 1	Q1.80.92	not relevant
- at carina,	to 1	Q1.80.80	not relevant
- both lungs,	to 1	Q1.80.55	not relevant
- upper lobe apex,	to 1	Q1.80.98	not relevant
- lower lobe superior segment apex,	to 1	Q1.80.94	not relevant
- bronchial,	to 1	Q1.80.51	not relevant
- part of respiratory tract (DESCRIBE),	to 1	Q1.80.49	not relevant
no entry	to 1800	not relevant	

3305 @ Specific right lung part involved in abnormality or procedure - qualifiers

- right lung,	to 1	Q1.80.41	not relevant
- right upper zone,	to 1	Q1.32.82	not relevant
- right middle zone,	to 1	Q1.32.83	not relevant
- right lower zone,	to 1	Q1.32.84	not relevant
- right bronchus,	to 1	Q1.80.81	not relevant
- right upper lobe,	to 1	Q1.80.42	not relevant
- right upper lobe apical segment,	to 1	Q1.80.61	not relevant
- right upper lobe anterior segment,	to 1	Q1.80.62	not relevant
- right upper lobe posterior segment,	to 1	Q1.80.63	not relevant
- right middle lobe,	to 1	Q1.80.43	not relevant
- right middle lobe lateral segment,	to 1	Q1.80.64	not relevant
- right middle lobe medial segment,	to 1	Q1.80.65	not relevant
- right lower lobe,	to 1	Q1.80.44	not relevant
- right lower lobe superior segment,	to 1	Q1.80.66	not relevant
- right lower lobe superior segment apex,	to 1	Q1.80.87	not relevant
- right lower lobe all basal segments,	to 1	Q1.80.84	not relevant
- right lower lobe medial basal segment,	to 1	Q1.80.67	not relevant
- right lower lobe anterior basal segment,	to 1	Q1.80.68	not relevant
- right lower lobe lateral basal segment,	to 1	Q1.80.69	not relevant
- right lower lobe posterior basal segment,	to 1	Q1.80.70	not relevant
no entry	to 1	not relevant	

3310 @ Specific left lung part involved in abnormality or procedure - qualifiers

- left lung,	to 1	Q1.80.45	not relevant
- left upper zone,	to 1	Q1.32.86	not relevant
- left middle zone,	to 1	Q1.32.87	not relevant
- left lower zone,	to 1	Q1.32.88	not relevant
- left bronchus,	to 1	Q1.80.82	not relevant
- left upper lobe,	to 1	Q1.80.46	not relevant
- left upper lobe apicoposterior segment,	to 1	Q1.80.71	not relevant
- left upper lobe anterior segment,	to 1	Q1.80.72	not relevant
- left upper lobe posterior segment,	to 1	Q1.80.83	not relevant
- lingular lobe,	to 1	Q1.80.47	not relevant
- lingular superior segment,	to 1	Q1.80.73	not relevant
- lingular inferior segment,	to 1	Q1.80.74	not relevant
- left lower lobe,	to 1	Q1.80.48	not relevant
- left lower lobe superior segment,	to 1	Q1.80.75	not relevant
- left lower lobe superior segment apex,	to 1	Q1.80.86	not relevant
- left lower lobe all basal segments,	to 1	Q1.80.85	not relevant
- left lower lobe anteromedial basal segment,	to 1	Q1.80.76	not relevant
- left lower lobe lateral basal segment,	to 1	Q1.80.77	not relevant
- left lower lobe posterior basal segment,	to 1	Q1.80.78	not relevant
- left lower lobe superior segment apex,	to 1	Q1.80.89	not relevant
no entry	to 1	not relevant	

3320 @ Specific non-cardiothoracic parts of body - qualifiers

Limb extremity site qualifiers	to 3321	not relevant	
- face,	to 1	Q1.79.01	not relevant
- head (excluding face),	to 1	Q1.79.02	not relevant
- scalp,	to 1	Q1.79.03	not relevant
- neck,	to 1	Q1.79.04	not relevant
- neck: right side,	to 1	Q1.79.05	not relevant
- neck: left side,	to 1	Q1.79.06	not relevant
- trunk (torso),	to 1	Q1.79.07	not relevant
- trunk (torso): involving back,	to 1	Q1.79.08	not relevant
- trunk (torso): involving back & buttocks,	to 1	Q1.79.09	not relevant
- trunk (torso): buttocks,	to 1	Q1.79.10	not relevant
- abdomen,	to 1	Q1.79.11	not relevant

- intestine,	to 1	Q1.79.12				not relevant
- liver,	to 1	Q1.79.13				not relevant
- right kidney,	to 1	Q1.79.14				not relevant
- left kidney,	to 1	Q1.79.15				not relevant
- spleen,	to 1	Q1.79.16				not relevant
- groin,	to 1	Q1.79.17				not relevant
no entry	to 1	not relevant				

3321 @ Limb extremity site qualifiers

- upper extremity,	to 1	Q1.79.30				not relevant
- fingers,	to 1	Q1.79.52				not relevant
- upper extremity: right,	to 1	Q1.79.31				not relevant
- right hand,	to 1	Q1.79.32				not relevant
- right finger(s),	to 1	Q1.79.33				not relevant
- right finger(s) only,	to 1	Q1.79.34				not relevant
- upper extremity: left,	to 1	Q1.79.35				not relevant
- left hand,	to 1	Q1.79.36				not relevant
- left finger(s),	to 1	Q1.79.37				not relevant
- left finger(s) only,	to 1	Q1.79.38				not relevant
- both hands,	to 1	Q1.79.39				not relevant
- fingers of both hands,	to 1	Q1.79.40				not relevant
- lower extremity,	to 1	Q1.79.41				not relevant
- toes,	to 1	Q1.79.53				not relevant
- lower extremity: right,	to 1	Q1.79.42				not relevant
- right foot,	to 1	Q1.79.43				not relevant
- right toe(s),	to 1	Q1.79.44				not relevant
- right toe(s) only,	to 1	Q1.79.45				not relevant
- lower extremity: left,	to 1	Q1.79.46				not relevant
- left foot,	to 1	Q1.79.47				not relevant
- left toe(s),	to 1	Q1.79.48				not relevant
- left toe(s) only,	to 1	Q1.79.49				not relevant
- both feet,	to 1	Q1.79.50				not relevant
- toes of both feet,	to 1	Q1.79.51				not relevant
no entry	to 1	not relevant				

3330 @ Wound related sites and other qualifiers

- abdomen,	to 1	Q1.79.11				not relevant
- chest tube site,	to 1	Q1.79.65				not relevant
- infraclavicular,	to 1	Q1.79.60				not relevant
- infraclavicular: left,	to 1	Q1.79.62				not relevant
- infraclavicular: right,	to 1	Q1.79.61				not relevant
- infection involving foreign body,	to 1	Q1.79.69				not relevant
- intra-aortic balloon pump site,	to 1	Q1.79.70				not relevant
- lower extremity,	to 1	Q1.79.41				not relevant
- lower extremity: left,	to 1	Q1.79.46				not relevant
- lower extremity: right,	to 1	Q1.79.42				not relevant
- median sternotomy,	to 1	Q5.35.80				not relevant
- neck,	to 1	Q1.79.04				not relevant
- neck: left side,	to 1	Q1.79.05				not relevant
- neck: right side,	to 1	Q1.79.05				not relevant
- pacemaker-implantable cardioverter & defibrillator (ICD) pocket incision,	to 1	Q5.35.88				not relevant
- pacemaker-implantable cardioverter & defibrillator (ICD) pocket,	to 1	Q1.79.63				not relevant
- parasternal incision,	to 1	Q5.35.84				not relevant
- parasternal incision: left,	to 1	Q5.35.86				not relevant
- parasternal incision: right,	to 1	Q5.35.85				not relevant
- subcostal,	to 1	Q1.79.66				not relevant
- subcostal: left,	to 1	Q1.79.68				not relevant
- subcostal: right,	to 1	Q1.79.67				not relevant
- submammary incision,	to 1	Q5.35.89				not relevant
- thoracoscopic incision,	to 1	Q5.35.87				not relevant
- thoracotomy,	to 1	Q5.35.81				not relevant
- thoracotomy: left,	to 1	Q5.35.83				not relevant
- thoracotomy: right,	to 1	Q5.35.82				not relevant
- upper extremity,	to 1	Q1.79.30				not relevant
- upper extremity: left,	to 1	Q1.79.35				not relevant
- upper extremity: right,	to 1	Q1.79.31				not relevant
- vascular access port site,	to 1	Q1.79.64				not relevant
no entry	to 1	not relevant				

End of branch

4000 Lung and non-cardiac thoracic disease

Lung congenital and sequestration anomalies	to 21	not relevant				
Respiratory and thoracic complications following cardiac procedures	to 1950	not relevant				
Pleural disease: pneumothorax, effusions, empyema, postprocedural	to 1960	not relevant				
Respiratory arrest	to 4002	not relevant				
Respiratory failure	to 4005	not relevant				
Acquired pleural disease	to 4010	not relevant				
Bronchial Fistulae	to 4015	not relevant				
Acquired bronchial disease	to 4020	not relevant				
Acquired diaphragm disorders	to 4030	not relevant				
Esophageal disorders	to 4035	not relevant				
Tracheal disease	to 4040	not relevant				
Sternal and sternoclavicular disease	to 4050	not relevant				
Airway disease,	to 1	16.09.00	519.8	J98.8	16.09.00	Airway disease,
Subglottic stenosis,	to 1	16.09.01	478.7	J38.6	16.09.00	Airway disease,
Laryngeal atresia,	to 1	16.09.21	748.3	Q31.8	16.10.09	Tracheal disease,
Laryngotracheal cleft,	to 1	16.09.22	748.3	Q31.8	16.10.09	Tracheal disease,
Asthma,	to 1	16.03.10	493.9	J45.9	16.03.10	Asthma,
Lower respiratory tract infection,	to 3300	16.03.02	518.9	J22	16.03.02	Lower respiratory tract infection,
Pneumonia,	to 3300	16.03.03	486	J18.9	16.03.02	Lower respiratory tract infection,
Pneumonia: bacterial,	to 627	16.03.35	482.9	J15.9	16.03.02	Lower respiratory tract infection,
Pneumonia: viral,	to 628	16.03.36	480.9	J12.9	16.03.02	Lower respiratory tract infection,
Pneumonia due to aspiration,	to 3300	16.03.04	507.0	J69	16.03.02	Lower respiratory tract infection,
Lung disease,	to 600	16.03.05	518.8	J98.4	16.03.05	Lung disease,
Lung cancer,	to 4048	16.03.00	235.7	D38.1	16.03.05	Lung disease,
Lung disease - benign,	to 4048	16.03.01	212.3	D14.3	16.03.01	Lung disease - benign,
Lung disease - malignant,	to 4048	16.03.21	162.9	C34.9	16.03.21	Lung disease - malignant,
Lung mass,	to 1	16.03.22	518.8	J98.4	16.03.05	Lung disease,
Lung sequestration: acquired,	to 1	16.03.32	518.8	J98.4	16.03.05	Lung disease,
Pulmonary parenchymal disease,	to 1	16.03.30	518.8	J98.4	16.03.05	Lung disease,
Restrictive (interstitial) lung disease,	to 1	16.03.33	518.1	J84.9	16.03.05	Lung disease,
Emphysema,	to 1	16.03.34	492	J43	16.03.05	Lung disease,
Pulmonary infiltrate,	to 353	16.03.31	518.8	J98.4	16.03.05	Lung disease,
Mediastinal disease,	to 4048	16.05.13	519.3	J98.5	16.05.13	Mediastinal disease,
Mediastinal mass,	to 4048	16.05.14	519.3	J98.5	16.05.13	Mediastinal disease,
Mediastinal disease - benign,	to 4048	16.05.11	212.5	D15.2	16.05.11	Mediastinal disease - benign,
Mediastinal disease - malignant,	to 4048	16.05.12	164.9	C38.3	16.05.12	Mediastinal disease - malignant,
Chest wall abscess,	to 627	16.12.01	682.2	L02.2	14.03.29	Thoracic-mediastinal abnormality,
Sternal abscess without prior median sternotomy,	to 627	16.12.04	682.2	L02.2	14.03.29	Thoracic-mediastinal abnormality,
Abscess at site of prior median sternotomy,	to 627	15.03.04	998.5	T81.4	15.03.03	Infection of median sternotomy wound,
Chest wall mass,	to 1	16.12.02	786.6	R22.2	14.03.29	Thoracic-mediastinal abnormality,
Thoracic disease,	to 1	16.12.03	519.9	J98.9	14.03.29	Thoracic-mediastinal abnormality,
Thyroid mass,	to 1	16.12.05	246.8	E07.8	14.03.29	Thoracic-mediastinal abnormality,

4002 Respiratory arrest

Respiratory arrest,	to 2812	16.29.01	799.1	R09.2	16.30.01	Respiratory failure,
Respiratory arrest: primary,	to 2812	16.29.02	799.1	R09.2	16.30.01	Respiratory failure,
Respiratory arrest: secondary,	to 2812	16.29.03	799.1	R09.2	16.30.01	Respiratory failure,
Respiratory arrest: unknown if primary or secondary,	to 2812	16.29.04	799.1	R09.2	16.30.01	Respiratory failure,
Postprocedural respiratory arrest,	to 1962	15.81.34	518.5	J95.1	15.80.33	Postprocedural requirement for reintubation,
Postprocedural respiratory arrest requiring reintubation,	to 1962	15.80.34	518.5	J95.1	15.80.33	Postprocedural requirement for reintubation,

4005 Respiratory failure

Respiratory failure,	to 4006	16.30.01	518.8	J96.9	16.30.01	Respiratory failure,	
Respiratory failure: acute,	to 4006	16.30.02	518.8	J96.0	16.30.01	Respiratory failure,	
Respiratory failure: chronic,	to 4006	16.30.03	518.8	J96.1	16.30.01	Respiratory failure,	
Respiratory failure: postprocedural,	to 4006	16.30.26	518.8	J96.1	16.30.01	Respiratory failure,	
Chronic obstructive pulmonary disease,	to 4006	16.30.25	496	J44.9	16.30.01	Respiratory failure,	
Respiratory failure due to chronic obstructive pulmonary disease,	to 4006	16.30.17	518.8	J96.9	J44.9	Respiratory failure,	
Respiratory failure due to cystic fibrosis,	to 4006	16.30.04	518.8	277	J96.9	E84.9	Respiratory failure,
Respiratory failure due to bronchopulmonary dysplasia,	to 4006	16.30.05	518.8	770.7	J96.9	P27.1	Respiratory failure,
Respiratory failure due to pulmonary fibrosis,	to 4006	16.30.06	518.8	515	J96.9	J84.1	Respiratory failure,
Respiratory failure due to pulmonary fibrosis - idiopathic,	to 4006	16.30.07	518.8	515	J96.9	J84.1	Respiratory failure,
Respiratory failure due to pulmonary fibrosis - surfactant deficiency,	to 4006	16.30.08	518.8	515	J96.9	J84.1	Respiratory failure,
Respiratory failure due to alpha 1-antitrypsin deficiency,	to 4006	16.30.10	518.8	277.6	J96.9	E88.0	Respiratory failure,

Acute Respiratory Distress Syndrome (ARDS),	to 4006	16.30.11	518.8	518.5	J96.9	J80	16.30.01	Respiratory failure,
Respiratory failure due to pneumonia,	to 4006	16.30.12	518.8	486	J96.9	J18.9	16.30.01	Respiratory failure,
Respiratory failure due to aspiration pneumonia,	to 4006	16.30.13	518.8	507	J96.9	J69.0	16.30.01	Respiratory failure,
Respiratory failure due to near drowning,	to 4006	16.30.14	518.8	994.1	J96.9	T75.1	16.30.01	Respiratory failure,
Respiratory failure due to pneumonitis,	to 4006	16.30.15	518.8	486	J96.9	J18.9	16.30.01	Respiratory failure,
Respiratory failure due to pneumoconiosis,	to 4006	16.30.16	518.8	505	J96.9	J64	16.30.01	Respiratory failure,
Respiratory failure due to congenital heart disease without pulmonary hypertension,	to 4006	16.30.18	518.8	746.9	J96.9	Q24.9	16.30.01	Respiratory failure,
Respiratory failure due to pulmonary vascular disease,	to 4006	16.30.19	518.8	416.8	J96.9	Q27.8	16.30.01	Respiratory failure,
Respiratory failure due to obliterative bronchiolitis,	to 4006	16.30.20	518.8		J96.9		16.30.01	Respiratory failure,
Respiratory failure due to obliterative bronchiolitis in native lung (de novo),	to 4006	16.30.21	518.8		J96.9		16.30.01	Respiratory failure,
Respiratory failure due to obliterative bronchiolitis in transplanted lung,	to 4006	16.30.22	518.8	996.8	J96.9	T86.3	16.30.01	Respiratory failure,
Respiratory failure due to transplant graft dysfunction,	to 4006	16.30.23	518.8	996.8	J96.9	T86.3	16.30.01	Respiratory failure,
Respiratory failure due to prolonged mechanical ventilatory support,	to 4006	16.30.24	518.8	V46.1	J96.9	Z99.1	16.30.01	Respiratory failure,
4006 @ Outcomes related to respiratory failure or insufficiency - qualifiers								
- recovery without mechanical ventilatory support,	to 1	Q1.71.01						not relevant
- requiring noninvasive respiratory support,	to 1	Q1.71.02						not relevant
- recovery with noninvasive respiratory support,	to 1	Q1.71.03						not relevant
- requiring mechanical ventilatory support,	to 1	Q1.71.04						not relevant
- recovery with mechanical ventilatory support,	to 1	Q1.71.05						not relevant
- requiring tracheostomy,	to 1	Q1.71.06						not relevant
- requiring postprocedural tracheostomy,	to 1	Q1.71.07						not relevant
- requiring preprocedural tracheostomy,	to 1	Q1.71.08						not relevant
- recovery following tracheostomy,	to 1	Q1.71.09						not relevant
- recovery following tracheostomy with decannulation during same admission,	to 1	Q1.71.10						not relevant
- recovery following tracheostomy with decannulation not during same admission, no entry	to 1	Q1.71.11						not relevant
4010 Acquired pleural disease								
Pleural space disease,	to 1	16.01.00	511.0		J94.9		14.03.29	Thoracic-mediastinal abnormality,
Pneumothorax,	to 1961	16.01.01	512		J93.9		16.01.01	Pneumothorax,
Right pneumothorax,	to 1961	16.01.02	512		J93.9		16.01.01	Pneumothorax,
Left pneumothorax,	to 1961	16.01.03	512		J93.9		16.01.01	Pneumothorax,
Pneumothorax: spontaneous,	to 1961	16.01.12	512		J93.1		16.01.01	Pneumothorax,
Pleural effusion,	to 1961	16.01.04	511.9		J90		16.01.04	Pleural effusion,
Pleural effusion requiring drainage,	to 1961	15.80.61	511.9		J90		15.80.61	Pleural effusion requiring drainage,
Right pleural effusion,	to 1961	16.01.05	511.9		J90		16.01.04	Pleural effusion,
Left pleural effusion,	to 1961	16.01.06	511.9		J90		16.01.04	Pleural effusion,
Chylothorax,	to 1961	10.08.16	457.8		J94.0		16.01.07	Chylothorax,
Haemothorax,	to 1961	16.01.08	998.1		T81.0		15.80.56	Haemothorax,
Pleurisy,	to 951	16.01.09	511.0		P09.1		15.80.21	Postprocedural pulmonary infection,
Empyema,	to 1961	16.01.11	510.9		J86		16.01.11	Empyema,
Pleural disease - benign,	to 1	16.01.21	212.4		D15.7		16.01.21	Pleural disease, Benign
Pleural disease - malignant,	to 1	16.01.22	163.9		T81.0		16.01.22	Pleural disease, Malignant
4015 Bronchial Fistulae								
Bronchial fistula,	to 1	16.02.00	510.0		J86.0		16.02.00	Bronchial fistula,
Broncho-oesophageal fistula,	to 1	16.02.01	530.8		J86.0		16.02.00	Bronchial fistula,
Broncho-oesophageal fistula: congenital,	to 1	16.02.02	530.8		Q39.2		16.02.00	Bronchial fistula,
Broncho-oesophageal fistula: acquired,	to 1	16.02.03	530.8		J86.0		16.02.00	Bronchial fistula,
Broncho-oesophageal fistula: acquired due to stent erosion,	to 1	16.02.04	530.8		J86.0		16.02.00	Bronchial fistula,
Broncho-vascular fistula,	to 1	16.02.05	530.8		Q39.2		16.02.00	Bronchial fistula,
Broncho-aortic fistula,	to 1	16.02.06	530.8		Q39.2		16.02.00	Bronchial fistula,
Broncho-aortic fistula: congenital,	to 1	16.02.07	530.8		Q39.2		16.02.00	Bronchial fistula,
Broncho-aortic fistula: acquired,	to 1	16.02.08	530.8		J86.0		16.02.00	Bronchial fistula,
Broncho-aortic fistula: acquired due to stent erosion,	to 1	16.02.09	530.8		J86.0		16.02.00	Bronchial fistula,
Broncho-innominate arterial fistula,	to 1	16.02.10	530.8		Q39.2		16.02.00	Bronchial fistula,
Broncho-innominate arterial fistula: congenital,	to 1	16.02.11	530.8		Q39.2		16.02.00	Bronchial fistula,
Broncho-innominate arterial fistula: acquired,	to 1	16.02.12	530.8		J86.0		16.02.00	Bronchial fistula,
Broncho-innominate arterial fistula: acquired due to stent erosion,	to 1	16.02.13	530.8		J86.0		16.02.00	Bronchial fistula,
Broncho-pulmonary arterial fistula,	to 1	16.02.14	530.8		Q39.2		16.02.00	Bronchial fistula,
Broncho-pulmonary arterial fistula: congenital,	to 1	16.02.15	530.8		Q39.2		16.02.00	Bronchial fistula,
Broncho-pulmonary arterial fistula: acquired,	to 1	16.02.16	530.8		J86.0		16.02.00	Bronchial fistula,
Broncho-pulmonary arterial fistula: acquired due to stent erosion,	to 1	16.02.17	530.8		J86.0		16.02.00	Bronchial fistula,
Bronchopleural fistula,	to 951	16.02.18	510.0		J86.0		16.02.00	Bronchial fistula,
4020 Acquired bronchial disease								
Bronchial trauma, tears and burns	to 715	not relevant						
Bronchial stenosis,	to 3300	16.10.15	519.1		J98.0		16.09.00	Airway disease,
Bronchial stenosis: acquired,	to 958	16.10.21	519.1		J98.0		16.08.00	Acquired bronchial disease,
Bronchial stenosis: post-intubation,	to 958	16.10.22	519.1		J98.0		16.08.00	Acquired bronchial disease,
Bronchial compression - acquired,	to 3300	16.10.03	519.1		J98.0		16.08.00	Acquired bronchial disease,
Bronchomalacia - acquired,	to 3300	16.10.04	519.1		J98.0		16.08.00	Acquired bronchial disease,
Chronic bronchitis	to 1	16.10.05	491.9		J42		16.08.00	Acquired bronchial disease,
Bronchial foreign body,	to 987	16.08.01	934.8		T17.5		16.09.00	Airway disease,
Bronchial tumour,	to 3300	16.08.12	235.7	M8000/1	D38.1	M8000/1	16.08.00	Acquired bronchial disease,
Bronchial tumour: primary,	to 3300	16.08.13	235.7	M8000/1	D38.1	M8000/1	16.08.00	Acquired bronchial disease,
Bronchial tumour: secondary,	to 3300	16.08.14	235.7	M8000/6	D38.1	M8000/6	16.08.00	Acquired bronchial disease,
Bronchial haemorrhage,	to 3300	16.08.15	786.3		R04.8		16.08.00	Acquired bronchial disease,
Bronchial haemorrhage during procedure,	to 3300	16.08.16	786.3	E878.8	R04.8	Y83.8	16.08.00	Acquired bronchial disease,
Bronchial haemorrhage following procedure,	to 3300	16.08.17	786.3	E878.8	R04.8	Y83.8	16.08.00	Acquired bronchial disease,
4030 Acquired diaphragm disorders								
Diaphragm disease,	to 1	16.15.09	519.4		J98.6		16.15.09	Diaphragm disease,
Diaphragm disorder: acquired,	to 951	16.13.00	519.4		J98.6		16.13.00	Diaphragm disorder: acquired,
Diaphragm paralysis,	to 951	16.13.20	519.4		J98.6		16.13.20	Diaphragm paralysis,
Diaphragm paralysis: acquired,	to 951	16.13.24	519.4		J98.6		16.13.20	Diaphragm paralysis,
Diaphragm paralysis: acquired right sided,	to 951	16.13.25	519.4		J98.6		16.13.20	Diaphragm paralysis,
Diaphragm paralysis: acquired left sided,	to 951	16.13.26	519.4		J98.6		16.13.20	Diaphragm paralysis,
Diaphragmatic hernia,	to 951	03.07.25	553.3		K44.9		14.03.07	Congenital diaphragmatic hernia,
Diaphragmatic hernia: right-sided,	to 951	03.07.26	553.3		K44.9		14.03.07	Congenital diaphragmatic hernia,
Diaphragmatic hernia: left-sided,	to 951	03.07.27	553.3		K44.9		14.03.07	Congenital diaphragmatic hernia,
Diaphragmatic hernia: acquired,	to 951	16.13.01	553.3		K44.9		16.13.00	Diaphragm disorder: acquired,
Diaphragmatic hernia: acquired: iatrogenic,	to 951	16.13.02	553.3		K44.9		16.13.00	Diaphragm disorder: acquired,
Diaphragmatic hernia: acquired: traumatic,	to 951	16.13.03	553.3		K44.9		16.13.00	Diaphragm disorder: acquired,
Diaphragmatic hernia: acquired: blunt trauma,	to 951	16.13.04	553.3		K44.9		16.13.00	Diaphragm disorder: acquired,
Diaphragmatic hernia: acquired: penetrative trauma,	to 951	16.13.05	553.3		K44.9		16.13.00	Diaphragm disorder: acquired,
Diaphragmatic hernia: residual,	to 951	16.13.06	553.3		K44.9		16.13.00	Diaphragm disorder: acquired,
Diaphragmatic hernia: recurrent,	to 951	16.13.07	553.3		K44.9		16.13.00	Diaphragm disorder: acquired,
4035 Oesophageal disorders								
Oesophageal disorder,	to 1	16.20.10	530		K22.9		16.20.10	Oesophageal disorder,
Oesophageal atresia (with or without fistula)	to 4042	not relevant						
Oesophageal cancer,	to 4048	16.20.00	235.5		D37.7		16.20.10	Oesophageal disorder,
Oesophageal disease - benign,	to 4048	16.20.01	211.0		D13.0		16.20.01	Oesophageal disease - benign,
Oesophageal disease - malignant,	to 4048	16.20.02	150.9		C15.9		16.20.02	Oesophageal disease - malignant,
Oesophageal achalasia,	to 1	16.20.03	530.0		K22.0		16.20.10	Oesophageal disorder,
Oesophageal diverticulum	to 1	16.20.04	530.6		K22.5		16.20.10	Oesophageal disorder,
Oesophageal diverticulum: congenital,	to 1	16.20.05	750.4		Q39.6		16.20.10	Oesophageal disorder,
Oesophageal diverticulum: pulsion (high intraluminal pressure),	to 1	16.20.06	530.6		K22.5		16.20.10	Oesophageal disorder,
Oesophageal diverticulum: pharyngoesophageal (Zenkers),	to 1	16.20.07	530.6		K22.5		16.20.10	Oesophageal disorder,
Oesophageal diverticulum: parabrachial (midesophageal),	to 1	16.20.08	530.6		K22.5		16.20.10	Oesophageal disorder,
Oesophageal diverticulum: epiphrenic,	to 1	16.20.09	530.6		K22.5		16.20.10	Oesophageal disorder,
Oesophageal diverticulum: traction (external pulling),	to 1	16.20.11	530.6		K22.5		16.20.10	Oesophageal disorder,
Oesophageal mass,	to 4048	16.20.12	530		K22.9		16.20.10	Oesophageal disorder,
Oesophageal duplication cyst	to 1	16.20.13	750.4		Q39.8		16.20.10	Oesophageal disorder,
Oesophageal perforation,	to 952	16.20.14	530.4		K22.3		16.20.10	Oesophageal disorder,
Gastro-oesophageal reflux disease (GORD),	to 1	14.03.09	530.1		K21.9		14.03.09	Gastro-oesophageal reflux disease (GORD),
Oesophageal stenosis,	to 1	16.20.15	530.3		K22.2		16.20.10	Oesophageal disorder,
Oesophageal stricture,	to 1	16.20.16	530.3		K22.2		16.20.10	Oesophageal disorder,
Oesophageal ulcer,	to 1	16.20.17	530.2		K22.1		16.20.10	Oesophageal disorder,
Oesophagitis,	to 1	16.20.18	530.1		K20		16.20.10	Oesophageal disorder,
Oesophagitis: Barrett's,	to 1	16.20.19	530.2		K22.1		16.20.10	Oesophageal disorder,
4040 Tracheal disease								
Tracheal disease,	to 4069	16.10.09	519.1		J39.8		16.10.09	Tracheal disease,
Tracheobronchial anatomy and congenital anomalies	to 22	not relevant						
Postprocedural complications involving tracheobronchial tree	to 1965	not relevant						
Tracheal fistulae & oesophageal atresia	to 4042	not relevant						
Tracheal stent related complications	to 2710	not relevant						
Tracheal atresia,	to 4069	16.10.30	748.3		Q32.1		16.10.09	Tracheal disease,
Tracheal stenosis,	to 4069	16.10.01	519.1		J39.8		16.10.01	Tracheal stenosis,
Tracheal stenosis: acquired,	to 4069	16.10.24	519.1	E879.8	J39.8	T88.8	16.10.01	Tracheal stenosis,
Tracheal stenosis: post intubation,	to 4069	16.10.10	519.1	E879.8	J39.8	T88.8	16.10.01	Tracheal stenosis,
Tracheal stenosis: traumatic,	to 4069	16.10.11	519.1	862.2	J39.8	S27.5	16.10.01	Tracheal stenosis,

Tracheal stenosis due to tumour,	to 4069	16.10.12	519.1	M8000/1	J39.8	D38.1	16.10.01	Tracheal stenosis,
Tracheal stenosis due to benign tumour,	to 4069	16.10.13	519.1	M8000/0	J39.8	D14.2	16.10.01	Tracheal stenosis,
Tracheal stenosis due to malignant tumour,	to 4069	16.10.14	519.1	M8000/3	J39.8	C33	16.10.01	Tracheal stenosis,
Tracheal stenosis due to external compression,	to 4069	16.10.16	519.1		J39.8		16.10.01	Tracheal stenosis,
Tracheal stenosis due to external compression: vascular,	to 4069	16.10.17	519.1		J39.8		16.10.01	Tracheal stenosis,
Tracheal stenosis due to external compression: tumour,	to 4069	16.10.18	519.1		J39.8		16.10.01	Tracheal stenosis,
Tracheal stenosis due to external compression: cardiac,	to 4069	16.10.19	519.1		J39.8		16.10.01	Tracheal stenosis,
Tracheal stenosis due to granulation tissue,	to 4069	16.10.23	519.1		J39.8		16.10.01	Tracheal stenosis,
Tracheal tear-disruption,	to 4069	16.10.20	519.1		J39.8		16.10.09	Tracheal disease,
Tracheal stent related complications	to 2710	not relevant						
Tracheomalacia - acquired,	to 4069	16.10.02	519.1		J39.8		16.10.09	Tracheal disease,
Tracheal tumour,	to 4048	16.10.31	239.1		D38.1		16.10.09	Tracheal disease,
Tracheal tumour: primary,	to 4048	16.10.32	162.0		C33		16.10.09	Tracheal disease,
Tracheal tumour: secondary,	to 4048	16.10.33	162.0		C78.3		16.10.09	Tracheal disease,

4042 Tracheal fistulae & oesophageal atresia

Tracheo-oesophageal fistula,	to 4069	14.03.08	750.3		C39.2		14.03.08	Tracheo-oesophageal fistula,
Oesophageal atresia,	to 1	16.10.70	750.3		C39.0		14.03.08	Tracheo-oesophageal fistula,
Oesophageal atresia: congenital,	to 1	16.10.92	750.3		C39.0		14.03.08	Tracheo-oesophageal fistula,
Oesophageal atresia without fistula (Gross Vogt type A),	to 1	16.10.71	750.3		C39.0		14.03.08	Tracheo-oesophageal fistula,
Tracheo-oesophageal fistula: congenital,	to 1	16.10.72	750.3		C39.2		14.03.08	Tracheo-oesophageal fistula,
Tracheo-oesophageal fistula between proximal oesophagus & trachea with oesophageal atresia (Gross Vogt type B),	to 1	16.10.73	750.3		C39.1		14.03.08	Tracheo-oesophageal fistula,
Tracheo-oesophageal fistula between distal oesophagus & trachea with oesophageal atresia (Gross Vogt type C),	to 1	16.10.74	750.3		C39.1		14.03.08	Tracheo-oesophageal fistula,
Tracheo-oesophageal fistula between proximal & distal segments of oesophagus & trachea with oesophageal atresia (Gross Vogt type D),	to 1	16.10.75	750.3		C39.1		14.03.08	Tracheo-oesophageal fistula,
Tracheo-oesophageal fistula without oesophageal atresia: H type (Gross Vogt type E),	to 4069	16.10.76	750.3		C39.2		14.03.08	Tracheo-oesophageal fistula,
Tracheo-oesophageal fistula: acquired,	to 4069	16.10.87	530.8		J86.0		14.03.08	Tracheo-oesophageal fistula,
Tracheo-oesophageal fistula due to stent erosion,	to 4069	16.10.88	530.8		J86.0		14.03.08	Tracheo-oesophageal fistula,
Tracheo-vascular fistula,	to 4069	16.10.89	447.2	519.1	I77.2	J39.8	16.10.09	Tracheal disease,
Tracheo-aortic fistula,	to 4069	16.10.90	447.2	519.1	I77.2	J39.8	16.10.09	Tracheal disease,
Tracheo-aortic fistula: congenital,	to 4069	16.10.91	748.3		C32.1		16.10.09	Tracheal disease,
Tracheo-aortic fistula: acquired,	to 4069	16.10.77	447.2	519.1	I77.2	J39.8	16.10.09	Tracheal disease,
Tracheo-aortic fistula due to stent erosion,	to 4069	16.10.78	447.2	519.1	I77.2	J39.8	16.10.09	Tracheal disease,
Tracheo-innominate arterial fistula,	to 4069	16.10.79	447.2	519.1	I77.2	J39.8	16.10.09	Tracheal disease,
Tracheo-innominate arterial fistula: congenital,	to 4069	16.10.80	748.3		C32.1		16.10.09	Tracheal disease,
Tracheo-innominate arterial fistula: acquired,	to 4069	16.10.81	447.2	519.1	I77.2	J39.8	16.10.09	Tracheal disease,
Tracheo-innominate arterial fistula due to stent erosion,	to 4069	16.10.82	447.2	519.1	I77.2	J39.8	16.10.09	Tracheal disease,
Tracheo-pulmonary arterial fistula,	to 4069	16.10.83	530.8		J86.0		16.10.09	Tracheal disease,
Tracheo-pulmonary arterial fistula: congenital,	to 4069	16.10.84	747.3		C25.7		16.10.09	Tracheal disease,
Tracheo-pulmonary arterial fistula: acquired,	to 4069	16.10.85	530.8		J86.0		16.10.09	Tracheal disease,
Tracheo-pulmonary arterial fistula due to stent erosion,	to 4069	16.10.86	530.8		J86.0		16.10.09	Tracheal disease,

4048 @ Types of noncardiac thoracic cancers - qualifiers

- nonsmall cell carcinoma,	to 1	Q1.70.43						not relevant
- nonsmall cell carcinoma: adenocarcinoma,	to 1	Q1.70.44		M8140/3		M8140/3		not relevant
- nonsmall cell carcinoma: bronchioalveolar cell carcinoma,	to 1	Q1.70.45		M8250/3		M8250/3		not relevant
- nonsmall cell carcinoma: scar adenocarcinoma,	to 1	Q1.70.46		M8140/3		M8140/3		not relevant
- nonsmall cell carcinoma: large cell,	to 1	Q1.70.47		M8012/3		M8012/3		not relevant
- nonsmall cell carcinoma: squamous cell,	to 1	Q1.70.48		M8070/3		M8070/3		not relevant
- small cell carcinoma,	to 1	Q1.70.49		M8041/3		M8041/3		not relevant
- carcinoid (Kulchitsky cell carcinoma),	to 1	Q1.70.50		M8240/3		M8240/3		not relevant
- carcinoid (Kulchitsky cell carcinoma): typical carcinoid (KCC I),	to 1	Q1.70.51		M8240/3		M8240/3		not relevant
- carcinoid (Kulchitsky cell carcinoma): atypical carcinoid (KCC II),	to 1	Q1.70.52		M8240/3		M8240/3		not relevant
- leiomyoma,	to 1	Q1.70.53		M8890/0		M8890/0		not relevant
no entry	to 1	not relevant						

4050 Sternal and sternoclavicular disease

Sternal disease,	to 1	16.40.01	733.9		M89.9		14.03.29	Thoracic-mediastinal abnormality,
Sternal deficiency,	to 594	16.40.02	733.9		M89.9		14.03.29	Thoracic-mediastinal abnormality,
Sternal deficiency due to infection,	to 627	16.40.03	733.9		M89.9		14.03.29	Thoracic-mediastinal abnormality,
Sternal fistula,	to 1	16.40.04	510.9		J86.0		14.03.29	Thoracic-mediastinal abnormality,
Sternal tumour,	to 4048	16.40.05	239.2		D48.0		14.03.29	Thoracic-mediastinal abnormality,
Sternal tumour: primary,	to 4048	16.40.06	239.2		D48.0		14.03.29	Thoracic-mediastinal abnormality,
Sternal tumour: metastatic,	to 4048	16.40.07	198.5		C79.5		14.03.29	Thoracic-mediastinal abnormality,
Sternal tumour: from primary lung tumour,	to 4048	16.40.08	198.5		C79.5		14.03.29	Thoracic-mediastinal abnormality,
Sternal fracture,	to 594	16.40.09	807.2		S22.2		14.03.29	Thoracic-mediastinal abnormality,
Sternal infection,	to 627	16.40.10	730.9		M86.9		14.03.29	Thoracic-mediastinal abnormality,
Sternal abscess,	to 627	16.40.12	730.9		M86.9		14.03.29	Thoracic-mediastinal abnormality,
Sternal abscess without prior median sternotomy,	to 627	16.40.11	682.2		L02.2		14.03.29	Thoracic-mediastinal abnormality,
Sternal nonunion,	to 594	16.40.13	733.8		M84.1		14.03.29	Thoracic-mediastinal abnormality,
Sternoclavicular dislocation (disarticulation),	to 1	16.40.30	839.6		S43.2		14.03.29	Thoracic-mediastinal abnormality,
Sternoclavicular dislocation (disarticulation): right,	to 1	16.40.31	839.6		S43.2		14.03.29	Thoracic-mediastinal abnormality,
Sternoclavicular dislocation (disarticulation): left,	to 1	16.40.32	839.6		S43.2		14.03.29	Thoracic-mediastinal abnormality,
Median sternotomy complications & sequelae	to 1855	not relevant						

4069 @ Tracheal disease characteristics - qualifiers

- localised (less than 50% tracheal length),	to 1	Q1.70.01						not relevant
- long segment (more than 50% tracheal length),	to 1	Q1.70.02						not relevant
- upper third of trachea,	to 1	Q1.70.20						not relevant
- middle third of trachea,	to 1	Q1.70.21						not relevant
- lower third of trachea,	to 1	Q1.70.22						not relevant
- complete tracheal ring(s) present,	to 1	Q1.70.24						not relevant
- complete tracheal rings: 0,	to 1	Q1.70.03						not relevant
- complete tracheal rings: 1,	to 1	Q1.70.04						not relevant
- complete tracheal rings: 2,	to 1	Q1.70.05						not relevant
- complete tracheal rings: 3,	to 1	Q1.70.06						not relevant
- complete tracheal rings: 4,	to 1	Q1.70.07						not relevant
- complete tracheal rings: 5,	to 1	Q1.70.08						not relevant
- complete tracheal rings: 6,	to 1	Q1.70.09						not relevant
- complete tracheal rings: 7,	to 1	Q1.70.10						not relevant
- complete tracheal rings: 8,	to 1	Q1.70.11						not relevant
- complete tracheal rings: 9,	to 1	Q1.70.12						not relevant
- complete tracheal rings: 10,	to 1	Q1.70.13						not relevant
- complete tracheal rings: 11,	to 1	Q1.70.14						not relevant
- complete tracheal rings: 12,	to 1	Q1.70.15						not relevant
- complete tracheal rings: 13,	to 1	Q1.70.16						not relevant
- complete tracheal rings: 14,	to 1	Q1.70.17						not relevant
- complete tracheal rings: 15,	to 1	Q1.70.18						not relevant
- complete tracheal rings: 16,	to 1	Q1.70.19						not relevant
- all tracheal rings complete,	to 1	Q1.70.23						not relevant
no entry	to 1	not relevant						

END OF SECTION

4200 Thoracic, pleural, tracheal, bronchial, lung & gastro-oesophageal procedures

Chest wall-mediastinal procedures	to 4205	not relevant						
Pleural procedures	to 4220	not relevant						
Tracheal and bronchial procedures	to 4230	not relevant						
Lung procedures	to 4255	not relevant						
Thymus procedures	to 4260	not relevant						
Thyroid procedures	to 4282	not relevant						
Gastro-oesophageal procedures	to 4280	not relevant						
Diaphragm procedures	to 4285	not relevant				12.80.00		Thoracic-mediastinal procedure,
Thoraco-mediastinal procedure,	to 1000	12.80.00				12.80.00		Thoracic-mediastinal procedure,
Thoracic procedure,	to 1000	12.80.20				12.80.00		Thoracic-mediastinal procedure,
Thoracic lymph node biopsy,	to 4305	12.64.92				12.80.00		Thoracic-mediastinal procedure,
Thoracoscopic approach (VATS),	to 1795	12.40.06				12.40.06		Video-assisted thoracoscopic approach (VATS),
Video assisted thoracoscopy (VATS),	to 1795	12.80.71				12.40.06		Video-assisted thoracoscopic approach (VATS),
Thoracostomy with tube,	to 4325	12.80.72				12.40.06		Video-assisted thoracoscopic approach (VATS),
Thoracic & gastrointestinal surgery qualifiers	to 4300	not relevant						

4205 Chest wall-mediastinal procedures

Thoracoplasty procedures	to 4210	not relevant						
Procedures involving preceding or previous chest wall incisions	to 1575	not relevant						
Chest wall reconstruction procedures	to 4217	not relevant						
Biopsy of chest wall lesion,	to 1000	12.65.01				12.80.00		Thoracic-mediastinal procedure,
Excision of chest wall lesion,	to 1000	12.65.02				12.80.00		Thoracic-mediastinal procedure,
Excision of chest wall lesion & underlying lung resection,	to 1000	12.65.03				12.80.00		Thoracic-mediastinal procedure,
Excision of chest wall lesion & underlying lung resection with prosthetic reconstruction,	to 1000	12.65.36				12.80.00		Thoracic-mediastinal procedure,
Excision of chest wall lesion & underlying lung resection without prosthetic reconstruction,	to 1000	12.65.37				12.80.00		Thoracic-mediastinal procedure,
Excision of chest wall lesion: radical with rib(s),	to 1000	12.65.07				12.80.00		Thoracic-mediastinal procedure,
Excision of chest wall lesion: radical with rib(s) & chest wall reconstruction,	to 1000	12.65.20				12.80.00		Thoracic-mediastinal procedure,
Excision of chest wall soft tissue lesion: radical,	to 1000	12.65.08				12.80.00		Thoracic-mediastinal procedure,
Excision of chest wall deep subfascial lesion,	to 1000	12.65.09				12.80.00		Thoracic-mediastinal procedure,
Excision of chest wall subcutaneous lesion,	to 1000	12.65.10				12.80.00		Thoracic-mediastinal procedure,

Suture of chest wall,	to 1000	12.65.04	12.80.00	Thoracic-mediastinal procedure,
Chest wall hernia repair,	to 4325	12.65.38	12.80.00	Thoracic-mediastinal procedure,
Mediastinal exploration,	to 1000	12.65.05	12.65.05	Mediastinal exploration,
Mediastinal procedure,	to 1000	12.65.06	12.65.06	Mediastinal procedure,
Mediastinal lymphadenectomy,	to 1000	12.65.17	12.65.06	Mediastinal procedure,
Mediastinal biopsy,	to 1000	12.65.18	12.65.06	Mediastinal procedure,
Intercostal nerve block,	to 4325	12.65.39	12.80.00	Thoracic-mediastinal procedure,
Anterior spinal release and exposure procedure,	to 1000	12.65.40	12.80.00	Thoracic-mediastinal procedure,
Thoracic sympathectomy,	to 4325	12.80.70	12.80.00	Thoracic-mediastinal procedure,
4210 Thoracoplasty procedures				
Plombage procedures	to 4215	not relevant		
Thoracoplasty,	to 1000	12.65.30	12.80.00	Thoracic-mediastinal procedure,
Thoracoplasty: right,	to 1000	12.65.31	12.80.00	Thoracic-mediastinal procedure,
Thoracoplasty: left,	to 1000	12.65.32	12.80.00	Thoracic-mediastinal procedure,
Thoracoplasty with collapse therapy,	to 1000	12.65.33	12.80.00	Thoracic-mediastinal procedure,
Thoracoplasty with plombage therapy,	to 1000	12.65.34	12.80.00	Thoracic-mediastinal procedure,
Thoracoplasty: Schede type,	to 1000	12.65.35	12.80.00	Thoracic-mediastinal procedure,
Limited thoracoplasty,	to 1000	12.65.11	12.80.00	Thoracic-mediastinal procedure,
Total thoracoplasty,	to 1000	12.65.12	12.80.00	Thoracic-mediastinal procedure,
Anterior chest wall (pectus) repair,	to 1000	12.65.23	12.65.23	Anterior chest wall (pectus) repair,
Pectus carinatum repair,	to 1000	12.65.13	12.65.13	Pectus carinatum repair,
Pectus carinatum repair: subperichondrial resection & sternal osteotomy (Ravitch) with strut,	to 1000	12.66.41	12.65.13	Pectus carinatum repair,
Pectus carinatum repair: subperichondrial resection & sternal osteotomy (Ravitch) without strut,	to 1000	12.66.42	12.65.13	Pectus carinatum repair,
Pectus excavatum repair,	to 1000	12.65.14	12.65.14	Pectus excavatum repair,
Pectus excavatum repair using strut,	to 1000	12.65.15	12.65.14	Pectus excavatum repair,
Pectus excavatum repair: subperichondrial resection & sternal osteotomy (Ravitch) with strut,	to 1000	12.66.43	12.65.14	Pectus excavatum repair,
Pectus excavatum repair: subperichondrial resection & sternal osteotomy (Ravitch) without strut,	to 1000	12.66.44	12.65.14	Pectus excavatum repair,
Pectus excavatum repair: minimally invasive convex bar technique (Nuss),	to 1000	12.66.45	12.65.14	Pectus excavatum repair,
Pectus excavatum repair: implant reconstruction,	to 1608	12.66.46	12.65.14	Pectus excavatum repair,
Pectus excavatum repair: unilateral costoplasty,	to 1000	12.66.47	12.65.14	Pectus excavatum repair,
Pectus excavatum repair: sternal turnover,	to 1000	12.66.48	12.65.14	Pectus excavatum repair,
Pectus excavatum repair: open with minimal cartilage resection,	to 1000	12.66.51	12.65.14	Pectus excavatum repair,
Pectus bar repositioning,	to 1000	12.66.49	12.65.23	Anterior chest wall (pectus) repair,
Pectus bar removal,	to 1000	12.66.50	12.65.23	Anterior chest wall (pectus) repair,
Prosthetic repair of chest wall,	to 1000	12.65.16	12.65.23	Anterior chest wall (pectus) repair,
Reconstruction of chest wall,	to 1000	12.65.19	12.65.23	Anterior chest wall (pectus) repair,
Costal cartilage excision,	to 1000	12.65.21	12.80.00	Thoracic-mediastinal procedure,
Costal cartilage fixation,	to 1000	12.65.22	12.80.00	Thoracic-mediastinal procedure,
4215 Plombage procedures				
Insertion of plomb,	to 1000	12.65.24	12.80.00	Thoracic-mediastinal procedure,
Removal of plomb,	to 1000	12.65.25	12.80.00	Thoracic-mediastinal procedure,
Removal of plomb with decortication,	to 1000	12.65.26	12.80.00	Thoracic-mediastinal procedure,
Removal of plomb with pleural cavity drainage,	to 1000	12.65.27	12.80.00	Thoracic-mediastinal procedure,
Removal of plomb with collapse of pleural cavity,	to 1000	12.65.28	12.80.00	Thoracic-mediastinal procedure,
Plombage procedure,	to 1000	12.65.29	12.80.00	Thoracic-mediastinal procedure,
4217 Chest wall reconstruction procedures				
Chest wall reconstruction,	to 4325	12.67.50	12.80.00	Thoracic-mediastinal procedure,
Sternal cleft repair,	to 4325	12.67.51	12.80.00	Thoracic-mediastinal procedure,
Sternal cleft repair: primary,	to 4325	12.67.52	12.80.00	Thoracic-mediastinal procedure,
Sternal cleft repair with prosthesis,	to 4325	12.67.53	12.80.00	Thoracic-mediastinal procedure,
Sternal fistula repair,	to 4325	12.67.54	12.80.00	Thoracic-mediastinal procedure,
Sternal fracture repair,	to 4325	12.67.55	12.80.00	Thoracic-mediastinal procedure,
Sternal tumour resection & reconstruction,	to 4325	12.67.56	12.80.00	Thoracic-mediastinal procedure,
Sternal reconstruction,	to 4325	12.67.57	12.80.00	Thoracic-mediastinal procedure,
Sternal resection & reconstruction,	to 4325	12.67.58	12.80.00	Thoracic-mediastinal procedure,
Sternal resection,	to 4325	12.67.59	12.80.00	Thoracic-mediastinal procedure,
Chest wall reconstruction for Poland's syndrome,	to 4325	12.67.60	12.80.00	Thoracic-mediastinal procedure,
Clavicular head resection,	to 4325	12.67.61	12.80.00	Thoracic-mediastinal procedure,
Clavicular head resection: right,	to 4325	12.67.62	12.80.00	Thoracic-mediastinal procedure,
Clavicular head resection: left,	to 4325	12.67.63	12.80.00	Thoracic-mediastinal procedure,
End of branch				
4220 Pleural procedures				
Chest & pleural drainage procedures	to 1566	not relevant		
Pleural biopsy,	to 4310	12.65.70	12.65.89	Pleural procedure,
Open biopsy of pleural lesion,	to 4310	12.65.71	12.65.89	Pleural procedure,
Open excision of pleural lesion,	to 4310	12.65.72	12.65.72	Open excision of pleural lesion,
Open destruction of pleural lesion,	to 4310	12.65.73	12.65.72	Open excision of pleural lesion,
Open drainage of pleural cavity,	to 4310	12.65.74	12.65.89	Pleural procedure,
Drainage of pleural cavity with rib resection,	to 4310	12.65.75	12.65.89	Pleural procedure,
Fenestration of pleura (Clagett),	to 4310	12.65.76	12.65.89	Pleural procedure,
Valved pleuroperitoneal shunt procedure,	to 4310	12.65.77	12.65.89	Pleural procedure,
Nonvalved pleuroperitoneal shunt procedure,	to 4310	12.65.78	12.65.89	Pleural procedure,
Evacuation of pleural cavity,	to 4310	12.65.79	12.65.89	Pleural procedure,
Pleurodesis,	to 4310	12.65.82	12.65.82	Pleurodesis,
Open chemical pleurodesis,	to 4310	12.65.80	12.65.82	Pleurodesis,
Open abrasive pleurodesis,	to 4310	12.65.81	12.65.82	Pleurodesis,
Pleurectomy,	to 4310	12.65.85	12.32.17	Parietal pleurectomy,
Parietal pleurectomy,	to 4310	12.32.17	12.32.17	Parietal pleurectomy,
Pleural aspiration,	to 4310	12.32.42	12.65.89	Pleural procedure,
Bronchopleural fistula closure,	to 4310	12.65.83	12.65.89	Pleural procedure,
Bronchopleural fistula closure with muscle flap,	to 4310	12.65.84	12.65.89	Pleural procedure,
Pleural procedure,	to 4310	12.65.89	12.65.89	Pleural procedure,
Obiteration of pleural space	to 4222	not relevant		
4222 Obliteration of pleural space				
Obliteration of pleural space,	to 4310	12.65.91	12.65.89	Pleural procedure,
Obliteration of pleural space using pectoralis major,	to 4310	12.65.92	12.65.89	Pleural procedure,
Obliteration of pleural space using latissimus dorsi,	to 4310	12.65.93	12.65.89	Pleural procedure,
Obliteration of pleural space using rectus abdominis,	to 4310	12.65.94	12.65.89	Pleural procedure,
Obliteration of pleural space using omentoplasty,	to 4310	12.65.95	12.65.89	Pleural procedure,
End of branch				
4230 Tracheal and bronchial procedures				
Bronchoscopic procedures	to 4233	not relevant		
Bronchial procedures	to 4235	not relevant		
Tracheostomy procedures	to 4240	not relevant		
Tracheal and tracheobronchial reconstruction procedures	to 4245	not relevant		
Procedure via established tracheostomy incision,	to 1000	12.64.90	not relevant	
Tracheal procedure,	to 1000	12.64.20	12.64.20	Tracheal procedure,
Tracheopexy,	to 1000	12.64.93	12.64.20	Tracheal procedure,
4233 Bronchoscopic procedures				
Bronchoscopy,	to 1000	12.64.00	12.64.00	Bronchoscopy,
Bronchogram,	to 1000	12.64.85	12.64.00	Bronchoscopy,
Rigid bronchoscopy,	to 1000	12.64.01	12.64.00	Bronchoscopy,
Fibreoptic flexible bronchoscopy,	to 1000	12.64.02	12.64.00	Bronchoscopy,
Rigid & flexible bronchoscopy,	to 1000	12.64.18	12.64.00	Bronchoscopy,
Bronchial biopsy,	to 1000	12.64.80	12.64.00	Bronchoscopy,
Transbronchial biopsy,	to 3300	12.64.03	12.64.00	Bronchoscopy,
Transbronchial biopsy: with fluoroscopic guidance,	to 3300	12.64.81	12.64.00	Bronchoscopy,
Transbronchial biopsy: without fluoroscopic guidance,	to 3300	12.64.82	12.64.00	Bronchoscopy,
Transbronchial biopsy: needle aspiration,	to 3300	12.64.83	12.64.00	Bronchoscopy,
Endobronchial biopsy,	to 3300	12.64.04	12.64.00	Bronchoscopy,
Bronchoscopic diagnostic procedure,	to 1000	12.64.11	12.64.00	Bronchoscopy,
Bronchoscopic procedure for bleeding,	to 1000	12.64.89	12.64.00	Bronchoscopy,
Bronchoscopic laser procedure,	to 4315	12.64.12	12.64.00	Bronchoscopy,
Bronchoscopic radiofrequency procedure,	to 4315	12.64.13	12.64.00	Bronchoscopy,
Bronchoscopic balloon dilation procedure,	to 4315	12.64.14	12.64.00	Bronchoscopy,
Bronchoscopic cryotherapy procedure,	to 4315	12.64.88	12.64.00	Bronchoscopy,
Bronchoscopy and bronchoalveolar lavage,	to 3300	12.64.05	12.64.00	Bronchoscopy,
Bronchoscopy with bronchial brushings,	to 3300	12.64.06	12.64.00	Bronchoscopy,
Bronchoscopic sampling of secretions,	to 3300	12.64.07	12.64.00	Bronchoscopy,
Bronchoscopic removal of foreign body,	to 3300	12.64.08	12.64.08	Bronchoscopic removal of foreign body,
Bronchoscopic removal of granulation tissue,	to 3300	12.64.87	12.64.00	Bronchoscopy,
Bronchoscopic tumour excision,	to 3300	12.64.84	12.64.00	Bronchoscopy,
Bronchoscopic placement of catheter for intracavitary radiotherapy,	to 3300	12.64.86	12.64.00	Bronchoscopy,
Bronchoscopic placement of stent,	to 4315	12.64.09	12.64.00	Bronchoscopy,
Bronchoscopic closure of fistula,	to 3300	12.64.10	12.64.00	Bronchoscopy,
Bronchoscopic adjustment of stent,	to 4315	12.64.15	12.64.00	Bronchoscopy,

	Bronchoscopic repositioning of stent,	to 4315	12.64.94	12.64.00	Bronchoscopy,
	Bronchoscopic dilation of stent,	to 4315	12.64.16	12.64.00	Bronchoscopy,
	Bronchoscopic removal of stent,	to 4315	12.64.17	12.64.00	Bronchoscopy,
	Bronchoscopic procedure,	to 3300	12.64.19	12.64.00	Bronchoscopy,
4235	Bronchial procedures				
	Bronchial procedure,	to 4315	12.64.91	12.80.00	Thoracic-mediastinal procedure,
	Bronchial balloon dilation,	to 4315	12.67.01	12.80.00	Thoracic-mediastinal procedure,
	Bronchial stent placement,	to 4315	12.67.19	12.80.00	Thoracic-mediastinal procedure,
	Bronchial stent dilation,	to 4315	12.67.20	12.80.00	Thoracic-mediastinal procedure,
	Bronchial stent repositioning,	to 4315	12.67.21	12.80.00	Thoracic-mediastinal procedure,
	Bronchial stent removal,	to 4315	12.67.22	12.80.00	Thoracic-mediastinal procedure,
	Bronchial foreign body removal,	to 979	12.67.02	12.80.00	Thoracic-mediastinal procedure,
	Bronchial tumour biopsy,	to 4315	12.67.03	12.80.00	Thoracic-mediastinal procedure,
	Bronchial tumour debulking,	to 4315	12.67.04	12.80.00	Thoracic-mediastinal procedure,
	Bronchial tumour laser treatment,	to 4315	12.67.05	12.80.00	Thoracic-mediastinal procedure,
	Bronchial tumour removal,	to 4315	12.67.06	12.80.00	Thoracic-mediastinal procedure,
	Bronchial tumour resection,	to 4315	12.67.07	12.80.00	Thoracic-mediastinal procedure,
	Bronchial tumour stenting,	to 4315	12.67.08	12.80.00	Thoracic-mediastinal procedure,
	Bronchoplasty,	to 4315	12.64.57	12.64.40	Tracheobronchial reconstruction procedure,
	Bronchoplasty: using graft,	to 4315	12.64.58	12.64.40	Tracheobronchial reconstruction procedure,
	Enlargement right bronchoplasty,	to 1000	12.64.44	12.64.40	Tracheobronchial reconstruction procedure,
	Enlargement left bronchoplasty,	to 1000	12.64.45	12.64.40	Tracheobronchial reconstruction procedure,
	Bronchoplasty using autograft,	to 1610	12.67.09	12.64.40	Tracheobronchial reconstruction procedure,
	Bronchoplasty using homograft,	to 1600	12.67.10	12.64.40	Tracheobronchial reconstruction procedure,
	Bronchoplasty using heterograft,	to 1612	12.67.11	12.64.40	Tracheobronchial reconstruction procedure,
	Bronchoplasty using rib cartilage,	to 4315	12.67.12	12.64.40	Tracheobronchial reconstruction procedure,
	Bronchoplasty with sleeve resection,	to 4315	12.67.13	12.64.40	Tracheobronchial reconstruction procedure,
	Bronchoplasty: slide technique,	to 4315	12.67.14	12.64.40	Tracheobronchial reconstruction procedure,
	Bronchial stenosis excision & reanastomosis,	to 4315	12.64.59	12.64.40	Tracheobronchial reconstruction procedure,
	Bronchial anastomosis revision,	to 4315	12.64.56	12.64.40	Tracheobronchial reconstruction procedure,
	Bronchial disruption repair,	to 4315	12.67.15	12.64.40	Tracheobronchial reconstruction procedure,
	Bronchial tear repair,	to 4315	12.67.16	12.64.40	Tracheobronchial reconstruction procedure,
	Bronchial resection with end-to-end anastomosis,	to 4315	12.67.17	12.64.40	Tracheobronchial reconstruction procedure,
	Bronchial resection of granulation tissue,	to 4315	12.67.18	12.64.40	Tracheobronchial reconstruction procedure,
4236	Procedures for bronchial fistula				
	Bronchial fistula repair,	to 1000	12.67.30	12.80.00	Thoracic-mediastinal procedure,
	Bronchopleural fistula procedures	to 4220	not relevant		
	Bronchial-oesophageal fistula repair,	to 1000	12.67.31	12.80.00	Thoracic-mediastinal procedure,
	Bronchial-vascular fistula repair,	to 1000	12.67.32	12.80.00	Thoracic-mediastinal procedure,
	Bronchial-aortic fistula repair,	to 1000	12.67.33	12.80.00	Thoracic-mediastinal procedure,
	Bronchial-innominate arterial fistula repair,	to 1000	12.67.34	12.80.00	Thoracic-mediastinal procedure,
	Bronchial-pulmonary arterial fistula repair,	to 1000	12.67.35	12.80.00	Thoracic-mediastinal procedure,
4240	Tracheostomy procedures				
	Tracheostomy creation,	to 4320	12.64.21	12.64.21	Tracheostomy creation,
	Tracheostomy creation: open,	to 4320	12.64.33	12.64.21	Tracheostomy creation,
	Tracheostomy creation: emergent,	to 4320	12.64.24	12.64.21	Tracheostomy creation,
	Tracheostomy creation: percutaneous,	to 4320	12.64.35	12.64.21	Tracheostomy creation,
	Tracheostomy creation: mediastinal,	to 4320	12.64.36	12.64.21	Tracheostomy creation,
	Creation of temporary tracheostomy,	to 4320	12.64.22	12.64.21	Tracheostomy creation,
	Creation of temporary tracheostomy & insertion tracheostomy tube,	to 4320	12.64.23	12.64.21	Tracheostomy creation,
	Creation of temporary tracheostomy & insertion tracheal T-tube,	to 4320	12.64.24	12.64.21	Tracheostomy creation,
	Creation of permanent tracheostomy,	to 4320	12.64.25	12.64.21	Tracheostomy creation,
	Tracheostomy tube replacement,	to 1000	12.64.26	12.64.20	Tracheal procedure,
	Tracheostomy tube removal,	to 1000	12.64.27	12.64.20	Tracheal procedure,
	Tracheostomy granulation tissue removal,	to 1000	12.64.28	12.64.20	Tracheal procedure,
	Tracheostomy revision,	to 4320	12.64.29	12.64.20	Tracheal procedure,
	Biopsy of tracheostomy stoma,	to 1000	12.64.30	12.64.20	Tracheal procedure,
	Tracheostomy stoma exploration,	to 1000	12.64.31	12.64.20	Tracheal procedure,
	Tracheostomy stoma closure,	to 1000	12.64.32	12.64.20	Tracheal procedure,
4245	Tracheal and tracheobronchial reconstruction procedures				
	Tracheobronchial reconstruction procedure,	to 4315	12.64.40	12.64.40	Tracheobronchial reconstruction procedure,
	Segmental resection of trachea,	to 4315	12.64.41	12.64.40	Tracheobronchial reconstruction procedure,
	Tracheoplasty: enlargement,	to 4315	12.64.42	12.64.40	Tracheobronchial reconstruction procedure,
	Tracheoplasty: enlargement with rib cartilage wedge grafts,	to 4315	12.64.43	12.64.40	Tracheobronchial reconstruction procedure,
	Tracheoplasty: pericardial,	to 4315	12.64.61	12.64.40	Tracheobronchial reconstruction procedure,
	Tracheoplasty: sliding,	to 4315	12.64.67	12.64.40	Tracheobronchial reconstruction procedure,
	Tracheal reconstruction using homograft,	to 4315	12.64.62	12.64.40	Tracheobronchial reconstruction procedure,
	Tracheal resection with end-to-end anastomosis,	to 4315	12.64.63	12.64.40	Tracheobronchial reconstruction procedure,
	Tracheal mass resection,	to 4315	12.64.64	12.64.40	Tracheobronchial reconstruction procedure,
	Tracheal stenosis resection,	to 4315	12.64.65	12.64.40	Tracheobronchial reconstruction procedure,
	Tracheal tumour resection,	to 4315	12.64.66	12.64.40	Tracheobronchial reconstruction procedure,
	Tracheobronchial balloon dilation,	to 4315	12.64.60	12.64.40	Tracheobronchial reconstruction procedure,
	Tracheobronchial stent placement: open,	to 4315	12.64.46	12.64.40	Tracheobronchial reconstruction procedure,
	Tracheobronchial stent replacement: open,	to 4315	12.64.47	12.64.40	Tracheobronchial reconstruction procedure,
	Tracheobronchial stent removal: open,	to 4315	12.64.48	12.64.40	Tracheobronchial reconstruction procedure,
	Tracheobronchial stent dilation: open,	to 4315	12.64.88	12.64.40	Tracheobronchial reconstruction procedure,
	Tracheobronchial stent placement: transluminal,	to 4315	12.64.51	12.64.40	Tracheobronchial reconstruction procedure,
	Tracheobronchial stent replacement: transluminal,	to 4315	12.64.52	12.64.40	Tracheobronchial reconstruction procedure,
	Tracheobronchial stent removal: transluminal,	to 4315	12.64.53	12.64.40	Tracheobronchial reconstruction procedure,
	Tracheobronchial stent dilation: transluminal,	to 4315	12.64.69	12.64.40	Tracheobronchial reconstruction procedure,
	Tracheal reconstruction with autograft augmentation (Backer),	to 4315	12.64.54	12.64.40	Tracheobronchial reconstruction procedure,
	Tracheal anastomosis revision,	to 1000	12.64.55	12.64.40	Tracheobronchial reconstruction procedure,
	End of branch				
4255	Lung procedures				
	Lung procedure,	to 1000	12.66.00	12.66.00	Lung procedure,
	Lung biopsy procedure,	to 3300	12.32.06	12.32.06	Lung biopsy procedure,
	Lung biopsy: open,	to 3300	12.66.20	12.32.06	Lung biopsy procedure,
	Lung resection,	to 3300	12.66.10	12.66.00	Lung procedure,
	Lung wedge resection,	to 3300	12.66.08	12.66.00	Lung procedure,
	Lung decortication,	to 4310	12.66.01	12.66.01	Lung decortication,
	Lung decortication: partial,	to 4310	12.66.17	12.66.01	Lung decortication,
	Lung decortication: total,	to 4310	12.66.18	12.66.01	Lung decortication,
	Lung mass excision,	to 3300	12.66.02	12.66.02	Lung mass excision,
	Lung segment excision,	to 3300	12.66.03	12.66.00	Lung procedure,
	Lung cyst excision,	to 3300	12.66.04	12.66.02	Lung mass excision,
	Lung lobectomy,	to 3300	12.66.05	12.66.05	Lung lobectomy,
	Lung lobectomy: sleeve,	to 3300	12.66.22	12.66.05	Lung lobectomy,
	Lung bilobectomy,	to 3300	12.66.11	12.66.05	Lung lobectomy,
	Lung partial lobectomy,	to 3300	12.66.12	12.66.05	Lung lobectomy,
	Pneumonectomy,	to 3300	12.66.06	12.66.06	Pneumonectomy,
	Pneumonectomy: extrapleural,	to 3300	12.66.13	12.66.06	Pneumonectomy,
	Pneumonectomy: intrapleural,	to 3300	12.66.14	12.66.06	Pneumonectomy,
	Pneumonectomy: completion,	to 3300	12.66.15	12.66.06	Pneumonectomy,
	Pneumonectomy: sleeve,	to 3300	12.66.23	12.66.06	Pneumonectomy,
	Lung sequestration repair,	to 3300	12.66.07	12.66.07	Lung sequestration repair,
	Lung blebectomy,	to 3300	12.66.16	12.66.00	Lung procedure,
	Lung repair (pneumonorrhaphy),	to 3300	12.66.21	12.66.00	Lung procedure,
	End of branch				
4260	Thymus procedures				
	Thymus procedure,	to 1000	12.68.00	12.80.00	Thoracic-mediastinal procedure,
	Thymectomy,	to 1000	12.68.01	12.80.00	Thoracic-mediastinal procedure,
	Thymectomy: partial,	to 1000	12.68.02	12.80.00	Thoracic-mediastinal procedure,
	Thymectomy: radical,	to 1000	12.68.03	12.80.00	Thoracic-mediastinal procedure,
	Thymectomy: total,	to 1000	12.68.04	12.80.00	Thoracic-mediastinal procedure,
	Thymectomy: transcervical,	to 1000	12.68.05	12.80.00	Thoracic-mediastinal procedure,
	End of branch				
4262	Thyroid procedures				
	Thyroid procedure,	to 1000	12.68.10	12.80.00	Thoracic-mediastinal procedure,
	Thyroidectomy,	to 1000	12.68.11	12.80.00	Thoracic-mediastinal procedure,
	Thyroidectomy: radical,	to 1000	12.68.12	12.80.00	Thoracic-mediastinal procedure,
	Thyroidectomy: subtotal,	to 1000	12.68.13	12.80.00	Thoracic-mediastinal procedure,
	Thyroidectomy: total,	to 1000	12.68.14	12.80.00	Thoracic-mediastinal procedure,
	Thyroid lobectomy,	to 1000	12.68.15	12.80.00	Thoracic-mediastinal procedure,
	Thyroid lobectomy: right,	to 1000	12.68.16	12.80.00	Thoracic-mediastinal procedure,
	Thyroid lobectomy: left,	to 1000	12.68.17	12.80.00	Thoracic-mediastinal procedure,

4280 Gastro-oesophageal procedures

Oesophageal procedure,	to 1000	12.80.01	12.80.01	Oesophageal procedure,
Oesophagectomy,	to 1000	12.80.02	12.80.01	Oesophageal procedure,
Oesophagectomy: blunt transhiatal,	to 1000	12.80.03	12.80.01	Oesophageal procedure,
Oesophagectomy: blunt transhiatal & colon interposition,	to 1000	12.80.04	12.80.01	Oesophageal procedure,
Oesophagectomy: blunt transhiatal & gastric pull up,	to 1000	12.80.05	12.80.01	Oesophageal procedure,
Oesophagomyotomy,	to 1000	12.80.06	12.80.01	Oesophageal procedure,
Oesophagomyotomy: cervical,	to 1000	12.80.07	12.80.01	Oesophageal procedure,
Oesophagomyotomy: cervical - cricopharyngeal myotomy,	to 1000	12.80.08	12.80.01	Oesophageal procedure,
Oesophagomyotomy: Heller type,	to 1000	12.80.09	12.80.01	Oesophageal procedure,
Intestinal procedure,	to 1000	12.80.10	12.80.10	Intestinal procedure,
Pyloromyotomy,	to 1000	12.80.30	12.80.10	Intestinal procedure,
Pyloromyotomy: Fredet-Ramstedt type,	to 1000	12.80.31	12.80.10	Intestinal procedure,
Pyloroplasty,	to 1000	12.80.32	12.80.10	Intestinal procedure,
Pyloroplasty: Finney,	to 1000	12.80.33	12.80.10	Intestinal procedure,
Pyloroplasty: Heineke-Mikulicz,	to 1000	12.80.34	12.80.10	Intestinal procedure,
Pyloroplasty: Jaboulay,	to 1000	12.80.35	12.80.10	Intestinal procedure,
Jejunostomy: feeding,	to 1000	12.80.36	12.80.10	Intestinal procedure,
Percutaneous feeding gastrostomy tube placement (PEG),	to 1000	12.80.37	12.80.37	Percutaneous feeding gastrostomy tube placement (PEG),
Laparotomy,	to 1000	12.80.38	12.80.38	Laparotomy,
Intestinal malrotation repair,	to 1000	12.80.39	12.80.10	Intestinal procedure,
Gastroschisis repair,	to 1000	12.80.40	12.80.10	Intestinal procedure,
Gastric fundoplication (including Nissen's),	to 1000	12.80.41	12.80.10	Intestinal procedure,
Defunctioning intestinal procedure,	to 1000	12.80.42	12.80.10	Intestinal procedure,

4285 Diaphragm procedures

Diaphragm procedure,	to 1000	12.32.29	12.32.29	Diaphragm procedure,
Plication of hemidiaphragm,	to 1000	12.32.70	12.32.70	Plication of hemidiaphragm,
Plication of right hemidiaphragm,	to 1000	12.32.71	12.32.70	Plication of hemidiaphragm,
Plication of left hemidiaphragm,	to 1000	12.32.72	12.32.70	Plication of hemidiaphragm,
Diaphragmatic hernia repair,	to 4325	12.80.60	12.32.29	Diaphragm procedure,
Diaphragmatic hernia repair: congenital,	to 4325	12.80.61	12.32.29	Diaphragm procedure,
Diaphragmatic hernia repair: acquired,	to 4325	12.80.62	12.32.29	Diaphragm procedure,

4300 Thoracic & gastrointestinal surgery qualifiers

Thoracic lymph nodes qualifiers	to 4305	not relevant		
Pleural procedure and location qualifiers	to 4310	not relevant		
Anatomical siting & approach for tracheobronchial procedures - qualifiers	to 4315	not relevant		
Tracheostomy qualifiers	to 4320	not relevant		
Chest wall reconstruction qualifiers	to 4325	not relevant		

4305 @ Thoracic lymph nodes qualifiers

- axillary lymph node(s),	to 1000	Q5.63.01	not relevant
- axillary lymph node(s): right,	to 1000	Q5.63.02	not relevant
- axillary lymph node(s): left,	to 1000	Q5.63.03	not relevant
- supraclavicular,	to 1000	Q5.63.04	not relevant
- supraclavicular: right,	to 1000	Q5.63.05	not relevant
- supraclavicular: left,	to 1000	Q5.63.06	not relevant
no entry	to 1000	not relevant	

4310 @ Pleural procedure and location qualifiers

- right pleural space,	to 1000	Q5.65.01	not relevant
- left pleural space,	to 1000	Q5.65.02	not relevant
- bilateral pleural spaces,	to 1000	Q5.65.08	not relevant
- chemical,	to 1000	Q5.65.09	not relevant
- using talc,	to 1000	Q5.65.03	not relevant
- using bleomycin,	to 1000	Q5.65.04	not relevant
- using doxycycline,	to 1000	Q5.65.05	not relevant
- using tetracycline,	to 1000	Q5.65.06	not relevant
- mechanical,	to 1000	Q5.65.07	not relevant
- not chemical or mechanical,	to 1000	Q5.65.10	not relevant
- using (DESCRIBE),	to 1000	Q5.65.19	not relevant
no entry	to 1000	not relevant	

4315 @ Anatomical siting & approach for tracheobronchial procedures - qualifiers

no entry	to 1600	not relevant		
- laryngotracheal,	to 1600	Q5.64.61	not relevant	
- trachea,	to 1600	Q1.80.53	not relevant	
- trachea: cervical,	to 1600	Q5.64.70	not relevant	
- trachea: cervicothoracic,	to 1600	Q5.64.71	not relevant	
- trachea: intrathoracic,	to 1600	Q5.64.72	not relevant	
- trachea: intrathoracic with carinal,	to 1600	Q5.64.73	not relevant	
- tracheobronchial,	to 1600	Q5.64.63	not relevant	
- right bronchus,	to 1600	Q1.80.81	not relevant	
- left bronchus,	to 1600	Q1.80.82	not relevant	
- mainstem bronchus,	to 1600	Q1.80.90	not relevant	
- segmental bronchus,	to 3300	Q1.80.91	not relevant	
- distal bronchus,	to 3300	Q1.80.92	not relevant	
- at carina,	to 1600	Q1.80.80	not relevant	
- right bronchial anastomosis,	to 1600	Q5.64.66	not relevant	
- left bronchial anastomosis,	to 1600	Q5.64.67	not relevant	
- tracheal anastomosis,	to 1600	Q5.64.68	not relevant	
- site (DESCRIBE),	to 1600	Q5.64.69	not relevant	
- endoscopic approach,	to 1600	Q5.64.74	not relevant	
- fluoroscopic control only,	to 1600	Q5.64.75	not relevant	
- endoscopic approach with fluoroscopy,	to 1600	Q5.64.76	not relevant	
- bronchoscopic approach,	to 1600	Q5.64.77	not relevant	
- bronchoscopic approach: flexible,	to 1600	Q5.64.78	not relevant	
- bronchoscopic approach: rigid,	to 1600	Q5.64.79	not relevant	
- bronchoscopic approach: flexible & rigid,	to 1600	Q5.64.80	not relevant	
- surgical approach,	to 1000	Q5.81.12	not relevant	
Stent related qualifiers	to 1650	not relevant		

4320 @ Tracheostomy qualifiers

- via cricothyroid membrane,	to 1000	Q5.64.81	not relevant	
- Shiley,	to 1000	Q5.64.82	not relevant	
- Shiley size 8,	to 1000	Q5.64.83	not relevant	
- with flap rotation (complex),	to 1000	Q5.64.84	not relevant	
- without flap rotation (simple),	to 1000	Q5.64.85	not relevant	
no entry	to 1000	not relevant		

4325 @ Chest wall reconstruction qualifiers

- with prosthesis,	to 1000	Q5.45.05	not relevant	
- without prosthesis,	to 1000	Q5.45.06	not relevant	
- right-sided,	to 1000	Q1.90.65	not relevant	
- left-sided,	to 1000	Q1.90.66	not relevant	
- with diaphragm repair,	to 1000	Q5.45.07	not relevant	
- without diaphragm repair,	to 1000	Q5.45.08	not relevant	
- with mesh,	to 1000	Q5.45.09	not relevant	
- without mesh,	to 1000	Q5.45.18	not relevant	
- with mesh & methylmethacrylate sandwich,	to 1000	Q5.45.10	not relevant	
- with mesh & methylmethacrylate sandwich & muscle flaps,	to 1000	Q5.45.11	not relevant	
- with mesh & muscle flaps,	to 1000	Q5.45.12	not relevant	
- with marlex mesh,	to 1000	Q5.45.13	not relevant	
- with marlex mesh & methylmethacrylate sandwich,	to 1000	Q5.45.14	not relevant	
- with marlex mesh & methylmethacrylate sandwich & muscle flaps,	to 1000	Q5.45.15	not relevant	
- with marlex mesh & muscle flaps,	to 1000	Q5.45.16	not relevant	
- with muscle flaps,	to 1000	Q5.45.17	not relevant	
- status receiving extracorporeal life support therapy (ECMO),	to 1000	Q1.91.65	not relevant	
- status post extracorporeal life support therapy (ECMO),	to 1000	Q1.91.66	not relevant	
- status not post extracorporeal life support therapy (ECMO),	to 1000	Q1.91.67	not relevant	
- delayed intracardiac procedure,	to 1000	Q5.81.19	not relevant	
- previous intracardiac procedure,	to 1000	Q5.81.20	not relevant	
- simultaneous intracardiac procedure,	to 1000	Q5.81.21	not relevant	
- with simultaneous breast reconstruction,	to 1000	Q5.45.19	not relevant	
- with simultaneous breast reconstruction: augmentation mammoplasty,	to 1000	Q5.45.20	not relevant	
no entry	to 1000	not relevant		