	EPCC code	ICD-9	ICD-9 additiona	ICD-10	ICD-10 additional	STS/EACTS equivalent: January 2010
Diagnostic congenital and generic cardiac codes			auditiona	ı	auditional	
Normal heart,	01.01.00	nc		nc		Normal heart
Laevocardia: heart predominantly in left hemithorax,	02.01.03	nc		nc		Levocardia
Normal atrial arrangement (situs), atrioventricular & ventriculo-arterial connections, Usual atrial arrangement (atrial situs solitus),	01.03.10 01.03.00	nc nc		nc nc		
Concordant ventriculo-arterial connections, Innocent murmur.	01.05.00 10.12.01	nc 785.2		nc R01.0		
Abnormalities of position and connection of heart						
Position-orientation of heart abnormal,	02.01.09	746.8		Q24.8		Cardiac, Other
Dextrocardia: heart predominantly in right hemithorax, Mildine heart (mesocardia)	02.01.02 02.01.04	746.8 746.8		Q24.0 Q24.8		Dextrocardia Mesocardia
Position or morphology of thoraco-abdominal organs abnormal,	03.01.09	759.9		Q89.9		Thoracic and-or mediastinal, Other
Lung anomaly, Functionally congenital single lung,	03.02.09 03.02.14	748.9 748.5		Q33.8 Q33.2		Thoracic and-or mediastinal, Other Thoracic and-or mediastinal, Other
Tracheobronchial anomaly, Visceral heterotaxy (abnormal arrangement thoraco-abdominal organs),	03.03.05 03.01.02	748.3 759.3		Q32.4 Q20.6		Thoracic and-or mediastinal, Other Heterotaxia syndrome
Abnormal atrial arrangement, Total mirror imagery (situs inversus),	01.03.06 03.01.03	746.9 759.3		Q20.9 Q89.3		Cardiac, Other Situs inversus
Right isomerism ('asplenia'),	03.01.04	746.8		Q20.6		Atrial isomerism, Right
Left isomerism ('polysplenia'),	03.01.05	746.8		Q20.6		Atrial isomerism, Left
Atrioventricular and-or ventriculo-arterial connections abnormal, Double inlet atrioventricular connection (double inlet ventricle),	01.03.09 01.01.14	746.9 745.3		Q20.9 Q20.4		Cardiac, Other Single ventricle
Double inlet right ventricle, Double inlet left ventricle,	01.04.03 01.04.04	745.3 745.3		Q20.4 Q20.4		Single ventricle, DIRV Single ventricle, DILV
Tricuspid atresia,	06.01.01 06.02.01	746.1		Q22.4 Q23.2		Single ventricle, Tricuspid atresia Single ventricle, Mitral atresia
Mitral atresia, Solitary ventricle of indeterminate morphology,	02.03.05	746.8 745.3		Q20.4		Single ventricle, white are sa Single ventricle, Other
Discordant ventriculo-arterial connections (TGA),	01.05.01	745.1		Q20.3		TGA
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),	01.01.02	745.1 745.1		Q20.3 Q20.5		TGA, IVS Congenitally corrected TGA
Double outlet right ventricle,	01.01.04	746.8		Q20.1 Q20.1		DORV
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),	01.01.18	746.8 746.8		Q20.1		DORV, TOF type DORV, TGA type
Double outlet right ventricle: with non-committed ventricular septal defect, Double outlet right ventricle: subaortic or doubly committed ventricular septal defect without pulmonary stenosis ('VSD type'),	01.01.19 01.01.40	746.8 746.8		Q20.1 Q20.1		DORV, Remote VSD (Uncommitted VSD) DORV, VSD type
Double outlet right ventricle: with intact ventricular septum, Double outlet left ventricle	01.01.24 01.05.03	746.8 746.8		Q20.1 Q20.2		DORV, NS DOLV
Common arterial trunk (truncus arteriosus),	09.01.01	745.0		Q20.0		Truncus arteriosus
Concordant VA connections with parallel great arteries (anatomically corrected malposition),	01.05.10	746.9		Q20.8		Cardiac, Other
Tetralogy of Fallot and variants						
Tetralogy of Fallot, Pulmonary atresia + ventricular septal defect (VSD) (including Fallot type),	01.01.01 01.01.06	745.2 745.2		Q21.3 Q21.3		TOF Pulmonary atresia, VSD (including TOF, PA)
Pulmonary atresia + ventricular septal defect (VSD) + systemic-to-pulmonary collateral artery(ies) (MAPCA(s)),	01.01.25 09.05.25	745.2 746.8	747.9 746.0	Q21.3 Q24.8	Q27.8 Q22.3	Pulmonary atresia: VSD: MAPCA (pseudotruncus) TOF, Absent Pulmonary Valve
Absent pulmonary valve syndrome: Fallot-type, Solitary arterial trunk (absent intrapericardial pulmonary arteries),	09.07.26	745.2	/46.0	Q25.7	Q22.3	Cardiac, Other
Major systemic-to-pulmonary collateral artery(ies) (MAPCA(s)), Systemic-to-pulmonary collateral arter(ies) (MAPCA(s)) stenosis(es),	09.08.01 09.20.25	747.9 747.9		Q27.8 Q27.8		MAPCA(s) (major aortopulmonary collateral[s]) (without PA-VSD) MAPCA(s) (major aortopulmonary collateral[s]) (without PA-VSD)
Abnormalities of great veins						
Superior caval vein (SVC) abnormality,	04.01.00	747.4		Q26.9		Systemic venous anomaly
Left superior caval vein (SVC) persisting to coronary sinus,	04.01.01 04.03.00	747.4 747.4		Q26.1 Q26.9		Systemic venous anomaly Systemic venous anomaly
Inferior caval vein (NC) abnormality, Inferior caval vein (NC) interruption (absent suprarenal segment) with azygos continuation,	04.03.10	747.4		Q26.8		Systemic venous anomaly
Hepatic vein abnormality, Systemic vein abnormality congenital,	04.02.00 04.05.00	747.4 747.4		Q26.8 Q26.9		Systemic venous anomaly Systemic venous anomaly
Systemic venovenous collateral(s),	04.00.06	747.4		Q26.8		Systemic venous anomaly
Pulmonary vein abnormality, Pulmonary vein stenosis.	04.08.00 04.08.91	747.4 747.4		Q26.9 Q26.8		Cardiac, Other Pulmonary venous stenosis
Totally anomalous pulmonary venous connection, Totally anomalous pulmonary venous connections: supracardiac,	04.08.05 04.06.00	747.4 747.4		Q26.2 Q26.2		Total anomalous pulmonary venous connection Total anomalous pulmonary venous connection (TAPVC), Type 1 (supracardiac)
Totally anomalous pulmonary venous connections: intracardiac,	04.08.10 04.08.20	747.4		Q26.2 Q26.2		Total anomalous pulmonary venous connection (TAPVC), Type 2 (cardiac)
Totally anomalous pulmonary venous connections: infracardiac, Totally anomalous pulmonary venous connections: mixed,	04.08.30	747.4 747.4		Q26.2		Total anomalous pulmonary venous connection (TAPVC), Type 3 (infracardiac) Total anomalous pulmonary venous connection (TAPVC), Type 4 (mixed)
Partially anomalous pulmonary venous connection(s), Partially anomalous pulmonary venous connection: Scimitar syndrome,	04.07.01 01.01.16	747.4 747.4		Q26.3 Q26.8		Partial anomalous pulmonary venous connection (PAPVC) Partial anomalous pulmonary venous connection (PAPCVC), Scimitar
Obstructed pulmonary venous connection(s),	04.08.06	747.4		Q26.4		Cardiac, Other
Coronary sinus abnormality,	04.04.00	746.8		Q24.5		Cardiac, Other
Abnormalities of atriums and atrial septum						
Right atrial abnormality,	05.01.00 05.02.00	746.9		Q20.8 Q20.8		Cardiac, Other
Left atrial abnormality, Cor triatriatum (divided left atrium),	05.02.01	746.9 746.8		Q24.2		Cardiac, Other Cor triatriatum
Intact atrial septum (no interatrial communication),	05.03.10	nc		nc		
Atrial septum abnormality, Patent foramen ovale (PFO),	05.03.00 05.03.01	745.5 745.5		Q21.9 Q21.1		Cardiac, Other
Interatrial communication (ASD), Afrial sental defect (ASD within oval fossa (secundum).	05.04.01 05.04.02	745.5 745.5		Q21.1 Q21.1		ASD ASD, Secundum
Spontaneous closure of atrial septal defect (ASD) within oval fossa (secundum),	05.04.03	nc		nc		
Sinus venosus defect (ASD), Common atrium (virtual absence of atrial septum),	05.05.00 05.06.01	745.5 745.6		Q21.1 Q21.2		ASD, sinus venosum ASD, Common atrium (single atrium)
Interatrial communication (ASD) through coronary sinus orifice,	05.05.03	745.5		Q21.1		ASD, Coronary sinus
Abnormalities of atrioventricular valves and atrioventricular septal defect						
Tricuspid valvar abnormality, Tricuspid regurgitation	06.01.00 06.01.91	746.9 746.8		Q22.9 Q22.8		Tricuspid valve, Other Tricuspid regurgitation, non-Ebstein's related
Tricuspid regurgitation: congenital,	06.01.25 06.01.03	746.8		Q22.8 Q22.8		Tricuspid regurgitation, non-Ebstein's related
Tricuspid valvar dysplasia, Straddling tricuspid valve,	06.01.09	746.9 746.9		Q22.8		Tricuspid valve, Other Tricuspid valve, Other
Ebstein's malformation of tricuspid valve, Tricuspid stenosis,	06.01.34 06.01.92	746.2 746.1		Q22.5 Q22.4		Ebstein's anomaly Tricuspid stenosis
Mitral sterosis,	06.02.92	746.5		Q23.2		Mitral stenosis
Mitral valvar abnormality, Mitral regurgitation,	06.02.00 06.02.91	746.9 746.6		Q23.9 Q23.3		Mitral valve, Other Mitral regurgitation
Mitral regurgitation: congenital,	06.02.25 06.02.09	746.6		Q23.3 Q23.8		Mittal regulgitation Mittal valve, Other
Straddling mitral valve, Supravalvar mitral ring,	05.02.02	746.9 746.8		Q20.8		Mitral stenosis, Supravalvar mitral ring
Mitral valvar prolapse, True cleft of mitral leaflet (without atrioventricular septal defect),	06.02.35 06.02.36	746.9 746.9		I34.1 Q23.8		Mitral valve, Other Mitral valve, Other
Mitral valve stenosis, Mitral valvar stenosis: congenital,	06.02.93 06.02.07	746.5 746.5		Q23.2 Q23.2		Mitral stenosis, Valvar Mitral stenosis, Valvar
Mitral subvalvar steriosis. Congenia, Mitral subvalvar apparatus abnormality, Mitral subvalvar steriosis,	06.02.12 06.02.13	746.9 746.8		Q23.8 Q23.8		Mitral stenosis, subvalvar Mitral stenosis, subvalvar
Mitral subvalvar steriosis, Parachute malformation of mitral valve,	06.02.13	746.8		Q23.8		Mitral stenosis, Subvalvar Mitral stenosis, Subvalvar, Parachute
Atrioventricular septal defect (AVSD),	06.06.00	745.6		Q21.2		AVC (AVSD)
Atrioventricular septal defect (AVSD): isolated atrial component (primum ASD)(partial), Atrioventricular septal defect (AVSD): isolated ventricular component,	06.06.01 06.06.08	745.6 745.6		Q21.2 Q21.2		AVC (AVSD), Partial (incomplete) (PAVSD) (ASD, Primum) AVC (AVSD)
Atrioventricular septal defect (AVSD): atrial & ventricular components with common atrioventricular orifice (complete), Atrioventricular septal defect (AVSD): atrial & (restrictive) ventricular components + separate atrioventricular valve orifices ('intermediate'),	06.06.09 06.06.10	745.6 745.6		Q21.2 Q21.2		AVC (AVSD), Complete (CAVSD) AVC (AVSD), Intermediate (transitional)
Atrioventricular septal defect (AVSD) with ventricular imbalance, Atrioventricular septal defect (AVSD) atrioventricular valvar abnormality,	06.07.26 06.05.01	745.6 746.9		Q21.2 Q24.8		Single ventricle, Unbalanced AV Canal Cardiac, Other
Atrioventricular septal defect (AVSD) atrioventricular valvar regurgitation,	06.05.06	746.8	745.5	Q24.8	021.2	Cardiac, Other
Atrioventricular septal defect and Tetralogy of Fallot,	01.01.20	745.6	745.2	Q21.2	Q21.3	TOF, AVC (AVSD)

Abnormalities of ventricles and ventricular septum

Abnormalities of ventricles and ventricular septum				
Functionally univentricular heart,	01.01.22	746.9	Q20.9	Single ventricle
Ventricular imbalance: dominant left ventricle + hypoplastic right ventricle, Ventricular imbalance: dominant right ventricle + hypoplastic left ventricle,	07.08.41 07.08.42	746.8 746.8	Q20.8 Q20.8	Cardiac, Other Cardiac, Other
Veninicaan inibaan be. Ooninnan ngin veninibe + пуроразакові veninibe,		740.0		
Right ventricular abnormality,	07.01.00	746.9	Q24.9 Q24.8	Cardiac, Other
Right ventricular aneurysm, Right ventricular hypoplasia,	07.01.14 07.02.00	746.8 746.9	Q24.8 Q20.8	Aneurysm, Ventricular, Right (including pseudoaneurysm) Hypoplastic RV
Double chambered right ventricle,	07.03.01	746.8	Q24.8	DCRV
Right ventricular outflow tract obstruction,	07.05.01	746.8	Q24.8	Cardiac, Other
Left ventricular abnormality,	07.06.00	746.9	Q24.9	Cardiac, Other
Left ventricular hypoplasia, Left ventricular aneurysm.	07.07.00 07.06.13	746.9 746.8	Q20.8 Q24.8	Hypoplastic LV Aneurysm, Ventricular, Left (including pseudoaneurysm)
Hypoplastic left heart syndrome,	01.01.09	746.7	Q23.4	Hypoplastic left heart syndrome (HLHS)
Left ventricular outflow tract obstruction,	07.09.01 01.01.33	746.8	Q24.8 Q20.9	Cardiac, Other
Shone's syndrome: left heart obstruction at multiple sites, Intact ventricular septum,	07.21.00	746.9 nc	Q20.9 nc	Shone's syndrome
Ventricular septal defect (VSD),	07.10.00	745.4	Q21.0	VSD
Single ventricular septal defect (VSD), Multiple ventricular septal defect (VSD)s,	07.15.05 07.15.04	745.4 745.4	Q21.0 Q21.0	VSD VSD. Multiple
Perimembranous ventricular septal defect (VSD),	07.10.01	745.4	Q21.0	VSD, Type 2 (Perimembranous) (Paramembranous) (Conoventricular)
Ventricular septal defect (VSD) + malaligned outlet septum, hiet ventricular septal defect (VSD),	07.10.12 07.14.05	745.4 745.4	Q21.0 Q21.0	VSD VSD, Type 3 (Inlet), AV Canal type)
Muscular ventricular septal defect (VSD),	07.11.01	745.4	Q21.0	VSD, Type 4 (Muscular)
Subarterial ventricular septal defect (VSD),	07.12.00	745.4	Q21.0	VSD, Type 1 (Subarterial) (Supracristal) (Conal septal defect) (Infundibular)
Doubly committed subarterial ventricular septal defect (VSD), Communication between left ventricle + right atrium (Gerbode defect),	07.12.01 07.14.02	745.4 745.4	Q21.0 Q21.0	VSD, Type 1 (Subarterial) (Supracristal) (Conal septal defect) (Infundibular) VSD, Type: Gerbode type (LV-RA communication)
Spontaneous closure of ventricular septal defect (VSD),	07.16.01	V13.6	Z87.7	
Ventricular septal abnormality, Aneurysm of membranous septum,	07.20.00 07.20.01	745.9 745.9	Q21.9 Q21.9	Cardiac, Other Cardiac, Other
		1 40.0		
Abnormalities of ventriculo-arterial valves and great arteries				
Aortopulmonary window,	09.04.01	745.0	Q21.4	AP window (aortopulmonary window)
Pulmonary artery from ascending aorta (hemitruncus),	09.09.08	747.3	Q25.7	Pulmonary artery origin from ascending aorta (hemitruncus)
Truncal valvar abnormality, Truncal valvar regurgitation,	09.02.00 09.02.03	746.9 746.9	Q24.8 Q24.8	Cardiac, Other Truncal valve insufficiency
				•
Pulmonary stenosis, Subpulmonary stenosis,	09.05.92 07.05.30	746.0 746.8	Q22.3 Q24.3	Pulmonary stenosis Pulmonary stenosis, Subvalvar
Pulmonary valvar abnormality,	09.05.00	746.0	Q22.3	Pulmonary valve, Other
Pulmonary valvar stenosis, Pulmonary valvar stenosis; connenital	09.05.01 09.05.04	746.0 746.0	Q22.1 Q22.1	Pulmonary stenosis, Valvar
Pulmonary valvar stenosis: congenital, Pulmonary regurgitation,	09.05.04	746.0 746.0	Q22.1 Q22.2	Pulmonary insufficiency
Pulmonary regurgitation: congenital,	09.05.22 09.05.11	746.0	Q22.2 Q22.0	Pulmonary insufficiency
Pulmonary atresia; Pulmonary atresia: imperforate valve,	09.05.11 09.05.12	746.0 746.0	Q22.0 Q22.0	Pulmonary atresia Pulmonary atresia
Pulmonary atresia + intact ventricular septum,	01.01.07	746.0	Q22.0	Pulmonary atresia, IVS
Coronary fistulas from RV ('sinusoidal'), Right ventricle dependent coronary circulation,	09.45.11 09.46.06	746.9 746.9	Q24.8 Q24.8	Cardiac, Other Cardiac, Other
Pulmonary trunk (MPA) abnormality,	09.07.00 09.07.13	747.3 747.3	Q25.7 Q25.6	Cardiac, Other Pulmonary artery stenosis (Hypoplasia), Main (Trunk)
Supravalvar pulmonary trunk stenosis, Pulmonary trunk hypoplasia,	09.07.11	747.3	Q25.7	Pulmonary artery stenosis (hypoplasia), Main (Trunk)
Pulmonary arterial abnormality,	09.10.00	747.3	Q25.7	Cardiac, Other
Pulmonary arterial stenosis, Central pulmonary arterial stenosis: proximal to hilar bifurcation,	09.10.01 09.10.07	747.3 747.3	Q25.7 Q25.6	Pulmonary artery stenosis Pulmonary artery stenosis, Branch, Central (within the hilar bifurcation)
Peripheral pulmonary arterial stenoses: at-beyond hilar bifurcation,	09.10.06	747.3	Q25.6	Pulmonary artery stenosis, Branch, Peripheral (at or beyond the hilar bifurcation)
Right pulmonary arterial stenosis, Left pulmonary arterial stenosis,	09.10.25 09.10.26	747.3 747.3	Q25.6 Q25.6	Pulmonary artery stenosis Pulmonary artery stenosis
Pulmonary arterial hypoplasia,	09.10.11	747.3	Q25.7	Pulmonary artery stenosis (Hypoplasia), Main (Trunk)
Discontinuous (non-confluent) pulmonary arteries, Pulmonary arterial aneurysm,	09.10.10 09.10.44	747.3 747.3	Q25.7 Q25.7	Pulmonary artery, Discontinuous Aneurysm, Pulmonary artery
rumonary anema aneurysm,		747.3		Allouiyotti, i ulilohaiy attery
Aortic stenosis,	09.15.92 07.09.00	746.3	Q23.0	Aortic stenosis,
Subaortic stenosis, Subaortic stenosis due to fibromuscular shelf,	07.09.00	746.8 746.8	Q24.4 Q24.4	Aortic stenosis, Subvalvar Aortic stenosis, Subvalvar
Aortic valvar abnormality,	09.15.00	746.9	Q23.9	Aortic valve, Other
Aortic valvar stenosis, Aortic valvar stenosis: congenital,	09.15.13 09.15.01	746.3 746.3	Q23.0 Q23.0	Aortic stenosis, Valvar Aortic stenosis, Valvar
Eccentric opening of tricuspid aortic valve,	09.15.12	746.9	Q23.8	Aortic valve, Other
Aortic regurgitation, Aortic regurgitation: congenital,	09.15.91 09.15.07	746.4 746.4	Q23.1 Q23.1	Aortic insufficiency Aortic insufficiency
Bicuspid aortic valve,	09.15.22	746.4	Q23.1	Aortic valve, Other
Aorlic atresia,	09.15.03	746.7	Q23.0	Aortic valve atresia
Aortic valvar prolapse,	09.15.30	746.9	Q23.8	Aortic valve, Other
Aortic abnormality,	07.09.31	747.2	Q25.4	Cardiac, Other
Ascending aorta abnormality, Ascending aorta hypoplasia,	09.16.10 09.16.02	747.2 747.2	Q25.3 Q25.4	Cardiac, Other Cardiac, Other
Supravalvar aortic stenosis,	09.16.00	747.2	Q25.3	Aortic stenosis, Supravalvar
Ascending aorta dilation, Ascending aorta dilation associated with Marfan syndrome,	09.16.09 09.16.05	747.2 747.2	Q25.4 759.8 Q87.4† I79.0*	Cardiac, Other Cardiac, Other
Aortic sinus of Valsalva aneurysm,	09.18.01	747.2	Q25.4	Sinus of Valsalva aneurysm
Aorto-ventricular tunnel, Aorto: left ventricular tunnel,	09.17.01 09.17.02	747.2 747.2	Q25.4 Q25.4	LV to aorta tunnel LV to aorta tunnel
Auto. International temps,				
Aortic arch abnomality, Right aortic arch,	09.28.00 09.28.15	747.2 747.2	Q25.4 Q25.4	Cardiac, Other Cardiac, Other
Aorlic coarctation,	09.29.01	747.1	Q25.1	Coarctation of aorta
Aortic arch hypoplasia (tubular),	09.29.11	747.2	Q25.4	Aortic arch hypoplasia
Interrupted aortic arch, Aortic arch branch abnormality,	09.29.31 09.30.00	747.1 747.6	Q25.4 Q27.8	Interrupted aortic arch Cardiac, Other
Aberrant origin right subclavian artery,	09.30.02	747.6	Q27.8	Cardiac, Other
Aberrant origin left subclavian artery, Vascular ring,	09.30.04 09.31.00	747.6 747.2	Q27.8 Q25.4	Cardiac, Other Vascular ring
Double aortic arch,	09.28.09	747.2	Q25.4	Vascular ring
Pulmonary arterial sling, Descending aorta dilation,	09.09.06 09.28.16	747.3 747.2	Q25.7 Q25.4	Pulmonary artery sling Cardiac, Other
Descending-abdominal aorta hypoplasia (middle aortic syndrome),	09.29.16	747.2	Q25.4	Cardiac, Other
Abnormalities of coronary arteries, arterial duct and pericardium; arteriovenous fistulae				
Abnormantes of coronary arteries, arterial adot and period adult, arteriorenous instalae				
Coronary arterial abnormality,			Q24.5	Coronary artery anomaly
	09.46.00	746.8 746.8		
Anomabus origin of coronary artery from pulmonary artery, Coronary fistula,	09.41.01 09.45.01	746.8 746.8	Q24.5 Q24.5	Coronary artery anomaly, Anomalous pulmonary origin (includes ALCAPA) Coronary artery anomaly, Fistula
Anomabus origin of coronary artery from pulmonary artery, Coronary fistula, Coronary artery, anomabus aortic origin or course,	09.41.01 09.45.01 09.42.00	746.8 746.8 746.8	Q24.5 Q24.5 Q24.5	Coronary artery anomaly, Fistula (AAOCA)
Anomabus origin of coronary artery from pulmonary artery, Coronary fishtia, Coronary fishtia, Coronary artery, anomabus aortic origin or course, Aberrant course of coronary artery, arcoss right ventricular outflow tract, Intamunal proximal coronary arterial course, Alexandra proximal coronary arterial course,	09.41.01 09.45.01 09.42.00 09.43.18 09.43.05	746.8 746.8 746.8 746.8 746.8	Q24.5 Q24.5 Q24.5 Q24.5 Q24.5	Coronary artery anomaly, Fistula (AAOCA) (AAOCA) (AAOCA)
Anomabus origin of coronary artery from pulmonary artery, Coronary fistula, Coronary artery, anomabus aortic origin or course, Aberrant course of coronary artery, across right ventricular outflow tract, htmanural proximal coronary arterial course, Coronary arterial aneurysmis).	09.41.01 09.45.01 09.42.00 09.43.18 09.43.05 09.46.01	746.8 746.8 746.8 746.8 746.8 746.8	Q24.5 Q24.5 Q24.5 Q24.5 Q24.5 Q24.5	Coronary artery anomaly, Fistula (AAOCA) (AAOCA) (AAOCA) (AAOCA) Coronary artery anomaly, Aneurysm
Anomabus origin of coronary artery from pulmonary artery, Coronary fistula, Coronary artery, anomabus aortic origin or course, Aberrant course of coronary artery, across right ventricular outflow tract, Intramunal proximal coronary arterial course, Coronary arterial aneurysmi(s), Anterial duct (Ouctus arteriosus) abnormality, Patent arterial duct (PDA),	09.41.01 09.45.01 09.42.00 09.43.18 09.43.05 09.46.01 09.27.00 09.27.21	746.8 746.8 746.8 746.8 746.8 746.8 747.8 747.0	Q24.5 Q24.5 Q24.5 Q24.5 Q24.5 Q24.5 Q24.5 Q25.8 Q25.0	Coronary artery anomaly, Fistula (AAOCA) (AAOCA) (AAOCA) (AAOCA) (CORONARY artery anomaly, Aneurysm Cardiac, Other Patent ductus arteriosus
Anomabus origin of coronary artery from pulmonary artery, Coronary fistula, Coronary fistula, Coronary artery; anomabus aortic origin or course, Abernatir course of coronary arteries arross right ventricular outflow tract, Internutal proximal coronary arterial aneurysmi(s), Coronary arterial aneurysmi(s), Arterial duct (clubus arterious) abnormality, Patert arterial duct (PDA), Arteriovenous fistula (malformation),	09.41.01 09.45.01 09.42.00 09.43.18 09.43.05 09.46.01 09.27.00 09.27.21 09.19.01	746.8 746.8 746.8 746.8 746.8 746.8 747.8 747.0 747.6	024.5 024.5 024.5 024.5 024.5 024.5 025.8 025.0 027.3	Coronary artery anomaly, Fistula (AAOCA) (AAOCA) (AAOCA) (AAOCA) Coronary artery anomaly, Aneurysm Cardiac, Other Patent ductus arteriosus Peripheral vasculature, Other
Anomabus origin of coronary artery from pulmonary artery, Coronary fistula, Coronary artery, anomabus aortic origin or course, Aberrant course of coronary artery, across right ventricular outflow tract, Intramunal proximal coronary arterial course, Coronary arterial aneurysmi(s), Anterial duct (Ouctus arteriosus) abnormality, Patent arterial duct (PDA),	09.41.01 09.45.01 09.42.00 09.43.18 09.43.05 09.46.01 09.27.00 09.27.21 09.19.01 09.19.05 09.20.20	746.8 746.8 746.8 746.8 746.8 747.8 747.0 747.6 747.3	024.5 024.5 024.5 024.5 024.5 024.5 025.8 025.0 027.3 027.7	Coronary artery anomaly, Fistula (AAOCA) (AAOC
Anomabus origin of coronary artery from pulmonary artery, Coronary fistula, Coronary fistula, Coronary artery, anomabus aortic origin or course, Abernart course of coronary artery, arcoss rigit ventricular outflow tract, Intramular proximal coronary arterial course, Coronary arterial aneurysmi(s), Arterial duct (clubs arteriosus) abornmaitly, Patient arterial duct (PDA), Arteriovenous fistula (mallormation), Pulmonary arteriovenous fistula (mallormation), Distal systemic arterial abornmaitly, Pericardial abornmaitly,	09.41.01 09.45.01 09.43.00 09.43.18 09.43.05 09.46.01 09.27.00 09.27.21 09.19.01 09.19.05 09.20.20 10.01.00	746.8 746.8 746.8 746.8 746.8 747.8 747.0 747.6 747.3 747.9 746.8	024.5 024.5 024.5 024.5 024.5 024.5 024.5 025.8 025.0 027.3 025.7 027.8 024.8	Coronary artery anomaly, Fistulia (AAOCA) (AAOCA) (AAOCA) (AAOCA) Coronary artery anomaly, Aneurysm Cardiac, Other Patient ductus arteriosus Peripheral vasculature, Other Pulmonary AV fistula Peripheral disease, Other
Anomabus origin of coronary artery from pulmonary artery, Coronary fistula, Coronary fistula, Coronary fistula, Coronary artery a nonnabus aortic origin or course, Aberrard course of coronary artery alerosa right ventricular outflow tract, htramural proximal coronary arterial course, Coronary arterial areurysmi(s), Coronary arterial areurysmi(s), Arterial ducts (cuctus arteriosaly abrormality, Patient arterial duct (PDA), Arteriovenous fistula (malformation), Pulmonary arteriovenous fistula (malformation), Distal systemic arterial abrormality, Periorardial abrormality, Periorardial abrormality, Cardiac abrormality,	09.41.01 09.45.01 09.42.00 09.43.18 09.43.05 09.46.01 09.27.00 09.27.21 09.19.01 09.20.20 10.01.00 01.01.39	746.8 746.8 746.8 746.8 746.8 746.8 747.0 747.6 747.3 747.9 746.8	024.5 024.5 024.5 024.5 024.5 024.5 025.8 025.0 027.3 027.7	Coronary artery anomaly, Fistula (AAOCA) (AAOC
Anomabus origin of coronary artery from pulmonary artery, Coronary fistula, Coronary fistula, Coronary artery, anomabus aortic origin or course, Abernart course of coronary artery, arcoss rigit ventricular outflow tract, Intramular proximal coronary arterial course, Coronary arterial aneurysmi(s), Arterial duct (clubs arteriosus) abornmaitly, Patient arterial duct (PDA), Arteriovenous fistula (mallormation), Pulmonary arteriovenous fistula (mallormation), Distal systemic arterial abornmaitly, Pericardial abornmaitly,	09.41.01 09.45.01 09.43.00 09.43.18 09.43.05 09.46.01 09.27.00 09.27.21 09.19.01 09.19.05 09.20.20 10.01.00	746.8 746.8 746.8 746.8 746.8 747.8 747.0 747.6 747.3 747.9 746.8	024.5 024.5 024.5 024.5 024.5 024.5 025.8 025.0 027.3 025.7 027.8 024.8	Coronary artery anomaly, Fistula (AAOCA) (AAOC
Anomabus origin of coronary artery from pulmonary artery, Coronary fistula, Coronary fistula, Coronary fistula, Coronary fistula, Coronary artery: anomabus aortic origin or course, Aberrair course of coronary artery arcess right ventricular outflow tract, Internutal proximal coronary arterial course, Coronary arterial aneurysmis), Arterial duct (clubs arterious) abnormality, Patent arterial duct (PDA), Arteriovenous fistula (malformation), Pulmonary arteriovenous fistula (malformation), Distal systemic arterial abnormality, Periocardial abnormality, Cardiac abnormality, Vascular abnormality, Vascular abnormality, Aneurysm.	09.41.01 09.45.01 09.42.00 09.43.18 09.43.05 09.46.01 09.27.00 09.27.21 09.19.01 09.19.05 09.20.20 10.01.00	746.8 746.8 746.8 746.8 746.8 747.8 747.0 747.6 747.3 747.9 746.8 746.8	C24.5 C24.5 C24.5 C24.5 C24.5 C24.5 C25.8 C25.0 C27.3 C25.7 C27.8 C24.8 C24.8 E99	Coronary artery anomaly, Fistulia (AAOCA) (AAOCA) (AAOCA) Coronary artery anomaly, Aneurysm Cardiac, Other Patient ductus arteriosus Peripheral vasculature, Other Pulmonary AV fistula Peripheral vasculature, Other Pericardial disease, Other Cardiac, Other Pericardial disease, Other Cardiac, Other Peripheral vasculature, Other
Anomabus origin of coronary artery from pulmonary artery, Coronary fistula, Coronary fistula, Coronary artery a normabus aortic origin or course, Aberrant course of coronary arterial aneurysmis), Arterial ducit (clubta arteriosaly abnormality, Patern arterial ducit (PDA), Arterioworous fistula (malformation), Pulmonary arterioratoreous fistula (malformation), Distal systemic arterial abnormality, Periocardial abnormality, Periocardial abnormality, Vascular abnormality, Vascular abnormality, Aneurysm, Diagnostic comorbidities: hereditary, neonatal and non-cardiac codes	09.41.01 09.45.01 09.42.00 09.43.18 09.43.05 09.46.01 09.27.20 09.27.21 09.19.05 09.20.20 10.01.00 01.01.60	746.8 746.8 746.8 746.8 746.8 747.8 747.0 747.6 747.3 747.9 746.8 746.8 459.9 442.9	024.5 024.5 024.5 024.5 024.5 024.5 025.8 025.0 027.3 025.7 027.8 024.8 024.8 024.8	Coronary artery anomaly, Fistula (AAOCA) (AAOCA) (AAOCA) (AAOCA) (AAOCA) (Area and a anomaly, Aneurysm Cardiac, Other Patent ductus arteriosus Peripheral vasculature, Other Pulmonary AV fistula Peripheral vasculature, Other Pericardial disease, Other Cardiac, Other Peripheral vasculature, Other Peripheral vasculature, Other Aneurysm, Other
Anomabus origin of coronary artery from pulmonary artery, Coronary fistula, Coronary fistula, Coronary fistula, Coronary fistula, Coronary artery: anomabus aortic origin or course, Aberrair course of coronary artery arcess right ventricular outflow tract, Internural proximal coronary arterial course, Coronary arterial aneurysmis), Arterial duct (clubus arterious) abnormality, Patent arterial duct (PDA), Arteriovenous fistula (malformation), Pulmonary arteriovenous fistula (malformation), Distal systemic arterial abnormality, Periocardial abnormality, Cardiac abnormality, Vascular abnormality, Vascular abnormality, Aneurysm.	09.41.01 09.45.01 09.42.00 09.43.18 09.43.05 09.46.01 09.27.00 09.27.21 09.19.01 09.19.05 09.20.20 10.01.00	746.8 746.8 746.8 746.8 746.8 747.8 747.0 747.6 747.3 747.9 746.8 746.8	C24.5 C24.5 C24.5 C24.5 C24.5 C24.5 C25.8 C25.0 C27.3 C25.7 C27.8 C24.8 C24.8 E99	Coronary artery anomaly, Fistulia (AAOCA) (AAOCA) (AAOCA) Coronary artery anomaly, Aneurysm Cardiac, Other Patient ductus arteriosus Peripheral vasculature, Other Pulmonary AV fistula Peripheral vasculature, Other Pericardial disease, Other Cardiac, Other Pericardial disease, Other Cardiac, Other Peripheral vasculature, Other
Anomabus origin of coronary artery from pulmonary artery, Coronary fistula, Coronary fistula, Coronary fistula, Coronary fistula, Coronary artery: anomabus aortic origin or course, Aberrair course of coronary artery arcess right ventricular outflow tract, Intramunal proximal coronary arterial course, Coronary arterial aneurysmis). Arterial duct (clubus arterious) abromatility, Patent arterial duct (PDA), Arteriovenous fistula (mallomation), Pulmonary arteriovenous fistula (mallomation), Distal systemic arterial abromatility, Pericardial abromatility, Cardiac abromatility, Vascular abnormatility, Aneurysm. Diagnostic comorbidities: hereditary, neonatal and non-cardiac codes Multiple congenital malformations, Family history of congenital heart lesion,	09.41.01 09.45.01 09.42.00 09.43.18 09.43.05 09.46.01 09.27.00 09.27.21 09.19.01 09.19.05 09.20.20 10.01.00 01.01.60 01.01.61	746.8 746.8 746.8 746.8 746.8 746.8 747.0 747.6 747.3 747.9 746.8 459.9 442.9	C24.5 C24.5 C24.5 C24.5 C24.5 C24.5 C25.8 C25.0 C27.3 C25.7 C27.8 C24.8 G24.8 G99 I72.9 C89.7	Coronary artery anomaly, Fistula (AAOCA) (AAOCA) (AAOCA) (AAOCA) (AAOCA) (Area and a anomaly, Aneurysm Cardiac, Other Patent ductus arteriosus Peripheral vasculature, Other Pulmonary AV fistula Peripheral vasculature, Other Pericardial disease, Other Cardiac, Other Peripheral vasculature, Other Peripheral vasculature, Other Aneurysm, Other
Anomabus origin of coronary artery from pulmonary artery, Coronary fistula, Coronary fistula, Coronary fistula, Coronary artery a normabus aortic origin or course, Aberrant course of coronary artery alerose right ventricular outflow tract, Intramunal proximal coronary arterial course, Coronary arterial aneurysmi(s), Arterial duct (clustus arteriosaus) abnormality, Patient arterial duct (PDA), Arterioworous fistula (mallormation), Pulmonary arteriovenous fistula (mallormation), Distal systemic arterial abnormality, Pericardial abnormality, Vascular abnormality, Aneurysm, Diagnostic comorbidities: hereditary, neonatal and non-cardiac codes Multiple corgenital malformations, Family history of congenital heart lesion, Family history of congenital heart lesion, Family history of disorder with cardiac involvement,	99.41.01 99.45.01 99.42.00 99.43.18 99.43.05 99.46.01 99.27.20 99.19.05 99.20.20 10.01.00 01.01.39 01.01.61 14.06.01 10.23.01 10.23.03	746.8 746.8 746.8 746.8 746.8 746.8 747.0 747.6 747.3 747.9 746.8 746.8 746.8 746.9 747.9 746.8	C24.5 C24.5 C24.5 C24.5 C24.5 C24.5 C24.5 C25.0 C27.3 C25.7 C27.8 C24.8 C24.8 C24.8 C25.0 C27.9 C27.9 C28.7 C27.8 C24.8 C25.8	Coronary artery anomaly, Fistula (AAOCA) (AAOCA) (AAOCA) (AAOCA) (AAOCA) (Area and a anomaly, Aneurysm Cardiac, Other Patent ductus arteriosus Peripheral vasculature, Other Pulmonary AV fistula Peripheral vasculature, Other Pericardial disease, Other Cardiac, Other Peripheral vasculature, Other Peripheral vasculature, Other Aneurysm, Other
Anomabus origin of coronary artery from pulmonary artery, Coronary fistula, Coronary fistula, Coronary fistula, Coronary artery a nomabus andic origin or course, Aberrand course of coronary artery alerosa sight ventricular outflow tract, Intramural proximal coronary arterial course, Coronary arterial aneurysmi(s), Arterial duck (cuckus arteriosasu) abromality, Patert arterial duck (PDA), Arterioverous fistula (malformation), Pulmonary arterioverous fistula (malformation), Distal systemic arterial abromality, Pericardial abromality, Vascular abnormality, Aneurysm, Diagnostic comorbidities: hereditary, neonatal and non-cardiac codes Multiple congenital malformations, Family history of congenital heart lesion, Family history of coorder with cardiac involvement, Family history of sudden death, Malternal leratogen associated with congenital heart disease,	09.41.01 09.45.01 09.42.00 09.43.18 09.43.05 09.46.01 09.27.21 09.19.01 09.19.05 09.20.20 10.01.00 01.01.39 01.01.61 14.06.01 10.23.01 10.23.01 10.23.01 14.05.01	746.8 746.8 746.8 746.8 746.8 747.8 747.0 747.6 747.3 747.9 746.8 459.9 442.9 759.7 V19.5 V19.5 V19.5	C24.5 C24.5 C24.5 C24.5 C24.5 C24.5 C25.8 C25.8 C25.8 C27.3 C27.8 C24.8 C24.8 C25.8 C24.8 C25.8 C24.8 C25.8 C24.8 C26.8	Coronary artery anomaly, Fistula (AAOCA) (AAOCA) (AAOCA) (AAOCA) (AAOCA) (Area and a anomaly, Aneurysm Cardiac, Other Patent ductus arteriosus Peripheral vasculature, Other Pulmonary AV fistula Peripheral vasculature, Other Pericardial disease, Other Cardiac, Other Peripheral vasculature, Other Peripheral vasculature, Other Aneurysm, Other
Anomabus origin of coronary artery from pulmonary artery, Coronary fistula, Coronary fistula, Coronary fistula, Coronary fistula, Coronary artery: anomabus aortic origin or course, Aberrair course of coronary artery arcess right ventricular outflow tract, Intramural proximal coronary arterial course, Coronary arterial aneurysmis), Arterial duct, (clubba arterious) abnormality, Patert arterial duct (PDA), Arteriovenous fistula (malformation), Pulmonary arteriovenous fistula (malformation), Distal systemic arterial abnormality, Periocardial abnormality, Periocardial abnormality, Vascular abnormality, Vascular abnormality, Aneurysm, Diagnostic comorbidities: hereditary, neonatal and non-cardiac codes Multiple congenital malformations, Family history of disorder with cardiac involvement, Family history of disorder with cardiac involvement, Family history of disorder with cardiac involvement, Maternal teratogen associated with corgenital heart disease, Maternal teratogen or disease potertially associated with congenital heart disease, Maternal teratogen or disease potertially associated with congenital heart disease,	09.41.01 09.45.01 09.42.00 09.43.18 09.43.05 09.46.01 09.27.00 09.27.21 09.19.01 09.19.05 09.20.20 10.01.00 01.01.60 01.01.61	746.8 746.8 746.8 746.8 746.8 747.8 747.0 747.6 747.3 747.9 746.8 459.9 442.9 759.7 V19.5 V19.5 V19.5 V19.5 V19.5	024.5 024.5 024.5 024.5 024.5 024.5 025.8 025.0 027.3 025.7 027.8 024.8 099.7 089.7 282.7 282.7 284.8 086.8	Coronary artery anomaly, Fistula (AAOCA) (AAOCA) (AAOCA) (AAOCA) (AAOCA) (Area and a anomaly, Aneurysm Cardiac, Other Patent ductus arteriosus Peripheral vasculature, Other Pulmonary AV fistula Peripheral vasculature, Other Pericardial disease, Other Cardiac, Other Peripheral vasculature, Other Peripheral vasculature, Other Aneurysm, Other
Anomabus origin of coronary artery from pulmonary artery, Coronary fistula, Coronary fistula, Coronary fistula, Coronary artery a nomabus andic origin or course, Aberrand course of coronary artery alerosa sight ventricular outflow tract, Intramural proximal coronary arterial course, Coronary arterial aneurysmi(s), Arterial duck (cuckus arteriosasu) abromality, Patert arterial duck (PDA), Arterioverous fistula (malformation), Pulmonary arterioverous fistula (malformation), Distal systemic arterial abromality, Pericardial abromality, Vascular abnormality, Aneurysm, Diagnostic comorbidities: hereditary, neonatal and non-cardiac codes Multiple congenital malformations, Family history of congenital heart lesion, Family history of coorder with cardiac involvement, Family history of sudden death, Malternal leratogen associated with congenital heart disease,	09.41.01 09.45.01 09.42.00 09.43.18 09.43.05 09.46.01 09.27.21 09.19.01 09.19.05 09.20.20 10.01.00 01.01.39 01.01.61 14.06.01 10.23.01 10.23.01 10.23.01 14.05.01	746.8 746.8 746.8 746.8 746.8 747.8 747.0 747.6 747.3 747.9 746.8 459.9 442.9 759.7 V19.5 V19.5 V19.5	C24.5 C24.5 C24.5 C24.5 C24.5 C24.5 C25.8 C25.8 C25.8 C27.3 C27.8 C24.8 C24.8 C25.8 C24.8 C25.8 C24.8 C25.8 C24.8 C26.8	Coronary artery anomaly, Fistula (AAOCA) (AAOCA) (AAOCA) (AAOCA) (AAOCA) (Area and a anomaly, Aneurysm Cardiac, Other Patent ductus arteriosus Peripheral vasculature, Other Pulmonary AV fistula Peripheral vasculature, Other Pericardial disease, Other Cardiac, Other Peripheral vasculature, Other Peripheral vasculature, Other Aneurysm, Other
Anomabus origin of coronary artery from pulmonary artery, Coronary fistula, Coronary fistula, Coronary artery anomabus andic origin or course, Aberrand course of coronary antery across right ventricular outflow tract, International proximal acromary arterial course, Coronary arterial aneurysmiol, Arterial duct (ductus arteriosus) abromatily, Patert arterial duct (PDA), Arterioreorous fistula (malformation), Pulmonary arterioreorous fistula (malformation), Distal systemic arterial abromatily, Pericardial abrommatily, Vascular abnormatily, Aneurysm, Diagnostic comorbidities: hereditarry, neonatal and non-cardiac codes Multiple congenital malformations, Family history of congenital heart tesion, Family history of audien death, Maternal tensipen associated with congenital heart disease, Maternal tensipen or cleases potentialy associated with congenital heart disease, Maternal tensipen or cleases potentialy associated with congenital heart disease, Maternal tensipen or cleases potentialy associated with congenital heart disease, Maternal tensipen or cleases potentialy associated with congenital heart disease, Maternal tensipen or cleases potentialy associated with congenital heart disease, Maternal tensifier, buse enthreatorsus (SLE),	09.41.01 09.45.01 09.42.00 09.43.18 09.43.05 09.46.01 09.27.00 09.27.21 09.19.01 09.19.05 09.20.20 10.01.00 01.01.39 01.01.60 11.02.3.01 10.23.01 10.23.01 10.23.01 10.23.01 10.23.01 10.23.01 10.23.01 10.23.01 10.23.01 10.23.01 10.23.01 10.23.01 10.23.01	746.8 746.8 746.8 746.8 746.8 747.8 747.8 747.9 747.8 459.9 442.9 759.7 V19.5 V19.5 V19.5 V19.6 760.7 760.7	C24.5 C24.5 C24.5 C24.5 C24.5 C24.5 C25.8 C25.0 C27.3 C25.7 C27.8 C24.8 C24.8 C24.8 C25.0 C27.3 C26.7 C27.8 C24.8 C24.8 C26.8	Coronary artery anomaly, Fistula (AAOCA) (AAOCA) (AAOCA) (AAOCA) (AAOCA) (Area and a anomaly, Aneurysm Cardiac, Other Patent ductus arteriosus Peripheral vasculature, Other Pulmonary AV fistula Peripheral vasculature, Other Pericardial disease, Other Cardiac, Other Peripheral vasculature, Other Peripheral vasculature, Other Aneurysm, Other

Neonatal disorders or abnormalities

Neonatal disorders or abnormalities						
Neonatal disorder,	10.15.00	779.9		P96.9		Miscellaneous, Other
Infant of diabetic mother, Heart muscle disease in Infant of diabetic mother,	10.22.03 10.07.71	775.0 775.0†	425.8*	P70.1 P70.1†	43.8 *	Cardiac, Other
Premature birth, Premature birth 32-35 weeks,	10.22.02 10.22.05	765.1 765.1		P07.3 P07.3		Miscellaneous, Other Miscellaneous, Other
Premature birth less than 32 weeks,	10.22.06	765.1		P07.3		Miscellaneous, Other
Meconium aspiration, Necrotising enterocolitis,	10.15.12 10.15.05	770.1 777.5		P24.0 P77		Meconium aspiration Miscellaneous, Other
Transient myocardial ischaemia, Persistent pulmonary hypertension of the newborn (PFC),	10.15.10 10.15.01	779.8 747.9		P29.4 P29.3		Cardiac, Other Persistent fetal circulation
Chromosomal anomalies and other syndromes						
Chromosomal anomaly, Trisomy 21: Down's syndrome,	14.01.01 14.01.02	758.9 758.0		Q99.9 Q90.9		Other chromosomal/syndromic abnormality Down Syndrome
45XO: Turner's syndrome,	14.01.05	758.6		Q96		Turner Syndrome
22q11 microdeletion, 22q11 microdeletion with full DiGeorge sequence (including immune dysfunction),	14.01.21 14.02.06	758.3 279.1		Q93.8 D82.1		22q11 deletion DiGeorge
Trisomy 18: Edwards' syndrome, Trisomy 13: Patau's syndrome.	14.01.03 14.01.04	758.2 758.1		Q91.3 Q91.7		Other chromosomal/syndromic abnormality Other chromosomal/syndromic abnormality
Hereditary disorder associated with heart disease,	10.23.04	759.7		Q87.8		Other chromosomal/syndromic abnormality
Pompe's disease: glycogen storage disease type lla, Friedreich's ataxia,	14.02.21 14.02.10	271.0 334.0		E74.0 G11.1		Other chromosomal/syndromic abnormality Other chromosomal/syndromic abnormality
Muscular dystrophy, Ducherne's muscular dystrophy,	14.02.58 14.02.34	359.1 359.1		G71.0 G71.0		Other chromosomal/syndromic abnormality Other chromosomal/syndromic abnormality
Marfan syndrome,	14.02.17	759.8		Q87.4		Marfan syndrome
Noonan syndrome, Tuberous sclerosis,	14.02.19 14.02.28	759.8 759.5		Q87.1 Q85.1		Other chromosomal/syndromic abnormality Other chromosomal/syndromic abnormality
Williams syndrome (infantile hypercalcaemia), Alagille syndrome: arteriohepatic dysplasia,	14.02.30 14.02.66	275.4 751.6	747.2	Q93.8 Q44.7		Williams Beuren syndrome Alagille syndrome (intrahepatic biliary duct agenesis)
Fetal rubella syndrome,	14.02.32	771.0	141.2	P35.0		Rubella
Syndrome-association with cardiac involvement, Dyslipidaemia,	14.02.00 10.19.01	759.9 272.4		Q87.8 E78.9		Other chromosomal/syndromic abnormality Miscellaneous, Other
Non-cardiac anomalies and diseases associated with heart anomalies						
Hereditary-non-cardiac abnormality not apparent, Non-cardiac abnormality associated with heart disease,	10.23.00 14.03.00	nc 759.9		nc Q89.9		None Other preoperative noncardiac abnormality
Spleen absent (asplenia), Multiple spleens (polysplenia),	03.07.03 03.07.04	759.0 759.0		Q20.6 Q20.6		Asplenia Polysplenia
Cystic fibrosis,	14.03.06	277.0		E84.9		Other preoperative noncardiac abnormality
Tracheo-oesophageal fistula, Congenital diaphragmatic hernia,	14.03.08 14.03.07	750.3 756.6		Q39.2 Q79.0		Other preoperative noncardiac abnormality Other preoperative noncardiac abnormality
Omphalocoele, Duodenal sternosis/atresia.	14.03.10 14.03.11	553.1 751.1		Q79.2 Q41.0		Other preoperative noncardiac abnormality Other preoperative noncardiac abnormality
Gastro-oesophageal reflux disease (GORD),	14.03.09	530.1		Q40.8		Other preoperative noncardiac abnormality
Intestines malrotated, Renal failure,	03.06.03 15.82.10	751.4 586		Q43.3 N19		Other preoperative noncardiac abnormality Other preoperative noncardiac abnormality
Renal abnormality,	14.03.23 14.03.91	753.9 742.9		Q64.9 Q04.9		Other preoperative noncardiac abnormality Other preoperative noncardiac abnormality
Gerebral anomaly, Anoxic-ischaemic encephalopathy,	14.03.72	348.1		G93.1		Other preoperative noncardiac abnormality
Microcephaly, Psychomotor developmental delay,	14.03.33 14.03.05	742.1 315.5		Q02 F79		Other preoperative noncardiac abnormality Other preoperative noncardiac abnormality
Transient ischaemic attack: less than 24 hours (TIA),	14.03.44	435		G45.9		Other preoperative noncardiac abnormality
Reversible ischaemic neurologic deficit: 24-72 hours (RIND), Cerebrovascular accident (stroke),	14.03.97 14.03.42	435 436		G45.8 I64		Other preoperative noncardiac abnormality Other preoperative noncardiac abnormality
Migraine, Diver's decompression sickness,	14.04.46 14.04.47	346.9 993.3		G43.9 T70.3		Other preoperative noncardiac abnormality Other preoperative noncardiac abnormality
Choanal atresia,	14.03.47	748		Q30.0		Other preoperative noncardiac abnormality
Cleft lip or palate, Kyphoscoliosis,	14.04.12 14.04.09	749.2 756.1		Q37 Q67.5		Other preoperative noncardiac abnormality Other preoperative noncardiac abnormality
Anterior chest wall (pectus) deformity, Pectus carinatum,	14.04.14 14.04.04	754.8 754.8		Q67.8 Q67.7		Pectus Pectus
Pectus excavatum,	14.04.05	754.8		Q67.6		Pectus
Congenital coagulation disorder, Connective tissue disease,	14.03.28 14.03.92	286.9 710.9		D68.8 M35.9		Other preoperative noncardiac abnormality Other preoperative noncardiac abnormality
Non-cardiothoracic-vascular abnormality,	14.03.04	759.8		Q89.8		Miscellaneous, Other
	14 03 29	759.8		Q89.8		Thoracic and-or mediastinal Other
Thoracic-mediastinal abnormality,	14.03.29	759.8		Q89.8		Thoracic and-or mediastinal, Other
	14.03.29	759.8		Q89.8		Thoracic and-or mediastinal, Other
Thoracic-mediastinal abnormality,	14.03.29	759.8		Q89.8		Thoracic and-or mediastinal, Other
Thoracic-mediastinal abnormality, Diagnostic codes for acquired and postprocedural abnormalities or disorders Rheumatic and infective heart disease	14.03.29			Q89.8		Thoracic and-or mediastinal, Other Miscellaneous, Other
Thoracic-mediastinal abnormality, Diagnostic codes for acquired and postprocedural abnormalities or disorders Rheumatic and infective heart disease Acute rheumatic lever, Rheumatic lever with cardiac involvement,	10.05.01 10.05.21	390 391		100 101		Miscellaneous, Other Pheumato heart disease
Thoracic-mediastinal abnormality, Diagnostic codes for acquired and postprocedural abnormalities or disorders Rheumatic and infective heart disease Acute rheumatic fever,	10.05.01 10.05.21 10.05.30 10.05.31	390		100 101 109.1 105.9		Miscellaneous, Other Rheumatic heart disease Rheumatic heart disease Mitral valve, Other
Thoracic-mediastinal abnormality. Diagnostic codes for acquired and postprocedural abnormalities or disorders Rheumatic and infective heart disease Acute rheumatic fever, Rheumatic fever with cardiac involvement, Rheumatic valvar disease,	10.05.01 10.05.21 10.05.30	390 391 397.9		100 101 109.1		Miscellaneous, Other Rheumatic heart disease Rheumatic heart disease
Thoracic-mediastinal abnormality, Diagnostic codes for acquired and postprocedural abnormalities or disorders Rheumatic and infective heart disease Acute rheumatic lever, Rheumatic lever with cardiac involvement, Rheumatic valvar disease, Pheumatic ordic valvar disease, Pheumatic aortic valvar disease, Endocardiis, Intective endocardiis,	10.05.01 10.05.21 10.05.30 10.05.33 10.05.33 10.06.00 10.06.01	390 391 397.9 394.9 395.9 421.0 421.0		100 101 109.1 105.9 106.9 133.0 133.0		Miscellaneous, Other Pheumatic heart disease Rheumatic heart disease Mitral valve, Other Andric valve, Other Endocarditis Endocarditis
Thoracic-mediastinal abnormality, Diagnostic codes for acquired and postprocedural abnormalities or disorders Rheumatic and infective heart disease Acute rheumatic lever, Rheumatic lever with cardiac involvement, Rheumatic valvar disease, Rheumatic milarl valvar disease, Rheumatic ardic ordic valvar disease, Endocardiis, Heditive endocardiis, Bacterial endocardiis, Postprocedural endocardiis, Postprocedural endocardiis, Postprocedural endocardiis,	10.05.01 10.05.21 10.05.30 10.05.31 10.05.33 10.06.01 10.06.41 10.06.64	390 391 397.9 394.9 395.9 421.0 421.0 421.0	E878.8	100 101 109.1 105.9 106.9 133.0 133.0 133.0	Y83.8	Miscellaneous, Other Pheumatic heart disease Pheumatic heart disease Mitral valve, Other Aontic valve, Other Endocarditis Endocarditis Endocarditis Postoperative endocarditis
Thoracic-mediastinal abnormality. Diagnostic codes for acquired and postprocedural abnormalities or disorders Rheumatic and infective heart disease Acute rheumatic lever, Rheumatic lever with cardiac involvement, Rheumatic valvar disease, Pheumatic mitral valvar disease, Pheumatic order valvar disease, Endocardiis, Infective endocardiis, Bacterial endocardiis, Bacterial endocardiis, Postprocedural endocardiis, Peart absesses,	10.05.01 10.05.21 10.05.30 10.05.31 10.05.33 10.06.00 10.06.01 10.06.41	390 391 397.9 394.9 395.9 421.0 421.0 421.0 421.0 429.8	E878.8	100 101 109.1 105.9 106.9 133.0 133.0	Y83.8	Miscellaneous, Other Rheumatic heart disease Rheumatic heart disease Mitral valve, Other Andric valve, Other Endocarditis Endocarditis Endocarditis
Thoracic-mediastinal abnormality. Diagnostic codes for acquired and postprocedural abnormalities or disorders Rheumatic and infective heart disease Acute rheumatic lever, Rheumatic lever with cardiac incolvement, Rheumatic lever with cardiac incolvement, Rheumatic mover disease, Pheumatic mitral valvar disease, Pheumatic order valvar disease, Rheumatic aorder valvar disease, Endocarditis, Infective endocarditis, Bacterial endocarditis, Postprocedural endocarditis, Postprocedural endocarditis, Heart absesses, Infectious myocarditis, Virial myocarditis, Virial myocarditis, Virial myocarditis,	10.05.01 10.05.21 10.05.30 10.05.31 10.05.33 10.06.00 10.06.01 10.06.41 10.06.64 10.06.20 10.07.01	390 391 397.9 394.9 395.9 421.0 421.0 421.0 429.8 422.9	79.9	100 101 105.9 106.9 133.0 133.0 133.0 131.0 140.0	B97	Miscellaneous, Other Pheumatic heart disease Pheumatic heart disease Mitral valve, Other Andric valve, Other Endocarditis Endocarditis Endocarditis Postoperative endocarditis Cardiac, Other Cardiac, Other Cardiac, Other
Thoracic-mediastinal abnormality. Diagnostic codes for acquired and postprocedural abnormalities or disorders Rheumatic and infective heart disease Acute rheumatic lever with cardiac involvement, Rheumatic lever with cardiac involvement, Rheumatic valvar disease, Pheumatic valvar disease, Pheumatic ordic valvar disease, Endocardilis, Infective endocardilis, Postprocedural endocardilis, Postprocedural endocardilis, Heart abscess, Herecius repocardilis, Herecius repocardilis,	10.05.01 10.05.21 10.05.30 10.05.31 10.05.33 10.06.00 10.06.01 10.06.41 10.06.20 10.07.03 10.07.03 10.07.03	390 391 397.9 394.9 395.9 421.0 421.0 421.0 422.9		100 101 109.1 105.9 106.9 133.0 133.0 133.0 151.8 140.0 140.0 140.0	B97 I41.2*	Miscellaneous, Other Pheumatic heart disease Pheumatic heart disease Mitral valve, Other Andric valve, Other Endocarditis Endocarditis Endocarditis Endocarditis Cardiac, Other Cardiac, Other Cardiac, Other Cardiac, Other Cardiac, Other Pericarditis
Thoracic-mediastinal abnormality. Diagnostic codes for acquired and postprocedural abnormalities or disorders Rheumatic and infective heart disease Acute rheumatic fever (Theumatic fever with cardiac involvement, Prieumatic else vi with cardiac involvement, Prieumatic valvar disease, Prieumatic valvar disease, Prieumatic valvar disease, Prieumatic acritic valvar disease, Endocarditis, Infective endocarditis, Bacterial endocarditis, Postprocedural endocarditis, Heart abscess, Infectious myocarditis, Viral myocarditis, Topanosomal myocarditis (Chagas' disease), Infectious pericarditis, Viral pricarditis, Viral pricarditis, Viral procarditis, Viral pricarditis,	10.05.01 10.05.21 10.05.30 10.05.33 10.06.33 10.06.00 10.06.01 10.06.41 10.06.64 10.07.03 10.07.03 10.07.08 10.08.01	390 391 397.9 394.9 395.9 421.0 421.0 421.0 429.8 422.9 422.9 86.0†	79.9	100 101 109.1 105.9 106.9 133.0 133.0 133.0 140.0 140.0 140.0 140.0 130.1	B97 41.2*	Miscellaneous, Other Rhoumalic heart disease Rhoumalic heart disease Rhoumalic heart disease Mitral valve, Other Aordic valve, Other Endocarditis Endocarditis Endocarditis Endocarditis Cardiac, Other Cardiac, Other Cardiac, Other Cardiac, Other Perficarditis Pericarditis Pericarditis
Thoracic-mediastinal abnormality. Diagnostic codes for acquired and postprocedural abnormalities or disorders Rheumatic and infective heart disease Acute rheumatic lever, Rheumatic lever with cardiac involvement, Rheumatic valvar disease, Rheumatic ovider valvar disease, Rheumatic andre valvar disease, Endocarditis, Infective endocarditis, Bacterial endocarditis, Postprocedural endocarditis, Postprocedural endocarditis, Viral myocarditis, Viral myocarditis (Chagas' disease), Infectious pericarditis, Viral procarditis, Viral procarditis, Viral procarditis, Viral procarditis, Viral procarditis, Bacterial pericarditis, Bacterial pericarditis, Bacterial pericarditis,	10.05.01 10.05.21 10.05.30 10.05.31 10.05.33 10.06.00 10.06.01 10.06.41 10.06.20 10.07.03 10.07.03 10.07.03	390 391, 397,9 394,9 395,9 421,0 421,0 421,0 429,8 422,9 422,9 420,9	79.9 425.6* 79.9	100 101 109.1 105.9 106.9 133.0 133.0 133.0 151.8 140.0 140.0 140.0	B97 I41.2*	Miscellaneous, Other Pheumatic heart disease Pheumatic heart disease Mitral valve, Other Andric valve, Other Endocarditis Endocarditis Endocarditis Endocarditis Cardiac, Other Cardiac, Other Cardiac, Other Cardiac, Other Cardiac, Other Pericarditis
Thoracic-mediastinal abnormality. Diagnostic codes for acquired and postprocedural abnormalities or disorders Rheumatic and infective heart disease Acute rheumatic fever, Rheumatic fever, disease, Rheumatic valvar disease, Pheumatic intra valvar disease, Pheumatic mitra valvar disease, Pheumatic andre valvar disease, Endocarditis, Infective endocarditis, Bacterial endocarditis, Postprocedural endocarditis, Postprocedural endocarditis, Viral myocarditis, Viral myocarditis (Chagas' disease), Infectious pericarditis, Viral pericarditis, Viral pericarditis, Viral pericarditis, Bacterial pericarditis, Great vein and atrial acquired abnormalities	10.05.01 10.05.21 10.05.30 10.05.31 10.05.33 10.06.00 10.06.01 10.06.64 10.06.20 10.07.03 10.07.03 10.07.03 10.08.04	390 391 394,9 395,9 421,0 421,0 421,0 422,9 422,9 422,9 420,9 420,9	79.9 425.6* 79.9	100 101 109.1 105.9 106.9 133.0 133.0 133.0 133.0 140.0 140.0 140.0 140.0 130.1 130.1 130.1	B97 41.2*	Miscellaneous, Other Pheumatic heart disease Pheumatic heart disease Mitral valve, Other Andric valve, Other Endocarditis Endocarditis Endocarditis Endocarditis Cardiac, Other Cardiac, Other Cardiac, Other Cardiac, Other Cardiac, Other Pencarditis Pencarditis Pencarditis Pencarditis Pencarditis Pencarditis
Thoracic-mediastinal abnormality. Diagnostic codes for acquired and postprocedural abnormalities or disorders Rheumatic and infective heart disease Acute rheumatic lever, Rheumatic lever with cardiac involvement, Rheumatic valvar disease, Rheumatic ovider valvar disease, Rheumatic andre valvar disease, Endocarditis, Infective endocarditis, Bacterial endocarditis, Postprocedural endocarditis, Postprocedural endocarditis, Viral myocarditis, Viral myocarditis (Chagas' disease), Infectious pericarditis, Viral procarditis, Viral procarditis, Viral procarditis, Viral procarditis, Viral procarditis, Bacterial pericarditis, Bacterial pericarditis, Bacterial pericarditis,	10.05.01 10.05.21 10.05.30 10.05.33 10.06.33 10.06.00 10.06.01 10.06.41 10.06.64 10.07.03 10.07.03 10.07.08 10.08.01	390 391, 397,9 394,9 395,9 421,0 421,0 421,0 429,8 422,9 422,9 420,9	79.9 425.6* 79.9	100 101 109.1 105.9 106.9 133.0 133.0 133.0 140.0 140.0 140.0 140.0 130.1	B97 41.2*	Miscellaneous, Other Rhoumalic heart disease Rhoumalic heart disease Rhoumalic heart disease Mitral valve, Other Aordic valve, Other Endocarditis Endocarditis Endocarditis Endocarditis Cardiac, Other Cardiac, Other Cardiac, Other Cardiac, Other Perficarditis Pericarditis Pericarditis
Thoracic-mediastinal abnormality. Diagnostic codes for acquired and postprocedural abnormalities or disorders Rheumatic and infective heart disease Acute rheumatic fever, with cardiac involvement, Pheumatic lever with cardiac involvement, Pheumatic valvar disease, Pheumatic valvar disease, Pheumatic valvar disease, Pheumatic ordic valvar disease, Endocarditis, Infective endocarditis, Bacterial endocarditis, Postprocedural endocarditis, Petertos repocarditis, Viral myocarditis, Viral myocarditis, Viral procarditis, Viral procarditis, Viral procarditis, Great vein and atrial acquired abnormalities Systemic vein abnormality: acquired, Systemic vein abnormality: acquired, Systemic vein abnormality: acquired, Systemic vein banormality: acquired,	10.05.01 10.05.21 10.05.20 10.05.33 10.05.33 10.06.60 10.06.61 10.06.41 10.06.20 10.07.01 10.07.03 10.07.08 10.08.03 10.08.03 10.08.03 10.08.03 10.08.03	390 391 397.9 394.9 395.9 421.0 421.0 421.0 421.0 422.9 422.9 420.9 420.9 420.9 459.9 459.9	79.9 425.6* 79.9 41.9	100 101 109.1 105.9 106.9 133.0 133.0 133.0 151.8 140.0 140.0 157.2† 130.1 130.1 130.1 130.1 130.1 130.1	B97 k1.2* B97 B96.8	Miscellaneous, Other Pheumatic heart disease Pheumatic heart disease Mitral valve, Other Aortic valve, Other Endocarditis Endocarditis Endocarditis Endocarditis Cardiac, Other Cardiac, Other Cardiac, Other Cardiac, Other Pericarditis Pericarditis Pericarditis Pericarditis Cardiac, Other
Thoracic-mediastinal abnormality. Diagnostic codes for acquired and postprocedural abnormalities or disorders Rheumatic and infective heart disease Acute rheumatic fever (Pheumatic fever with cardiac involvement, Pheumatic loser with cardiac involvement, Pheumatic valvar disease, Pheumatic valvar disease, Pheumatic valvar disease, Pheumatic valvar disease, Pheumatic acritic valvar disease, Pheumatic ordic valvar disease, Pheumatic ordicalis, Postprocedurilis (Chagas' disease), Infectious pericarditis, Bacterial pericarditis, Bacterial pericarditis, Great vein ad atrial acquired abnormalities Systemic vein abnormality: acquired, Systemic vein obstruction, Superior caval vein (INC) abnormality: acquired, Postprocedural superior caval vein (INC) complication, Inferior caval vein (INC) abnormality - acquired,	10.05.01 10.05.21 10.05.30 10.05.31 10.05.33 10.06.00 10.06.64 10.06.20 10.07.01 10.07.03 10.07.03 10.07.06 10.08.03 10.08.03 10.08.03 10.08.03 10.30.00 10.30.00 10.30.00 10.30.00 10.30.00 10.30.00 10.30.00 10.30.00	390 391 397.9 394.9 395.9 421.0 421.0 421.0 421.0 422.9 422.9 422.9 420.9 420.9 459.9 459.9 459.9	79.9 425.6* 79.9 41.9	100 101 109.1 105.9 106.9 133.0 133.0 133.0 133.0 151.8 140.0 140.0 140.0 140.0 140.0 140.1 130.	B97 H1.2* B97 B96.8	Miscellaneous, Other Rheumatic heart disease Rheumatic heart disease Mitral valve, Other Andric valve, Other Endocarditis Endocarditis Endocarditis Endocarditis Cardiac, Other Cardiac, Other Cardiac, Other Cardiac, Other Pericarditis Pericarditis Pericarditis Pericarditis Cardiac, Other
Thoracic-mediastinal abnormality. Diagnostic codes for acquired and postprocedural abnormalities or disorders Rheumatic and infective heart disease Acute rheumatic lever, Rheumatic lever with cardiac involvement, Rheumatic valvar disease, Pheumatic mitral valvar disease, Pheumatic mitral valvar disease, Pheumatic mitral valvar disease, Pheumatic andia evalvar disease, Pheumatic andia evalvar disease, Pheumatic andia evalvar disease, Pheumatic mitral valvar disease, Prostprocedural endocarditis, Postprocedural encidarditis, Viral procarditis, Viral pericarditis, Bacterial pericarditis, Great vein and atrial acquired abnormalities Systemic vein abnormality: acquired, Systemic vein obstruction, Superior caval vein (SVC) abnormality: acquired, Postprocedural superior caval vein (SVC) complication,	10.05.01 10.05.21 10.05.30 10.05.31 10.05.33 10.06.00 10.06.01 10.06.41 10.06.20 10.07.03 10.07.03 10.07.03 10.08.03 10.08.04	390 391 397.9 394.9 395.9 421.0 421.0 421.0 421.0 422.9 422.9 422.9 420.9 420.9 459.9 459.9	79.9 425.6* 79.9 41.9	100 101 105.9 133.0 133.	B97 k1.2* B97 B96.8	Miscellaneous, Other Rheumatic heart disease Rheumatic heart disease Mitral valve, Other Andric valve, Other Endocarditis Endocarditis Endocarditis Endocarditis Cardiac, Other Cardiac, Other Cardiac, Other Cardiac, Other Pencarditis Pencarditis Pencarditis Pencarditis Pencarditis Cardiac, Other
Thoracic-mediastinal abnormality. Diagnostic codes for acquired and postprocedural abnormalities or disorders Rheumatic and infective heart disease Acute rheumatic fever, Rheumatic fever with cardiac involvement, Rheumatic roward disease, Pheumatic mitral vahar disease, Pheumatic mitral vahar disease, Pheumatic mitral vahar disease, Pheumatic mitral vahar disease, Pheumatic aortic vahar disease, Redocardiis, Bacterial endocardiis, Bacterial endocardiis, Postprocedural endocardiis, Postprocedural endocardiis, Viral myocardiis, Viral procardiis, Viral procardiis, Viral pericardiis, Bacterial pericardiis, Great vein and atrial acquired abnormalities Systemic vein abnormality acquired, Systemic vein obstruction, Superior caval vein (WC) abnormality: acquired, Postprocedural superior caval vein (WC) complication, Inferior caval vein (WC) abnormality - acquired, Postprocedural interior caval vein (WC) complication, Pulmonary venous abnormality: acquired, Postprocedural interior caval vein (WC) complication,	10.05.01 10.05.21 10.05.30 10.05.31 10.05.33 10.06.00 10.06.01 10.06.41 10.06.64 10.07.20 10.07.20 10.07.08 10.08.00 10.08.00 10.30.00 10.30.00 10.30.00 10.31.01 15.04.01 15.04.01	390 391 397.9 395.9 421.0 421.0 421.0 421.0 422.9 86.0† 420.9 420.9 420.9 459.9 459.9 459.9	79.9 425.6* 79.9 41.9 E878.8	000 01 05.9 06.9 06.9 06.9 06.9 06.9 06.9 06.9 06	B97 l41.2° B97 B96.8 Y83.8	Miscellaneous, Other Pheumatic heart disease Pheumatic heart disease Mitral valve, Other Andric valve, Other Endocarditis Endocarditis Endocarditis Endocarditis Cardiac, Other
Thoracic-mediastinal abnormality. Diagnostic codes for acquired and postprocedural abnormalities or disorders Rheumatic and infective heart disease Acute rheumatic fever, Rheumatic fever, Rheumatic fever with cardiac involvement, Rheumatic mitral valvar disease, Pheumatic mitral valvar disease, Pheumatic mitral valvar disease, Pheumatic aordic valvar disease, Endocarditis, Bacterial endocarditis, Bacterial endocarditis, Postprocedural endocarditis, Postprocedural endocarditis, Viral myocarditis, Viral procarditis, Viral procarditis, Viral pericarditis, Sacterial pericarditis, Creat vein and atrial acquired abnormalities Systemic vein obstruction, Superior caval vein (SVC) abnormality: acquired, Postprocedural stoperior caval vein (KVC) complication, Interior caval vein (IVC) abnormality: acquired, Postprocedural interior caval vein (KVC) complication, Pulmonary venous abnormality: acquired, Postprocedural pulmonary vein complication,	10.05.01 10.05.21 10.05.33 10.05.33 10.05.03 10.06.00 10.06.01 10.06.41 10.06.20 10.07.03 10.07.03 10.07.03 10.08.03 10.08.03 10.08.04	390 391 397.9 394.9 395.9 421.0 421.0 421.0 421.0 421.0 420.9 420.9 420.9 420.9 450.9 450.9 450.9 450.9 450.9	79.9 425.6* 79.9 41.9 E878.8 E878.8	00 01 06.9 03.0 03.0 03.0 03.0 61.8 00.1 00.1 00.1 00.1 00.1 00.1 00.1 0	B97 H1.2* B97 B96.8 Y83.8 Y83.8 Y83.8	Miscellaneous, Other Pheumatic heart disease Rheumatic heart disease Mitral valve, Other Andric valve, Other Endocarditis Endocarditis Endocarditis Endocarditis Endocarditis Cardiac, Other Cardiac, Oth
Thoracic-mediastinal abnormality. Diagnostic codes for acquired and postprocedural abnormalities or disorders Rheumatic and infective heart disease Acute rheumatic fever, Rheumatic fever, Rheumatic fever with cardiac involvement, Rheumatic valvar disease, Pheumatic valvar disease, Pheumatic avide valvar disease, Frheumatic av	10.05.01 10.05.21 10.05.21 10.05.33 10.05.33 10.06.00 10.06.01 10.06.41 10.06.64 10.07.03 10.07.03 10.07.03 10.07.03 10.08.03 10.08.04	390 391 397.9 394.9 395.9 421.0 421.0 421.0 422.9 422.9 422.9 422.9 420.9 420.9 420.9 459.9 459.9 459.9 459.9	79.9 425.6* 79.9 41.9 E878.8 E878.8	100 101 105.9 105.9 133.0 133.0 133.0 151.8 140.0 187.9 187.9 187.9 187.9 187.9 187.9	B97 H1.2* B97 B96.8 Y83.8 Y83.8	Miscellaneous, Other Rheumalic heart disease Rheumalic heart disease Rheumalic heart disease Mitral valve, Other Aortic valve, Other Endocarditis Endocarditis Endocarditis Endocarditis Cardiac, Other Cardiac, Other Cardiac, Other Cardiac, Other Pericarditis Pericarditis Pericarditis Pericarditis Pericarditis Cardiac, Other
Thoracic-mediastinal abnormality. Diagnostic codes for acquired and postprocedural abnormalities or disorders Rheumatic and infective heart disease Acute rheumatic fever, Rheumatic fever, Rheumatic valvar disease, Pheumatic valvar disease, Pheumatic ordinar valvar disease, Pheumatic ordinar valvar disease, Pheumatic ordinar valvar disease, Pheumatic ordinar valvar disease, Pheumatic andire valvar disease, Postprocedural endocarditis, Postprocedural endocarditis, Postprocedural (Chagas' disease), Infectious prejocarditis, Viral prejocarditis, Viral pericarditis, Bacterial pericarditis, Bacterial pericarditis, Creat vein and atrial acquired abnormalities Systemic vein abnormality: acquired, Postprocedural superior caval vein (KVC) abnormality: acquired, Postprocedural superior caval vein (KVC) complication, Inferior caval vein (KVC) abnormality: acquired, Postprocedural pulmonary vein complication, Pulmonary venous abnormality: acquired, Postprocedural pulmonary vein complication, Pulmonary vein obstruction, Postprocedural major vein complication,	10.05.01 10.05.21 10.05.31 10.05.33 10.06.33 10.06.00 10.06.01 10.06.41 10.06.64 10.07.03 10.07.03 10.07.03 10.07.03 10.08.03 10.08.04 10.30.00 10.30.00 10.30.00 10.30.00 10.31.01 15.04.05 15.05.03 15.04.05 15.05.01 15.05.03	390 391 397.9 304.9 305.9 421.0 421.0 421.0 422.9 422.9 422.9 420.9 420.9 420.9 459.9 459.9 459.9 459.9 459.9	79.9 425.6* 79.9 41.9 E878.8 E878.8 E878.8	00 01 09.1 06.9 06.9 06.9 03.0 03.0 03.0 03.0 040.0 040.0 040.0 190.1 190.1 190.1 190.1 190.1 190.1 190.1 190.1 190.1 190.1 190.1 190.9 1	B97 W1.2* B97 B96.8 Y83.8 Y83.8 Y83.8 Y83.8 Y83.8	Miscellaneous, Other Rhoumalic heart disease Rhoumalic heart disease Rhoumalic heart disease Mitral valee, Other Andic valve, Other Endocarditis Endocarditis Endocarditis Endocarditis Cardiac, Other Cardiac, Other Cardiac, Other Cardiac, Other Cardiac, Other Pericarditis Pericarditis Pericarditis Pericarditis Cardiac, Other Pulmonary vein obstruction Peripheral vascular, Other Peripheral vascular, Other
Thoracic-mediastinal abnormality. Diagnostic codes for acquired and postprocedural abnormalities or disorders Rheumatic and infective heart disease Acute rheumatic fever, Rheumatic fever, Rheumatic fever with cardiac involvement, Pheumatic valvar disease, Pheumatic mitral valvar disease, Pheumatic mitral valvar disease, Pheumatic mitral valvar disease, Pheumatic and conductifis, Bacterial endocarditis, Postprocedural endocarditis, Postprocedural endocarditis, Postprocedural endocarditis, Viral myocarditis, Viral procarditis, Viral pericarditis, Bacterial pericarditis, Great vein and atrial acquired abnormalities Systemic vein abnormality: acquired, Systemic vein obstruction, Superior caval vein (SVC) abnormality: acquired, Postprocedural superior caval vein (SVC) complication, Inferior caval vein (VC) abnormality: acquired, Postprocedural pulmonary vein obstruction, Pulmonary venous abnormality: acquired, Postprocedural pulmonary vein complication, Pulmonary venous abnormality: acquired, Postprocedural inferior caval vein (GVC) complication, Pulmonary venous abnormality: acquired, Postprocedural inferior caval vein complication, Pustprocedural might en complication, Postprocedural right artial complication, Postprocedural right artial complication, Postprocedural right artial complication,	10.05.01 10.05.21 10.05.31 10.05.31 10.05.33 10.06.30 10.06.01 10.06.41 10.06.64 10.06.20 10.07.01 10.07.08 10.08.01 10.08.01 10.08.01 10.30.00 10.31.01 15.4.01 15.5.4.01 15.5.5.01 15.05.01 15.05.01 15.05.01 15.05.01	390 391 397.9 304.9 305.9 421.0 421.0 421.0 422.9 422.9 422.9 420.9 420.9 420.9 459.9 459.9 459.9 459.9 459.9 459.9 459.9 459.9	79.9 425.6* 79.9 41.9 E878.8 E878.8 E878.8	100 101 109.1 109.9 105.9 105.9 103.0 103.	B97 W1.2* B97 B96.8 Y83.8 Y83.8 Y83.8 Y83.8 Y83.8	Miscellaneous, Other Rhoumalic heart disease Rhoumalic heart disease Rhoumalic heart disease Rhoumalic heart disease Mitral valve, Other Andic valve, Other Endocarditis Endocarditis Endocarditis Endocarditis Cardiac, Other Cardiac, Other Cardiac, Other Cardiac, Other Pericarditis Pericarditis Pericarditis Pericarditis Cardiac, Other Peripheral vascular, Other Peripheral vascular, Other Cardiac, Other Cardiac, Other Cardiac, Other
Thoracic-mediastinal abnormality. Diagnostic codes for acquired and postprocedural abnormalities or disorders Rheumatic and infective heart disease Acute rheumatic fever, Rheumatic lever with cardiac involvement, Rheumatic valvar disease, Pheumatic mitral valvar disease, Pheumatic ovalvar disease, Pheumatic ovalvar disease, Pheumatic ovalvar disease, Pheumatic and covalvar disease, Pheumatic ovalvar	10.05.01 10.05.21 10.05.30 10.05.31 10.05.33 10.06.00 10.06.01 10.06.41 10.06.24 10.07.01 10.07.03 10.07.06 10.08.01 10.08.03 10.08.04 10.30.00 10.30.00 10.31.01 10.31.01 10.31.01 10.31.01 10.31.01 15.04.05 15.05.03 15.04.05 15.05.03 15.04.15	390 391 397,9 394,9 395,9 421,0 421,0 421,0 421,0 421,0 421,0 420,9 420,9 420,9 420,9 420,9 459,	79.9 425.6* 79.9 41.9 E878.8 E878.8 E878.8 E878.8 E878.8	100 101 109.1 105.9 106.9 106.9 103.0 103.	B97 W1.2* B97 B96.8 Y83.8 Y83.8 Y83.8 Y83.8 Y83.8	Miscellaneous, Other Rhoumalic heart disease Rhoumalic heart disease Rhoumalic heart disease Rhoumalic heart disease Mitral valve, Other Andro valve, Other Andro valve, Other Endocarditis Endocarditis Endocarditis Endocarditis Cardiac, Other Cardiac, Other Cardiac, Other Cardiac, Other Pericarditis Pericarditis Pericarditis Pericarditis Pericarditis Pericarditis Cardiac, Other
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Diagnostic codes for acquired and postprocedural abnormalities or disorders Rheumatic and infective heart disease Acute rheumatic fever, Rheumatic invert under disease, Rheumatic mitral valvar disease, Rheumatic ontria valvar disease, Rheumatic andic valvar disease, Rheumatic andic valvar disease, Rheumatic andic valvar disease, Rheumatic andicardits, Bacterial erocardits, Bacterial erocardits, Bacterial erocardits, Viral myocarditis, Viral myocarditis, Viral myocarditis, Viral myocarditis, Viral myocarditis, Bacterial pericarditis, Bacterial pericarditis, Bacterial pericarditis, Bacterial pericarditis, Bacterial pericarditis, Systemic vein obstruction, Systemic vein obstruction, Spepior caval vein (SVC) abnormality acquired, Postprocedural superior caval vein (SVC) complication, Valvarian vein distriction of the vein vein vein vein vein vein vein vei	10.05.01 10.05.21 10.05.21 10.05.31 10.05.31 10.05.33 10.06.00 10.06.01 10.06.01 10.06.01 10.06.01 10.06.01 10.06.01 10.06.01 10.06.01 10.07.08 10.08.01 10.08.01 10.08.01 10.30.00 10.30.09 10.31.01 15.04.01 15.05.01 15.05.01 15.05.01 15.10.11 15.10.13 15.10.20 15.10.21 15.10.63 15.10.21 15.10.63 15.10.66 10.17.50	390 391 397.9 304.9 305.9 421.0 421.0 421.0 422.9 422.9 422.9 422.9 422.9 420.9 420.9 420.9 420.9 459.	79.9 425.6* 79.9 41.9 E878.8 E878.8 E878.8 E878.8 E878.8 E878.8	00 01 09.1 09.1 06.9 06.9 06.9 03.0 03.0 03.0 03.0 03.0 03.0 03.0 03	B97 H1.2* B97 B96.8 Y83.8 Y83.8 Y83.8 Y83.8 Y83.8	Miscellaneous, Other Rhoumalic heart disease Rhoumalic heart disease Rhoumalic heart disease Mitral valee, Other Andic valee, Other Endocarditis Endocarditis Endocarditis Endocarditis Endocarditis Cardiac, Other Cardiac, Other Cardiac, Other Cardiac, Other Pericarditis Pericardiac, Other Cardiac, Other Tricuspid valve, Other
Diagnostic codes for acquired and postprocedural abnormalities or disorders Rheumatic and infective heart disease Acute rheumatic fever, Rheumatic fever disease, Rheumatic fever disease, Rheumatic ordica involvement, Rheumatic ordica valvar disease, Rheumatic mitral valvar disease, Rrichocardiis, Bacterial endocardiis, Postprocedural endocardiis, Postprocedural endocardiis, Postprocedural endocardiis, Viral myocardiis, Viral myocardiis, Viral myocardiis, Viral myocardiis, Bacterial pericardiis, Bacterial pericardiis, Bacterial pericardiis, Creat vein and atrial acquired abnormalities Systemic vein abnormality, acquired, Postprocedural superior caval vein (SVC) compleasion, Inferior caval vein (SVC) abnormality acquired, Postprocedural inferior caval vein (GVC) compleasion, Pulmonary venous abnormality, acquired, Postprocedural inferior caval vein (GVC) compleasion, Pulmonary venous abnormality acquired, Postprocedural inferior caval vein (GVC) compleasion, Postprocedural inferior acompleasion, Postprocedural inferior acompleasion, Postprocedural inferior distriction (ASD), Intellicetive baloon atrial septum compleasion, Postprocedural inferior atrial compleasi	10.05.01 10.05.21 10.05.20 10.05.33 10.05.33 10.06.50 10.06.60 10.06.64 10.06.20 10.07.01 10.07.03 10.07.03 10.07.03 10.08.03 10.08.03 10.08.03 10.30.00 10.31.01 15.04.01 15.04.01 15.04.05 15.05.01 15.10.13 15.10.21 10.17.40 10.17.40 10.17.50	390 391 397.9 394.9 395.9 421.0 421.0 421.0 421.0 422.9 422.9 422.9 422.9 420.9 420.9 459.8 459.	799 425.6° 799 419 419 E878.8 E878.8 E878.8 E878.8 E878.8 E878.8	100 101 105.9 106.9 103.0 103.	B97 H1.2* B97 B96.8 Y83.8 Y83.8 Y83.8 Y83.8 Y83.8 Y83.8	Miscellaneous, Other Pheumatic heart disease Pheumatic heart disease Miscellaneous, Other Aortic valve, Other Endocarditis Endocarditis Endocarditis Endocarditis Endocarditis Endocarditis Endocarditis Cardiac, Other Cardiac, Other Cardiac, Other Cardiac, Other Percarditis Percarditis Percarditis Percarditis Percarditis Cardiac, Other Tricuspid valve, Other Tricuspid valve, Other Tricuspid valve, Other Tricuspid valve, Other
Thoracic mediastinal abnormality. Diagnostic codes for acquired and postprocedural abnormalities or disorders Rheumatic and infective heart disease. Acus rheumatic lever, Preumatic with disease, Preumatic with disease, Preumatic disease, Preumatic disease, Preumatic and d	10.05.01 10.05.21 10.05.30 10.05.31 10.05.33 10.06.00 10.06.01 10.06.41 10.06.64 10.07.03 10.07.03 10.07.03 10.07.03 10.08.03 10.08.03 10.08.03 10.30.00 10.30.00 10.30.00 10.31.01 15.04.01 15.04.01 15.05.03 15.04.05 15.10.11 15.10.13 15.10.21 15.	390 391 397.9 394.9 395.9 421.0 421.0 421.0 429.8 429.9 420.9 420.9 420.9 420.9 459.8 459.	799 425.6° 799 419 419 E878.8 E878.8 E878.8 E878.8 E878.8 E878.8	00 01 09.1 05.9 06.9 03.0 03.0 03.0 03.0 03.0 06.9 07.0 16.8 07.9 07.9 07.9 07.9 07.9 07.9 07.9 07.9	B97 H1.2* B97 B96.8 Y83.8 Y83.8 Y83.8 Y83.8 Y83.8 Y83.8	Miscellaneous, Other Pheumatic heart disease Pheumatic heart disease Mitral valve, Other Andric valve, Other Endocarditis Endocarditis Endocarditis Endocarditis Endocarditis Endocarditis Endocarditis Cardiac, Other Cardiac, Other Cardiac, Other Cardiac, Other Pericarditis Pericarditis Pericarditis Pericarditis Pericarditis Pericarditis Pericarditis Pericarditis Cardiac, Other Ca
Thoracic mediastinal abnormality. Diagnostic codes for acquired and postprocedural abnormalities or disorders Rheumatic and infective heart disease. Actor feurnatic view with cardiac involvement, Rheumatic without disease, Pheumatic without disease, Pheumatic without disease, Pheumatic involvement disease, Pheumatic andric valvar disease, Pheumatic andric valvar disease, Pheumatic endocardis, Infective endocardis, Infective endocardis, Postprocedural endocardis, Postprocedural endocardis, Postprocedural endocardis, Postprocedural endocardis, Viral mycardis, Typanosonal mycardis, (Pragas' disease), Hefective periorardis, Viral periorardis, Viral periorardis, Sacretia periorardis, Sacretia periorardis, Viral periorardis, Vira	10.05.01 10.05.21 10.05.21 10.05.33 10.05.33 10.06.00 10.06.01 10.06.41 10.06.64 10.06.20 10.07.03 10.07.03 10.07.03 10.08.01 10.08.03 10.08.04 10.30.00 10.30.09 10.31.01 15.04.01 15.04.01 15.04.01 15.04.01 15.10.11 15.10.13 15.10.21 10.17.40 15.10.15 15.10.10 15.10.15 15.10.10 15.10.15 15.10.21 10.17.40 10.32.00 10.32.00 10.32.00 10.32.00 10.32.00 10.32.00 10.32.00 10.32.00 10.32.00 10.33.01 10.33.01 10.33.01 10.33.03	390 391 397.9 394.9 421.0 421.0 421.0 421.0 422.9 422.9 422.9 420.9 420.9 420.9 459.	799 425.6° 799 419 419 E878.8 E878.8 E878.8 E878.8 E878.8 E878.8	00 01 09.1 06.9 03.0 03.0 03.0 03.0 03.0 06.9 06.1 00.1 00.1 00.1 00.1 00.1 00.1 00.1	B97 H1.2* B97 B96.8 Y83.8 Y83.8 Y83.8 Y83.8 Y83.8 Y83.8	Miscellaneous, Other Pheumatic heart disease Pheumatic heart disease Mitral valve, Other Andric valve, Other Endocarditis Endocarditis Endocarditis Endocarditis Endocarditis Endocarditis Endocarditis Cardiac, Other Cardiac, Other Cardiac, Other Cardiac, Other Pericarditis Cardiac, Other Missistic valve failure Miral valve, Other
Thoracic mediastinal abnormality. Diagnostic codes for acquired and postprocedural abnormalities or disorders Rheumatic and infective heart disease Actor frustratic fever, Rheumatic verwith cardiac involvement, Rheumatic verwith cardiac involvement, Rheumatic verwith cardiac involvement, Rheumatic verwith cardiac frobease, Prisumatic verwith cardiac frobase, Prisumatic cardia verwith disease, Prisumatic cardia verwith disease, Prisumatic cardia verwith disease, Prisumatic cardia (see the cardiac), Intercent encocardials, Postprocedural endocardials, Postprocedural encocardials, Postprocedural encocardials, Viral mycardials, Viral pericardials, Viral perica	10.05.01 10.05.21 10.05.21 10.05.33 10.05.33 10.06.00 10.06.01 10.06.41 10.06.64 10.06.20 10.07.01 10.07.03 10.07.08 10.08.01 10.08.03 10.08.04 10.30.09 10.31.01 15.04.01 15.04.01 15.04.01 15.10.10 15.10.11 15.10.13 15.10.20 15.10.10 15.10.10 15.10.11 15.10.13 15.10.20 10.32.00 10.32.01 15.10.66 10.17.50 10.32.00 10.32.00 10.32.01 15.11.03 15.10.66 10.17.50	390 391 397.9 395.9 421.0 421.0 421.0 421.0 422.9 422.9 422.9 420.9 420.9 420.9 420.9 459.	799 425.6° 799 419 419 E878.8 E878.8 E878.8 E878.8 E878.8 E878.8	00 01 09.1 06.9 06.9 03.0 03.0 03.0 03.0 05.1 80.1 80.1 80.1 87.9 87.9 87.9 87.9 87.9 87.9 87.9 87.9	B97 H1.2* B97 B96.8 Y83.8 Y83.8 Y83.8 Y83.8 Y83.8 Y83.8 Y83.8	Miscellaneous, Other Pheumatic heart disease Pheumatic heart disease Mitral valve, Other Andric valve, Other Endocarditis Endocarditis Endocarditis Endocarditis Endocarditis Endocarditis Cardiac, Other Cardiac, Other Cardiac, Other Cardiac, Other Pericarditis Cardiac, Other Mitsal sterosis, Valvar Mitsal valve, Other Mitsal sterosis, Valvar Mitsal regurgitation
Thoracic mediastinal abnormality. Diagnostic codes for acquired and postprocedural abnormalities or disorders Rheumatic dan infective heart disease Acute rheumatic fever, Rheumatic verwind cardiac involvement, Rheumatic verwind cardiac involvement, Rheumatic verwind cardiac involvement, Rheumatic verwind resease, Price and institution of the process of the proce	10.05.01 10.05.21 10.05.20 10.05.33 10.05.33 10.06.00 10.06.61 10.06.64 10.06.20 10.07.01 10.07.03 10.07.03 10.07.03 10.08.03 10.08.03 10.08.03 10.30.09 10.30.09 10.31.01 15.04.01 15.04.01 15.04.01 15.04.01 15.04.01 15.10.13 15.10.13 15.10.13 15.10.13 15.10.13 15.10.13 15.10.13 15.10.13 15.10.13 15.10.13 15.10.13 15.10.21 10.17.40 10.32.00 10.32.00 10.32.00 10.32.00 10.32.00 10.32.00 10.32.00 10.32.00 10.32.00 10.32.00 10.32.00 10.32.00 10.33.00 10.32.01 10.33.00 10.33.01 10.33.01 10.33.02 10.33.03 10.33.04 10.33.04 10.33.04 10.33.04 10.33.04 10.33.04 10.33.04 10.33.04 10.33.04 10.33.04 10.33.04 10.33.04 10.33.04 10.33.04 10.33.04 10.33.04 10.33.04 10.33.04 10.33.04	390 391 397.9 394.9 395.9 421.0 421.0 421.0 421.0 421.0 421.0 422.9 422.9 422.9 420.9 420.9 459.	799 425.6* 799 419 E878.8 E878.8 E878.8 E878.8 E878.8 E878.8 E878.8 E878.8	00 01 08.1 06.9 06.9 03.0 03.0 03.0 03.0 06.1 00.1 00.1 00.1 00.1 00.1 00.1 00	B97 H1.2* B97 B96.8 Y83.8 Y83.8 Y83.8 Y83.8 Y83.8 Y83.8 Y83.8	Miscellaneous, Other Pheumatic heart disease Pheumatic heart disease Miral valve, Other Andric valve, Other Endocarditis Endocarditis Endocarditis Endocarditis Endocarditis Endocarditis Endocarditis Cardiac, Other Cardiac, Other Cardiac, Other Cardiac, Other Pericarditis Pericarditis Pericarditis Pericarditis Pericarditis Pericarditis Cardiac, Other
Thoracic mediastinal abnormality Diagnostic codes for acquired and postprocedural abnormalities or disorders Rheumatic low with cardiac incohement, Preumatic verwith cardiac and control verwith responsibility, Indicated and control verwith responsibility, Preparaceuridis, Bacterial endocardiis, Viral myocardiis, Viral myocardiis, Viral myocardiis, Bacterial pericardiis, Creat vein and atrial acquired abnormalities Systemic vein dostruction, Systemic vein dostruction, Systemic vein dostruction, Postprocedural seperior careal vein (IVC) jointormally acquired, Postprocedural inferior cavil vein (IVC) jointormally acquired, Postprocedural periormally acquired, Postprocedural periormally acquired, Postprocedural periormal vein complication, Pulmonary vein obstruction, Postprocedural periormal vein complication, Postprocedural right arial complication, Postprocedural responsibility and responsibility and responsibility and responsibility an	10.05.01 10.05.21 10.05.21 10.05.33 10.05.33 10.06.00 10.06.01 10.06.41 10.06.64 10.06.20 10.07.01 10.07.03 10.07.08 10.08.01 10.08.03 10.08.04 10.30.09 10.31.01 15.04.01 15.04.01 15.04.01 15.10.10 15.10.11 15.10.13 15.10.20 15.10.10 15.10.10 15.10.11 15.10.13 15.10.20 10.32.00 10.32.01 15.10.66 10.17.50 10.32.00 10.32.00 10.32.01 15.11.03 15.10.66 10.17.50	390 391 397.9 394.9 395.9 421.0 421.0 421.0 421.0 422.9 422.9 422.9 422.9 422.9 420.9 420.9 459.0 459.	79 9 425.6° 79 9 41.9 E878.8 E878.8 E878.8 E878.8 E878.8 E878.8 E878.8 E878.8	00 01 09.1 06.9 06.9 03.0 03.0 03.0 03.0 05.1 80.1 80.1 80.1 87.9 87.9 87.9 87.9 87.9 87.9 87.9 87.9	B97 H1.2* B97 B96.8 Y83.8 Y83.8 Y83.8 Y83.8 Y83.8 Y83.8 Y83.8	Miscellaneous, Other Pheumatic heart disease Pheumatic heart disease Mitral valve, Other Andric valve, Other Endocarditis Endocarditis Endocarditis Endocarditis Endocarditis Endocarditis Cardiac, Other Cardiac, Other Cardiac, Other Cardiac, Other Pericarditis Cardiac, Other Mitsal sterosis, Valvar Mitsal valve, Other Mitsal sterosis, Valvar Mitsal regurgitation

Truncal valvar abnormality: acquired, Residual truncal regurgitation,	10.37.01 15.25.03	424.9 746.9	E878.8	138 Q24.8	Y83.8	Cardiac, Other Truncal valve insufficiency
Common arterial trunk (truncus) abnormality: acquired,	10.51.01	447.8		177.8	100.0	Cardiac, Other
Postprocedural common arterial trunk complication,	15.25.31	447.8	E878.8	197.8		Cardiac, Other
Pulmonary valvar abnormality: acquired, Pulmonary valvar stenosis: acquired.	10.35.01 10.35.02	424.3 424.3		137.9 137.0		Pulmonary valve, Other Pulmonary stenosis, Valvar
Pulmonary valvar stenosis: recurrent,	10.35.03 10.35.04	424.3 424.3		137.0 137.1		Pulmonary stenosis, Valvar Cardiac, Other
Pulmonary regurgitation: acquired, Pulmonary valvar atresia: acquired,	09.05.15	424.3		137.8		Pulmonary atresia
Postprocedural pulmonary valvar complication, Residual pulmonary valvar stenosis,	15.30.00 15.30.01	424.3 746.0	E878.8 E878.8	137.9 Q22.1	Y83.8 Y83.8	Pulmonary valve, Other Pulmonary stenosis, Valvar
Residual pulmonary regurgitation,	15.30.03 15.30.08	746.0	E878.8	Q22.2 T82.0	Y83.8	Pulmonary insufficiency Prosthetic valve failure
Pulmonary valvar prosthesis complication,		996.0				
Aortic valvar abnormality: acquired, Aortic valvar stenosis: acquired,	10.36.01 10.36.02	424.1 424.1		135.9 135.0		Aortic valve, Other Aortic stenosis, Valvar
Aortic valvar stenosis: recurrent,	10.36.03 10.36.04	424.1		135.0 135.1		Aortic stenosis, Valvar Aortic insufficiency
Aortic regurgitation: acquired, Aortic regurgitation: recurrent,	10.36.06	424.1 424.1		135.1		Aortic insufficiency
Postprocedural aortic valvar complication, Residual aortic valvar stenosis,	15.35.00 15.35.01	424.1 746.3	E878.8 E878.8	I35.9 Q23.0	Y83.8 Y83.8	Aortic valve, Other Aortic stenosis, Valvar
Residual aortic regurgitation, Aortic valvar prosthesis complication,	15.35.03 15.35.08	746.4 996.0	E878.8	Q23.1 T82.0	Y83.8	Aortic insufficiency Prosthetic valve failure
Postprocedural atrioventricular septal defect complication, Residual ventricular component of atrioventricular septal defect,	15.16.00 15.16.02	429.8 745.6	E878.8 E878.8	Q21.2 Q21.2	Y83.8 Y83.8	Cardiac, Other VSD
Atrioventricular valvar abnormality in atrioventricular septal defect (AVSD): acquired, Left atrioventricular valvar requigitation: acquired,	10.34.60 10.34.44	424.9 424.0		138 134.0		Cardiac, Other Mitral regurgitation
Residual common atrioventricular valvar regurgitation,	15.13.02	746.9	E878.8	Q24.8	Y83.8	Cardiac, Other
Postprocedural right atrioventricular valvar complication, Postprocedural left atrioventricular valvar complication,	15.14.00 15.15.00	424.2 394.9	E878.8 E878.8	136.9 134.9	Y83.8 Y83.8	Cardiac, Other Cardiac, Other
Acquired ventricular and ventricular septal abnormalities						
	07.00.04	100.1		150.4		Cardiac, Other
Ventricular dyssynchrony, Right ventricular abnormality: acquired,	07.00.01 10.16.00	428.1 429.8		I50.1 I51.8		Cardiac, Other
Right ventricular dysfunction, Right ventricular-congestive heart failure,	07.01.11 10.16.08	429.8 428.0		I51.8 I50.0		Cardiac, Other Cardiac, Other
Postprocedural right ventricular complication, Postprocedural right ventricular outflow tract complication.	15.20.01 15.20.21	997.1 429.8	E878.8	197.8 151.8	Y83.8	Cardiac, Other Cardiac, Other
Right ventricular outflow tract obstruction: acquired,	10.16.16	429.8	E070.0	I51.8	103.0	Cardiac, Other
Aneurysm of right ventricular outflow tract patch, Residual right ventricular outflow tract obstruction,	15.20.25 15.20.23	996.7 746.8	E878.8	T82.8 Q24.8	Y83.8	Aneurysm, Ventricular, Right Cardiac, Other
Left ventricular abnormality: acquired,	10.16.40	429.8		151.8		Cardiac, Other
Left ventricular dysfunction,	07.06.10	429.8		I51.8		Cardiac, Other
Left ventricular failure, Postprocedural left ventricular complication,	10.16.47 15.21.01	428.1 997.1		I50.1 I97.8		Cardiac, Other Cardiac, Other
Postprocedural left ventricular outflow tract complication, Recurrent left ventricular outflow tract obstruction.	15.21.21 10.16.46	429.8 429.8	E878.8	I51.8 I51.8	Y83.8	Cardiac, Other Cardiac, Other
Residual left ventricular outflow tract obstruction,	15.21.22	746.8	E878.8	Q24.8	Y83.8	Cardiac, Other
Narrowing of constructed intraventricular tunnel: acquired, Subaortic stenosis: acquired,	10.16.81 10.16.86	996.7 429.8		T82.8 I51.8		Cardiac, Other Aortic stenosis, Subvalvar
Subaortic stenosis in complex heart disease: acquired, Residual subaortic stenosis in complex heart disease,	10.16.82 15.20.75	429.8 429.8	E878.8	I51.8 I51.8	Y83.8	Aortic stenosis, Subvalvar Aortic stenosis, Subvalvar
Subpulmonary stenosis: acquired,	10.16.88	429.8	2070.0	151.8		Pulmonary stenosis, Subvalvar
Subpulmonary stenosis in complex heart disease: acquired, Residual subpulmonary stenosis in complex heart disease,	10.16.83 15.20.76	429.8 429.8	E878.8	I51.8 I51.8	Y83.8	Pulmonary stenosis, Subvalvar Pulmonary stenosis, Subvalvar
Abnormality associated with ventricular septum: acquired,	10.16.60	429.8		151.0		Cardiac, Other
Postmyocardial infarct vertricular septal defect (VSD), Residual vertricular septal defect (VSD),	10.16.62 15.22.02	410 745.4	E878.8	123.2 Q21.0	Y83.8	VSD VSD
	13.22.02	745.4	E878.8	Q21.0	103.0	V3D
Cardiomyopathy and heart muscle diseases						
Myocardial failure in end stage congenital heart disease, Cardiomyopathy.	10.07.40 10.10.01	428.9 425.4	746.9	150.9 142.9	Q24.9	Cardiomyopathy, End-stage congenital heart disease Cardiomyopathy (including dilated, restrictive, and hypertrophic)
Ventricular myocardial noncompaction cardiomyopathy,	07.08.50	425.4		142.8		Cardiomyopathy (including dilated, restrictive, and hypertrophic)
Hypertrophic cardiomyopathy, Dilated cardiomyopathy,	10.10.20 10.10.25	425.4 425.4		142.2 142.0		Cardiomyopathy (including dilated, restrictive, and hypertrophic) Cardiomyopathy (including dilated, restrictive, and hypertrophic)
Arrhythmogenic right ventricular cardiomyopathy, Endocardial fibroelastosis.	07.01.10 10.10.12	425.4 425.3		142.8 142.4		Cardiomyopathy (including dilated, restrictive, and hypertrophic) Cardiomyopathy (including dilated, restrictive, and hypertrophic)
diopathic restrictive cardiomyopathy,	10.10.11	425.4		142.5		Cardiomyopathy (including dilated, restrictive, and hypertrophic)
Infiltrative cardiomyopathy, Drug induced heart muscle disease,	10.10.13 10.07.05	425.4 425.9		142.8 142.7		Cardiomyopathy (including dilated, restrictive, and hypertrophic) Cardiomyopathy (including dilated, restrictive, and hypertrophic)
Nutritional heart muscle disease, Heart muscle disease in collagen vascular/ connective tissue disorder,	10.07.61 10.07.81	269.9† 710.9†	425.7* 425.8*	E63.9† M35.9†	43.2* 43.8*	Cardiomyopathy (including dilated, restrictive, and hypertrophic) Cardiomyopathy (including dilated, restrictive, and hypertrophic)
		,				
Acquired pulmonary arterial abnormalities						
Pulmonary arterial disease: acquired, Right pulmonary arterial stenosis: acquired,	10.13.50 10.13.68	417.9 417.8		128.9 128.8		Cardiac, Other Pulm art stenosis, Branch, Central
Left pulmonary arterial stenosis: acquired, Postprocedural pulmonary trunk complication.	10.13.69 15.32.01	417.8 417.8	E878.8	128.8 128.8	Y83.8	Pulm art stenosis, Branch, Central Cardiac, Other
Postprocedural right pulmonary artery complication,	15.32.21	417.8	E878.8	128.8	Y83.8	Cardiac, Other
Postprocedural left pulmonary artery complication, Residual right pulmonary artery stenosis,	15.32.41 15.32.23	417.8 747.3	E878.8 E878.8	128.8 Q25.6	Y83.8 Y83.8	Cardiac, Other Pulm art stenosis, Branch, Central
Residual left pulmonary artery stenosis,	15.32.43	747.3	E878.8	Q25.6	Y83.8	Pulm art stenosis, Branch, Central
Pulmonary arterial hypertension,	10.13.01	416.8		127.0		Miscellaneous, Other
Primary pulmonary hypertension, Secondary pulmonary hypertension,	10.13.02	416.0				
Pulmonary hypertension due to left to right shunt,	10.13.20	416.8		127.0 127.8		Primary pulmonary hypertension Miscellaneous, Other
Pulmonary vascular disease	10.13.21	416.8				
Pulmonary vascular disease, treversible pulmonary vascular disease due to congenital heart disease (Eisenmenger Syndrome),	10.13.21 10.13.06 10.13.08	416.8 416.8 416.8		127.8 127.8 127.8 127.8		Miscellaneous, Other Miscellaneous, Other Pulmonary vascular obstructive disease Pulmonary vascular obstructive disease (Eisenmenger's)
	10.13.21 10.13.06	416.8 416.8		127.8 127.8 127.8		Miscellaneous, Other Miscellaneous, Other Pulmonary vascular obstructive disease
Irreversible pulmonary vascular disease due to congenital heart disease (Eisenmenger Syndrome), Pulmonary embolism,	10.13.21 10.13.06 10.13.08 10.13.51	416.8 416.8 416.8 415.1		127.8 127.8 127.8 127.8 126.9		Miscellaneous, Other Miscellaneous, Other Pulmonary vascular obstructive disease Pulmonary vascular obstructive disease (Eisenmenger's) Pulmonary embolism
Irreversible pulmonary vascular disease due to congenital heart disease (Eisenmenger Syndrome), Pulmonary embotism, Pulmonary oedema, Acquired systemic arterial, coronary and ductal abnormalities	10.13.21 10.13.06 10.13.08 10.13.51 10.30.30	416.8 416.8 416.8 415.1 514		127.8 127.8 127.8 127.8 126.9 J81		Miscollaneous, Other Miscollaneous, Other Pulmonary vascular obstructive disease Pulmonary vascular obstructive disease Pulmonary vascular obstructive disease (Elsenmenger's) Pulmonary embolism Miscollaneous, Other
Preversible pulmonary vascular disease due to congenital heart disease (Eisenmenger Syndrome), Pulmonary coedema, Acquired systemic arterial, coronary and ductal abnormalities Abnormality of aorta: acquired, Supravalvar aortic stenosis: acquired,	10.13.21 10.13.06 10.13.08 10.13.51 10.30.30 10.14.70 10.14.77	416.8 416.8 416.8 415.1 514 447.8 447.8		127.8 127.8 127.8 127.8 126.9 J81 177.8		Miscolareous, Other Miscolareous, Other Pulmonary vascular obstructive disease Pulmonary vascular obstructive disease Pulmonary vascular obstructive disease (Eisenmenger's) Pulmonary embolism Miscellaneous, Other Cardiac, Other Aortic stenosis, Supravalvar
Inversible pulmonary vascular disease due to congenital heart disease (Eisenmenger Syndrome), Pulmonary embolsim, Pulmonary oedema, Acquired systemic arterial, coronary and ductal abnormalities Abnormality of aorta: acquired,	10.13.21 10.13.06 10.13.08 10.13.51 10.30.30	416.8 416.8 416.8 415.1 514		127.8 127.8 127.8 127.8 126.9 J81 177.8 177.1 177.1 171.9		Miscolairaous, Other Miscolairaous, Other Pulmonary vascular obstructive disease Pulmonary vascular obstructive disease Pulmonary vascular obstructive disease (Eisenmenger's) Pulmonary embolism Miscolairaous, Other Cardiac, Other Aortic stenosis, Supravalvar Coarctation of aorta Cardiac, Other
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Inversible pulmonary vacular disease due to congenital heart disease (Eisenmenger Syndrome), Pulmonary embolsm, Pulmonary embolsm, Pulmonary odetena, Acquired systemic arterial, coronary and ductal abnormalities Abnormality of aorta: acquired, Supravalvar aortic isenosis: acquired, Recoardation of aorta, Ascending aorth dislation: acquired, Ascending aorth dislation: acquired, Ascending aorth dislation: acquired, Aortic root dislation, Aortic dissection, Aortic dissection, Aortic dissection, Ascending aorta dissection & propagation beyond arch (DeBakey type I), Ascending aorta dissection beyond arch (DeBakey type II) Starford type A), Descending aorta dissection at the beyond arch (DeBakey type III) Starford type B), Aortic anautysm, Ascending aorta aneurysm, Ascending aorta aneurysm, Abdominal aortic aneurysm, Rupture of bornacic aortic aneurysm, Rupture of bornacic aortic aneurysm, Postprocedural aortic complication, Postprocedural descending aorta complication, Postprocedural discending aorta complication, Postprocedural systemic arterial complication, Postprocedural systemic arterial complication, Systemic arteriis, Kawasaki disease with aneurysm() or dilated coronary vessels, Acquired coronary anterial disease, Kohaemic heart d	10.13.21 10.13.06 10.13.08 10.13.51 10.30.30 10.14.70 10.14.70 10.14.72 10.14.72 10.14.72 10.14.62 10.14.51 10.14.52 10.14.53 10.14.54 10.14.54 10.14.54 10.14.54 10.14.54 10.14.54 10.14.54 10.14.55 10.14.54 10.14.54 10.14.54 10.14.55 10.14.54 10.14.54 10.14.55 10.14.54 10.14.54 10.14.55 10.	416.8 416.8 416.8 416.8 415.1 514 447.1 447.1 441.5 441.6 441.0 441.0 441.0 441.0 441.2 441.2 441.2 441.2 441.2 441.2 441.2 441.2 441.3 447.8 44	E878.8 E878.8 E878.8 E878.8	27.8 27.8 27.8 26.9 381 77.1 77.1 77.1 77.1 77.1 77.1 77.1 77	Y83.8 Y83.8 Y83.8 Y83.8 Y83.8	Miscollaneous, Other Miscollaneous, Other Pulmonary vascular obstructive disease Pulmonary vascular obstructive disease Pulmonary vascular obstructive disease (Eisenmenger's) Pulmonary embolism Miscollaneous, Other Cardiac, Other Andric stenosis, Supravalvar Coarctation of aorta Cardiac, Other Cardiac, Other Cardiac, Other Cardiac, Other Andric dissection Andric dissection Andric dissection Andric dissection Andric dissection Andric aneurysm (including pseudoaneurysm) Andric dissection Cardiac, Other Peripheral vasculature, Other Miscollaneous, Other Miscollaneous, Other Coronary artery anomaly, Aneurysm Coronary artery anomaly, Other Myccardial infarction Myccardial infarction Myccardial infarction Myccardial infarction

Systemic hypertension,	10.14.01 10.14.02	401.9 401.9		I10 I10		Miscellaneous, Other Miscellaneous, Other
Primary (essential) systemic hypertension, Secondary systemic hypertension,	10.14.00	405.9		115.9		Miscellaneous, Other
Systemic hypertension due to aortic arch obstruction,	10.14.04	405.9		115.8		Miscellaneous, Other
Arterial duct (ductus arteriosus) abnormality: acquired, Postprocedural arterial duct complication,	10.14.80 15.39.01	447.8 447.8	E878.8	177.8 177.8	Y83.8	Cardiac, Other Cardiac, Other
Residual arterial duct (PDA) patency, Postprocedural systemic-to-pulmonary collateral artery complication,	15.39.02 15.39.50	747.0 447.8	E878.8 E878.8	Q25.0 I77.8	Y83.8 Y83.8	Patent ductus arteriosus Cardiac, Other
		447.0	2070.0			
Acquired cardiac conduit-shunt, pericardial, post-transplant & miscellaneous abnormalities				w		
Cardiac conduit complication, Cardiac conduit failure,	15.55.00 15.55.16	996.7 996.0		T82.9 T82.5		Conduit failure Conduit failure
Systemic-to-pulmonary arterial shunt complication, Systemic-to-pulmonary arterial shunt partial obstruction,	15.56.00 15.56.01	996.0 996.7		T82.9 T82.5		Shunt failure Shunt failure
Systemic-to-pulmonary arterial shunt complete obstruction, Systemic-to-pulmonary arterial shunt failure	15.56.02 15.56.21	996.0 996.7		T82.5 T82.9		Shunt failure Shunt failure
Pulmonary autograft failure,	15.55.24	996.7		T82.8		Shunt failure Cardiac, Other
Failed Fontan type circulation, Pericardial abnormality: acquired,	15.90.60 10.08.29	998.9 423.9		T81.8 I31.9		Pericardial disease, Other
Pericarditis, Constrictive pericarditis,	10.08.00 10.08.09	420.9 423.2		I30.9 I31.1		Pericarditis Pericardial disease, Other
Pericardial effusion, Chylopericardium,	10.08.31 10.08.15	423.9 457.8		131.3 131.3		Pericardial effusion Pericardial effusion
Pericardial effusion requiring drainage, Cardiac tamponade.	15.83.00 10.08.13	423.9 423.9		I31.3 I31.9		Pericardial effusion requiring drainage Pericardial effusion requiring drainage
Heart tumour, Traumatic injury of heart,	10.03.01 10.90.01	239.8 861.0		D48.7 S26		Cardiac tumor Cardiac, Other
Complication after heart or lung transplant,	15.95.00	996.8	E878.0	197.9	Y83.0	Cardiac, Other
Heart muscle disease in cardiac rejection, Cardiac transplant associated coronary allograft vasculopathy,	10.07.42 15.41.13	996.8 414.0	996.8	T86.2 I25.1	T86.2	Cardiac, Other Coronary artery anomaly, Other
Lung disease in lung transplant rejection, Post-lung transplant obliterative bronchiolitis,	15.95.66 15.95.64	996.8 491.8	996.8	T86.3 J44.8	T86.3	Thoracic and-or mediastinal, Other Thoracic and-or mediastinal, Other
Lymphoproliferative disease following transplantation,	15.95.03	E878.0	C88.9	C88.9	Y83.0	Miscellaneous, Other
Diagnostic codes for rhythm and conduction disturbances						
Electrocardiographic (ECG) abnormality,	11.20.00	794.3		R94.3		Arrhythmia
Arrhythmia, Cardiac arrest,	11.00.00 11.00.21	427.9 427.5		49.9 46.9		Arrhythmia Arrhythmia
Sinus bradycardia,	11.02.04	427.8		149.8		Arrhythmia
Vagal sinus bradycardia: bradycardia(s) of prematurity, Sinus tachycardia,	11.02.15 11.02.07	427.8 427.8		149.8 147.1		Arrhythmia Arrhythmia
Sudden Arrhythmic Death Syndrome (SADS),	11.00.11	798.1		146.1		Arrhythmia
Supraventricular rhythm disturbance, Supraventricular tachycardia,	11.01.01 11.01.00	427.0 427.0		149.8 147.1		Arrhythmia, atrial Arrhythmia, atrial
Focal atrial tachycardia: ectopic (automatic),	11.03.12	427.8		147.1		Arrhythmia, atrial
Multifocal atrial tachycardia (chaotic),	11.03.15	427.8		147.1		Arrhythmia, atrial
Premature atrial beats (complexes-contractions), Macro-reentrant atrial tachycardia (including atrial flutter),	11.03.21 11.03.13	427.6 427.8		149.1 147.1		Arrhythmia, atrial Arrhythmia, atrial
Cavotricuspid isthmus dependent reentry atrial tachycardia: atrial flutter, Non-cavotricuspid isthmus dependent atrial tachycardia,	11.03.66 11.03.67	427.8 427.8		149.8 149.8		Arrhythmia, atrial Arrhythmia, atrial
Atrial flutter,	11.03.07	427.3		48 48		Arrhythmia, atrial Arrhythmia, atrial
Atrial fibrillation, Paroxysmal atrial tachycardia,	11.03.05	427.3 427.0		H8 H7.1		Armynmia, atrial Arrhythmia, atrial
Rhythm disturbance at level of AV junction,	11.04.00	427.8		149.8		Arrhythmia, junctional
Atrioventricular junctional (nodal) tachycardia, Atrioventricular nodal reentry tachycardia (AVNRT),	11.04.07 11.04.11	427.0 427.0		147.1 147.1		Arrhythmia, junctional Arrhythmia, junctional
Junctional ectopic tachycardia (His bundle),	11.04.42	427.0		147.1		Arrhythmia, junctional
AV reciprocating (reentry) tachycardia (accessory pathway mediated), Manifest accessory pathway,	11.07.29 11.07.11	426.7 426.7		145.6 145.6		Arrhythmia, atrial Arrhythmia, atrial
AV reciprocating (reentry) tachycardia: manifest preexcitation in sinus rhythm (Wolff Parkinson White), Accessory pathway: retrograde conduction only (concealed: no preexcitation sinus rhythm),	11.07.01 11.07.06	426.7 426.7		145.6 145.8		Arrhythmia, atrial Arrhythmia, atrial
AV reciprocating (reentry) tachycardia: orthodromic, AV reentry (reciprocating) tachycardia: antidromic (typically wide QRS),	11.07.22 11.07.23	426.7 426.7		145.6 145.6		Arrhythmia, atrial Arrhythmia, atrial
AV reentry (reciprocating) tachycardia: orthodromic & antidromic,	11.07.28	426.7		45.6		Arrhythmia, atrial
Permanent junctional reciprocating tachycardia (PJRT), Multiple accessory pathways,	11.07.14 11.07.26	427.8 426.7		147.1 145.6		Arrhythmia, atrial Arrhythmia, atrial
Ventricular rhythm disturbance,	11.05.00	427.8		149.8		Arrhythmia, ventricular
Ventricular tachycardia, Non-sustained ventricular tachycardia,	11.05.06 11.05.50	427.1 427.1		147.2 147.2		Arrhythmia, ventricular Arrhythmia, ventricular
Macro-reentrant ventricular tachycardia, Focal ventricular tachycardia,	11.05.57 11.05.56	427.1 427.1		47.2 47.2		Arrhythmia, ventricular Arrhythmia, ventricular
Ventricular flutter,	11.05.09	427.4		149.0		Arrhythmia, ventricular
Ventricular fibrillation, Premature ventricular beats (complexes-contractions),	11.05.10 11.05.21	427.4 427.6		149.0 149.3		Arrhythmia, ventricular Arrhythmia, ventricular
Conduction disturbance,	11.06.00	426.9		145.9		Arrhythmia, Heart block
Sinoatrial block, Sinus node dysfunction (including sick sinus),	11.06.01 11.02.03	426.6 427.8		45.5 49.5		Arrhythmia, atrial Arrhythmia, atrial
1st degree atriovertricular block, 2nd degree atriovertricular block,	11.06.02 11.06.03	426.1 426.1		144.0 144.1		Arrhythmia, atrial Arrhythmia, atrial
Complete atrioventricular block (3rd degree),	11.06.07	426.0		144.2		Arrhythmia, Heart block
Congenital complete heart block, Acquired complete atrioventricular block,	11.06.16 11.06.10	746.8 426.0		Q24.6 I44.2		Arrhythmia, Heart block, Congenital Arrhythmia, Heart block, Acquired
Complete right bundle branch block, Complete left bundle branch block,	11.06.23 11.06.24	426.4 426.3		145.1 144.7		Arrhythmia Arrhythmia
Morphological abnormality of conduction system, lon channelopathy,	11.23.00 11.12.00	746.8 427.1		Q24.8 I47.2		Arrhythmia Arrhythmia
Prolonged QT interval,	11.12.01	426.9		45.8		Arrhythmia
Long QT syndrome, Catecholaminergic polymorphic ventricular tachycardia,	11.12.29 11.05.17	426.9 427.1		45.8 47.2		Arrhythmia Arrhythmia
Brugada syndrome (ventricular tachycardia with anterior raised ST),	11.05.44	427.1		47.2		Arrhythmia
Complication following arrhythmia related procedure, Pacemaker dysfunction-complication,	15.51.00 11.11.01	998.9 996.0		T81.8 T82.1		Miscellaneous, Other Arrhythmia, Pacemaker, Indication for replacement
Pacemaker battery exhaustion: end of life (EOL), Pacemaker-implantable cardioverter & defibrillator (ICD) loss of capture,	11.11.03 11.11.17	996.0 996.0		T82.1 T82.1		Arrhythmia, Pacemaker, Indication for replacement Arrhythmia, Pacemaker, Indication for replacement
Pacemaker dysfunction-complication necessitating replacement,	11.11.00	996.0		T82.1		Arrhythmia, Pacemaker, Indication for replacement
Pacemaker (atrioventricular dyssynchrony) syndrome, Pacemaker lead dysfunction-complication,	11.11.21 11.11.40	996.0 996.0		T82.1 T82.1		Arrhythmia, Pacemaker, Indication for replacement Miscellaneous, Other
Pacemaker generator site local complication, Insertable electrocardiographic (ECG) loop recorder complication,	11.11.59 11.11.80	996.0 996.0		T82.9 T82.9		Miscellaneous, Other Miscellaneous, Other
Implantable cardioverter & defibrillator (ICD) dysfunction-complication,	11.11.60	996.0		T82.1		Miscellaneous, Other
Diagnostic codes for lung and thoracic disease						
Tracheobronchial malacia,	14.03.49	519.1		J98.0		Tracheal disease, Other
Tracheal stenosis, Tracheal disease,	16.10.01 16.10.09	519.1 519.1		J39.8 J39.8		Tracheal stenosis Tracheal disease, Other
Lung disease,	16.03.05 16.03.01	518.8 510.9		J98.4 D14.3		Lung disease, Benign Lung disease, Benign
Lung disease: benign, Lung disease: malignant,	16.03.21	212.3		C34.9		Lung disease, Malignant
Airway disease, Asthma,	16.09.00 16.03.10	519.8 493.9		J98.8 J45.9		Airway disease, Lung disease, Benign
Lower respiratory tract infection, Traumatic injury of tracheobronchial tree or lungs,	16.03.02 10.90.24	162.9 519.1		J98.8 J98.0		Pneumonia Tracheal disease, Other
Acquired bronchial disease,	16.08.00	519.1		J98.0		Thoracic and-or mediastinal, Other Thoracic and-or mediastinal, Other
Bronchial fistula, Respiratory failure,	16.02.00 16.30.01	510.0 518.9		J86.0 J96.9		Thoracic and-or mediastinal, Other
Pneumothorax, Pleural effusion,	16.01.01 16.01.04	518.8 512		J93.9 J90		Pneumothorax Pleural effusion
Chylothorax, Empyema,	16.01.07 16.01.11	511.9 457.8		J94.0 J86		Chylothorax Empyema
Pleural disease: benign,	16.01.21	212.4		D15.7		Pleural disease, Benign
Pleural disease: malignant, Cesophageal disorder,	16.01.22 16.20.10	163.9 530		C38.4 K22.9		Pleural disease, Malignant Thoracic and-or mediastinal, Other
Oesophageal disease: benign, Oesophageal disease: malignant,	16.20.01 16.20.02	211.0 150.9		D13.0 C15.9		Esophageal disease, Benign Esophageal disease, Malignant
Mediastinal disease,	16.05.13	519.3		J98.5		Mediastinal disease

Maladadalahan	16.05.11	212.5	D15.2	Mediastinal disease, Benign
Mediastinal disease: benign, Mediastinal disease: malignant,	16.05.12	164.9	C38.3	Mediastinal disease, Malignant
Diaphragm disease, Diaphragm disorder: acquired,	16.15.09 16.13.00	519.4 553.3	J98.6 J98.6	Diaphragm disease, Other Diaphragm disease, Other
Diaphragm paralysis, Miscrifoskeletal chest pain	16.13.20 10.18.52	519.4 729.9	J98.6 M62.8	Diaphragm paralysis Miscellaneous, Other
	10.10.02	729.9	1002.0	Wildelia i Bota, Outer
Diagnostic codes for symptoms and signs				
Symptom-sign of heart disease, Syncope.	10.17.00 10.40.01	785.9 780.2	R09.8 R55	Miscellaneous, Other Miscellaneous, Other
Cyanosis,	10.17.03	782.5	R23.0	Miscellaneous, Other
Heart failure, Cvanotic spells.	10.17.05 10.17.12	428.9 785.9	I50.9 R09.8	Cardiac, Other Cardiac, Other
Palpitations,	10.17.13	785.1	R00.2	Miscellaneous, Other
Chest pain, Failure to thrive,	10.12.42 10.12.39	786.5 783.4	R07.4 R62.8	Miscellaneous, Other Miscellaneous, Other
Hypotension,	10.40.30	458.9	195.9 120.9	Miscellaneous, Other Cardiac, Other
Angina pectoris, Shock,	10.12.51 10.17.23	413 785.5	R57.9	Miscellaneous, Other
Cardiac symptom without pathology,	10.17.09	785.9	R09.8	
Diagnostic codes for Preoperative Risk Factors				
No pre-procedural risk factors.	10.20.00	nc	nc	None
Preprocedural risk factor,	10.20.19	nc	nc P07.1	Other preoperative risk factor Other preoperative risk factor
Weight less than 2.5 kg, Obesity (Body Mass Index over 30),	10.22.07 14.03.59	765.1 278.0	E66.9	Other preoperative risk factor
Preprocedural arrhythmia, Preprocedural complete atrioventricular block,	10.20.03 11.06.35	427.9 426.0	49.9 44.2	Preoperative arrhythmia Preoperative complete AV block
Preprocedural shock,	10.20.02	785.5	R57.0 R57.0	Preoperative shock
Preprocedural shock at time of surgery (persistent), Preprocedural shock resolved by time of surgery,	10.20.31 10.20.32	785.5 785.5	R57.0	Preoperative shock - persistent Preoperative shock - resolved
Preprocedural cardiopulmonary resuscitation (less than 48 hours),	10.20.33 10.20.05	427.5	I46.9 E87.8	Preoperative shock Preoperative acidosis
Preprocedural acidosis, Preprocedural myocardial dysfunction,	10.20.34	276.9 429.8	I51.8	Other preoperative risk factor
Preprocedural pulmonary hypertension, Preprocedural pulmonary hypertension (pulmonary pressure more than or equal to systemic pressure): echo data,	10.20.16 10.20.45	518.5 518.5	J95.8 J95.8	Preoperative pulmonary hypertensive crises (PA pressure > systemic pressure) arterial pressure) - Data source = ECHO
Preprocedural pulmonary hypertension (pulmonary pressure more than or equal to systemic pressure): catheter data,	10.20.46	518.5	J95.8	arterial pressure) - Data source = CATH
Elevated lung resistance for biventricular repair (over 6 Wood units), Elevated lung resistance for heart transplant (over 4 Wood units),	10.13.63 10.13.64	416.8 416.8	127.8 127.8	Other preoperative risk factor Other preoperative risk factor
Elevated lung resistance for univentricular repair (over 2 Wood units),	10.13.65 10.20.37	416.8 465.9	I27.8 J12.1	Other preoperative risk factor Other preoperative risk factor
Preprocedural respiratory syncytial virus (RSV) infection, Preprocedural mechanical ventilatory support,	10.20.14	V46.1	Z99.1	Preoperative mechanical ventilatory support
Preprocedural tracheostomy, Preprocedural renal failure (creatinine over 176micromol/l),	10.20.17 10.20.07	V44.0 584.9	Z93.0 N17.9	Preoperative tracheostomy Preoperative renal failure (creatinine > 2)
Preprocedural renal failure requiring dialysis,	10.20.08	V45.1	Z99.2	Preoperative renal failure requiring dialysis Other preoperative risk factor
Preprocedural necrotising enterocolitis: treated medically, Preprocedural necrotising enterocolitis: treated surgically,	10.20.38 10.20.39	777.5 777.5	P77 P77	Other preoperative risk factor Other preoperative risk factor
Preprocedural coagulation disorder,	10.20.06 10.20.15	286.9 V46.8	D68.9 Z99.8	Preoperative bleeding disorder Preoperative mechanical circulatory support (IABP, VAD, ECMO, or CPS)
Preprocedural mechanical circulatory support, Preprocedural septicaemia,	10.20.09	V46.8 038.9	A41.9	Preoperative septicemia
Preprocedural endocarditis, Preprocedural neurological impairment,	10.06.65 10.20.12	421.0 348.9	133.0 G93.9	Preoperative endocarditis Preoperative neurological deficit
Preprocedural seizures,	10.20.18	345.9	R56.8	Preoperative seizures
Preprocedural cerebral abnormality on imaging, Diabetes mellitus,	10.20.13 14.03.90	793 250.0	R90.8 E14	Other preoperative risk factor Other preoperative risk factor
Hypothyroidism,	14.03.52	244.9	E03.9	Other preoperative risk factor
Hyperthyroidism, Smoking: tobacco use,	14.03.75 14.04.70	242.9 V15.8	E05.9 Z72.0	Other preoperative risk factor Other preoperative risk factor
Cadaa fay diamaadia waaadiyaa				
Codes for diagnostic procedures				
Clinical evaluation of patient, Diagnostic investigation,	13.00.01 13.00.02			
Electrocardiogram (ECG),	13.00.10			
Ambulatory electrocardiography (ECG) recording, 24 hour electrocardiogram (ECG) recording,	13.00.17 13.00.11			
Insertable electrocardiogram (ECG) loop recorder (e.g. Reveal) implantation,	13.00.14			
Insertable electrocardiogram (ECG) loop recorder (e.g. Reveal) removal, Arrhythmia provocation test,	13.00.15 13.00.50			
Tilt table testing, Exercise stress test	13.00.27 13.00.13			
Cardiopulmonary exercise stress test,	13.00.16			
Ambulatory blood pressure monitoring, Chest x-ray.	13.00.36 13.00.21			
Echocardiographic examination,	13.01.00			
Transthoracic echocardiographic examination, Transoesophageal echocardiographic examination,	13.01.02 13.01.03			Echocardiography procedure, Sedated transthoracic echocardiogram Echocardiography procedure, Sedated transesophageal echocardiogram
Epicardial echocardiographic examination,	13.01.04			
Transluminal intracardiac echocardiographic examination, Intravascular ultrasound (IVUS) examination,	13.01.24 13.01.27			
Transluminal intracoronary echocardiography (IVUS),	12.23.41			
Computerised tomographic scan of chest,	13.00.23			Radiology procedure on cardiac patient, Cardiac Computerized Axial Tomography (CT Scan)
No code constant to condition of code code code code	10.00.00			Radiology procedure on cardiac patient, Non-Cardiac Computerized Tomography
Non-cardiac computed tomographic angiography on cardiac patient,	13.00.32			(CT) on cardiac patient Radiology procedure on cardiac patient, Cardiac Magnetic Resonance Imaging
Cardiovascular Magnetic Resonance Imaging (CMRI),	13.00.24			(MRI) Radiology procedure on cardiac patient, Non-cardiac Magnetic Resonance
Non-cardiovascular Magnetic Resonance Imaging on cardiac patient,	13.00.33			Imaging (MRI) on cardiac patient
Myocardial perfusion scan, Exploratory procedure to assess heart,	13.00.31 12.32.03			
Post mortern examination of heart-lungs, Pulmonary Function Tests.	13.00.71 13.00.25			
Diagnostic cardiovascular catheterisation procedure,	13.05.01			
Diagnostic radiographic procedure on cardiac patient, Therapeutic radiological procedure on cardiac patient,	13.00.34 13.00.35			Radiology procedure on cardiac patient, Diagnostic radiology Radiology procedure on cardiac patient, Therapeutic radiology
- with sedation,	Q5.85.30			
Diagnostic qualifier codes				
- '	01.00.51			
- status: post-procedure, - diagnosis uncertain,	Q1.90.51 Q1.90.67			
- status: post heart transplant, - status: post heart & lung(s) transplant,				Status post transplant. Heart
- status: post lung(s) transplant, - status: post lung(s) transplant,	Q1.91.80 Q1.91.81			Status post transplant, Heart and lung
	Q1.91.80 Q1.91.81 Q1.91.82			Status post transplant, Heart and lung Status post transplant, Lung
Codes for operations and interventions	Q1.91.81			
Medical therapy for cardiovascular disease,	Q1.91.81 Q1.91.82 17.00.01			
Medical therapy for cardiovascular disease, Medical therapy for endocarditis,	Q1.91.81 Q1.91.82			
Medical therapy for cardiovascular disease, Medical therapy for endocarditis, Cardiopulmonary bypass used during procedure, Cardiopulmonary bypass not used during procedure,	Q1.91.81 Q1.91.82 17.00.01 17.10.02 12.00.90 12.00.91			
Medical therapy for cardiovascular disease, Medical therapy for endocarditis, Cardiopulmonary bypass used during procedure,	Q1.91.81 Q1.91.82 17.00.01 17.10.02 12.00.90 12.00.91 12.43.00 15.43.06			Status post transplant, Lung Reoperation during this admission (unplanned reoperation)
Medical therapy for cardiovascular disease, Medical therapy for endocarditis, Cardiopulmonary bypass used during procedure, Cardiopulmonary bypass not used during procedure, Reoperation, Unplamed reoperation during current admission, Cardiopulmonary bypass for non-cardiac lesion,	Q1.91.81 Q1.91.82 17.00.01 17.10.02 12.00.90 12.00.91 12.43.00 15.43.06 12.00.92			Status post transplant, Lung Reoperation during this admission (urplamed reoperation) Bypass for non-cardiac lesion
Medical therapy for cardiovascular disease, Medical therapy for endocarditis, Cardiopulmonary bypass used during procedure, Cardiopulmonary bypass rot used during procedure, Reoperation, Urplamed reoperation during current admission, Cardiopulmonary bypass for non-cardiac lesion, Thoracoscopic approach (VATS), Minimally invasive procedure,	17.00.01 17.10.02 12.00.90 12.00.91 12.43.00 12.00.92 12.43.00 12.43.06 12.40.06 12.40.13			Status post transplant, Lung Reoperation during this admission (unplanned reoperation) Bysass for non-cardiac lesion VATS (video assisted thoracoscopic surgery) Minimally finastive procedure
Medical therapy for cardionascular disease, Medical therapy for endocarditis, Cardioputmonary bypass sued during procedure, Cardioputmonary bypass are used during procedure, Reoperation, Unplanned reoperation during current admission, Cardioputmonary bypass for non-cardiac lesion, Thoracoscopic approach (VATS),	17.00.01 17.10.02 12.00.90 12.00.91 12.43.00 12.00.92 12.00.92 12.00.92 12.40.06			Status post transplant, Lung Reoperation during this admission (urplamed reoperation) Bypass for non-cardiac testion VATS video assisted thoracoscopic surgery)
Medical therapy for cardiovascular disease, Medical therapy for endocarditis, Cardiopulmonary bypass used during procedure, Cardiopulmonary bypass not used during procedure, Reoperation, Unplamed reoperation during current admission, Cardiopulmonary bypass for non-cardiac lesion, Thoracoscopic approach (VATS), Mirlimally invasive procedure, Robotic surgical approach, Median stemotomy: redo x 1-3, Median stemotomy: redo x 2 or more,	01.91.81 01.91.82 17.00.01 17.10.02 12.00.91 12.43.00 15.43.06 12.40.09 12.40.05 12.40.15 12.40.15 12.40.29			Status post transplant, Lung Reoperation during this admission (urplamed reoperation) Bypass for non-cardiac tesion VATS video assisted thoracoscopic surgery) Minimally invasive procedure Minimally invasive procedure
Medical therapy for cardiovascular disease, Medical therapy for endocarditis, Cardiopulmonary bypass used during procedure, Cardiopulmonary bypass not used during procedure, Reoperation, Unplamed reoperation during current admission, Cardiopulmonary bypass for non-cardiac lesion, Thoracoscopic approach (VATS), Minimally invasive procedure, Rebotic surgical approach, Median stemotomy: redo x 1-3, Median stemotomy: redo x 4 or more, Thoracotomy:	01.91.81 01.91.82 17.00.01 17.10.02 12.00.90 12.00.91 12.43.00 15.43.00 12.40.09 12.40.03 12.40.13 12.40.29 12.40.20 12.40.30 12.40.30 12.40.00 12.40.10			Status post transplant, Lung Reoperation during this admission (unplanned reoperation) Bypass for non-cardiac lesion VATS (video assisted horacoscopic surgery) Minimally invasive procedure Minimally invasive procedure Thoracotomy, Other Thoracotomy, Other
Medical therapy for cardiovascular disease, Medical therapy for endocardilis, Cardiopulmonary bypass sued during procedure, Cardiopulmonary bypass not used during procedure, Reoperation, Urplamed reoperation during current admission, Cardiopulmonary bypass so for non-cardiac lesion, Thoracoscopic approach (VATS), Minimally invasive procedure, Reobofic surgical approach, Median stemotomy: redo x 1-3, Median stemotomy: redo x 4 or more, Thoracotomy: redo Thoracotomy: redo Cardiac incision,	01.91.81 01.91.82 17.00.01 17.10.02 12.00.90 12.00.91 12.43.00 12.00.92 12.40.00 12.40.13 12.40.15 12.40.29 12.40.30 12.40.30			Status post transplant, Lung Reoperation during this admission (unplanned reoperation) Bypass for non-cardiac lesion VATS yideo assisted thoracoscopic surgery) Minimally invasive procedure Minimally invasive procedure Thoracotomy, Other
Medical therapy for cardiovascular disease, Medical therapy for endocarditis, Cardiopulmonary bypass used during procedure, Cardiopulmonary bypass not used during procedure, Reoperation, Unplamed reoperation during current admission, Cardiopulmonary bypass for non-cardiac lesion, Thoracoscopic approach (VATS), Minimally invasive procedure, Rebotic surgical approach, Median stemotomy: redo x 1-3, Median stemotomy: redo x 4 or more, Thoracotomy:	01.91.81 01.91.82 17.00.01 17.10.02 12.00.90 12.00.90 12.00.91 12.43.00 12.40.05 12.40.15 12.40.15 12.40.29 12.40.00 12.40.10 12.40.10 12.40.10			Status post transplant, Lung Reoperation during this admission (unplanned reoperation) Bypass for non-cardiac lesion VATS (video assisted horacoscopic surgery) Minimally invasive procedure Minimally invasive procedure Thoracotomy, Other Thoracotomy, Other
Medical therapy for cardiovascular disease, Medical therapy for endocarditis, Cardiopulmonary bypass used during procedure, Cardiopulmonary bypass rot used during procedure, Reoperation, Umpanned reoperation during current admission, Cardiopulmonary bypass for non-cardiac lesion, Thoracoscopic approach (VATS), Minimally invasive procedure, Rebotic surgical approach, Median stemotomy; redo x 1-3, Median stemotomy; redo x 4 or more, Thoracotomy;	01.91.81 01.91.82 17.00.01 17.10.02 12.00.90 12.00.91 12.43.00 15.43.00 12.40.09 12.40.03 12.40.03 12.40.03 12.40.00 12.40.			Status post transplant, Lung Reoperation during this admission (unplanned reoperation) Bypass for non-cardiac lesion VATS (video assisted horacoscopic surgery) Minimally invasive procedure Minimally invasive procedure Thoracotomy, Other Thoracotomy, Other
Medical therapy for cardiovascular disease, Medical therapy for endiovascular disease, Medical therapy for endiovascular disease, Medical therapy for endiovascular disease, Cardiopulmonary bypass not seed during procedure, Reoperation, Umplamed reoperation during current admission, Cardiopulmonary bypass for non-eardiac lesion, Thoracoscopic approach (VATS), Minimally invasive procedure, Robotic surgical approach, Medican stemotomy: redo x 1-3, Medican stemotomy: redo x 1-3, Medican stemotomy: redo x 4 or more, Thoracotomy, Thoracotomy: redo, Cardiac incision, - transatrial approach, - transatrial approach, - transatrial approach, - transatrial approach, - Great vein procedures	01.91.81 01.91.82 17.00.01 17.10.02 12.00.90 12.00.91 12.43.00 15.43.06 12.00.92 12.40.08 12.40.13 12.40.15 12.40.29 12.40.30 12.40.16 12.40.90 12.40.16 12.40.90 12.40.			Status post transplant, Lung Reoperation during this admission (unplanned reoperation) Bypass for non-cardiac lesion VATS (video assisted thoracocopic surgery) Minimally invasive procedure Minimally invasive procedure Thoracolomy, Other Thoracolomy, Other Cardiotomy, Other
Medical therapy for cardiovascular disease, Medical therapy for endocardilis, Cardiopulmorary bypass sued during procedure, Cardiopulmorary bypass not seed during procedure, Reoperation, Urplamed reoperation during current admission, Cardiopulmorary bypass for son-cardiac lesion, Thoracoscopic approach (ATS), Mirimally invasive procedure, Robotic surgical approach, Medican stemotiony; redo x 1 or more, Thoracoscomy; Thoracotomy; redo, X or more, Thoracotomy; Thoracotom	01.91.81 01.91.82 17.00.01 17.10.02 12.00.90 12.00.91 12.43.00 15.43.06 12.00.92 12.40.13 12.40.15 12.40.29 12.40.30 12.40.10 12.40.			Status post transplant, Lung Reoperation during this admission (unplanned reoperation) Bypass for non-cardiac lesion VATS yideo assisted thoracoscopic surgery) Minimally invasive procedure Minimally invasive procedure Thoracotomy, Other Cardiacotomy, Other Cardiacoprocedure, Other TAPVC repair
Medical therapy for cardiovascular disease, Medical therapy for endocarditis, Cardioputnonary bypass sued during procedure, Cardioputnonary bypass rot used during procedure, Reoperation, Umplamed reoperation during current admission, Cardioputnonary bypass for non-cardiac lesion, Thonacoscopic approach (NATS), Minimaly invasive procedure, Reobelic surgical approach, Median stemotomy: redo ox 1-3, Median stemotomy: redo v. 1-3, Median stemotomy: redo, Cardiac incision, - transatiral approach, - transatiral approach, Great vein procedures Pulmonary vein procedures	01.91.81 Q1.91.82 17.00.01 177.10.02 12.00.90 12.00.91 12.43.00 15.43.00 12.00.92 12.40.03 12.40.13 12.40.15 12.40.29 12.40.30 12.40.10 12.40.90 12.40.90 12.40.91 12.40.91			Status post transplant, Lung Reoperation during this admission (urplanned reoperation) Bypass for non-cardiac lesion VATS video assisted thoracoscopic surgery) Minimally invasive procedure Minimally invasive procedure Thoracolomy, Other Toracolomy, Other Cardiotomy, Other Cardiac procedure, Other
Medical therapy for cardiovascular disease, Medical therapy for endocarditis, Cardioputhonary bypass sued during procedure, Cardioputhonary bypass rot used during procedure, Reoperation, Unplanned reoperation during current admission, Cardioputhonary bypass for non-cardiac lesion, Thonacoscopic approach (NATS), Minimally invasive procedure, Robotic surgical approach, Median stemotomy: redo x 1-3, Median stemotomy: redo x 4 or more, Thonacotomy, Thonacotomy, Thonacotomy, Thonacotomy: delo x 4 or more, Thonacotomy, Tedo, Cardiac incision, - transartial approach, - transartial approach, Great vein procedures Pulmonary vein procedure, Totally anomalous pulmonary venous connection repair, Partially anomalous pulmonary venous connection repair, Scimitar syndrome (partially anomalous pulmonary venous connection) repair,	01.91.81 Q1.91.82 17.00.01 17.10.02 12.00.90 12.00.91 12.43.00 15.43.00 12.40.03 12.40.03 12.40.13 12.40.29 12.40.30 12.40.10 12.40.99 12.40.10 12.40.			Status post transplant, Lung Reoperation during this admission (urplanned reoperation) Bynass for non-cardiac lesion VATS video assisted thoracoscopic surgery) Minimally invasive procedure Minimally invasive procedure Thoracotomy, Other Thoracotomy, Other Cardiotomy, Other Cardiotomy, Other Cardiac procedure, Other TAPVC repair PAPVC, Scimitar, Repair PAPVC, Scimitar, Repair PAPVC, Scimitar, Repair
Medical therapy for cardiovascular disease, Medical therapy for endocarditis, Cardioputnonary bypass sued during procedure, Cardioputnonary bypass rot used during procedure, Reoperation, Unplanned reoperation during current admission, Cardioputnonary bypass for non-cardiac lesion, Thonacoscopic approach (NATS), Minimally invasive procedure, Robotic surgical approach, Median stemotomy: redo x 1-3, Median stemotomy: redo x 4 or more, Thonacotomy, Thonacotomy, Thonacotomy, - transitrial approach, - transitri	01.91.81 Q1.91.82 17.00.01 17.10.02 12.00.90 12.00.91 12.43.00 15.43.00 12.40.05 12.40.13 12.40.15 12.40.29 12.40.30 12.40.10 12.40.90 12.40.10 12.40.10 12.40.90 12.40.10 12.40.90 12.40.			Status post transplant, Lung Reoperation during this admission (urplanned reoperation) Bypass for non-cardiac lesion VATS video assisted thoracoscopic surgery) Minimally invasive procedure Minimally invasive procedure Thoracotomy, Other Cardiacotomy, Other Cardiacotomy, Other Cardiacotomy, Other TAPVC repair PAPVC sepair PAPVC spair PAPVC spair

Pulmonary vein stenosis repair, Pulmonary venous pathway procedure (post Senning-Mustard),	12.00.03 12.29.52	Pulmonary venous stenosis repair Cardiac procedure, Other
Systemic vein procedure,	12.00.30	Cardiac procedure. Other
Superior caval vein (SVC) procedure, Inlerior caval vein (IVC) procedure,	12.00.39 12.00.42	Cardiac procedure, Other Cardiac procedure, Other
Anomalous systemic venous connection repair, Systemic venous stenosis repair,	12.00.81 12.00.83	Anomalous systemic venous connection repair Systemic venous stenosis repair
Systemic venous pathway procedure (post Senning-Mustard), Coronary sinus procedure,	12.00.29 12.00.50	Cardiac procedure, Other Cardiac procedure, Other
Atrial Procedures		
Right atrial procedure,	12.01.60	Cardiac procedure, Other
Left atrial procedure, Cor triatriatum (divided left atrium) repair,	12.01.30 12.01.31	Cardiac procedure, Other Cor triatriatum repair
Patent foramen ovale (PFO) direct closure, Interatrial communication closure, Atrial sepatal defect (ASD) secundum closure,	12.01.53 12.01.00 12.01.01	PFC, primary closure ASD repair ASD repair
Alma septal defect (ASD) secundum closure with direct suture, Alrial septal defect (ASD) secundum closure with direct suture, Alrial septal defect (ASD) secundum closure with patch,	12.01.02 12.01.03	ASD repair, Primary closure ASD repair, Patch
Sinus venosus defect (ASD) securion dosav with parot, Sinus venosus defect (ASD) closure, Intertrial communication closure; partial,	12.01.10 12.01.08	ASD partial closure
Coronary sinus interatrial communication (ASD) repair, Atrial fenestration closure,	12.00.55 12.30.41	ASD repair Atrial fenestration closure
Interatrial communication creation-enlargement, Atrial septectomy: closed (Blalock Hanlon),	12.01.90 12.01.42	ASD creation-enlargement ASD creation-enlargement
Atrial septectomy, Fenestration of atrial septum,	12.01.43 12.30.20	ASD creation-enlargement Atrial septal fenestration
Atrial septation procedure, Atrial baffle procedure,	12.01.22 12.01.57	ASD, Common atrium (single atrium), Septation Atrial baffle procedure (non-Mustard, non-Senning)
Interatrial communication left open,	12.01.80	
Atrioventricuolar valvar & atrioventricular septal defect procedures	40.00.04	Outline according Other
Atrioventricular valvar repair, Tricuspid valvar procedure,	12.90.01 12.02.00 12.02.04	Cardiac procedure, Other Valve surgery, Other, Tricuspid Valve surgery. Other. Tricuspid
Tricuspid valvar amuloplasty, Tricuspid leaflet (valvoplasty) procedure, Tricuspid valvar replacement,	12.02.04 12.02.02 12.02.11	Valwo sargery, Union, Tricuspid Valwolplasty, Tricuspid Valwe replacement, Tricuspid (TVR)
Tricuspid valve repair converted to tricuspid valvar replacement,	12.02.83 12.02.70	Valvuloplasty converted to valve replacement in the same operation, Tricuspid Valve closure, Tricuspid (exclusion, univentricular approach)
Tricuspid vahar closure, Tricuspid vahectomy, Ebslein's malformation of tricuspid vahe repair,	12.02.22	Valve excision, Tricuspid (excusion, universinicular approach) Valve excision, Tricuspid (without replacement) Ebstein's repair
Essients maiormaion oi tricuspio vaive repair, Mitral valvar procedure,	12.02.09	Valve surgery, Other, Mitral
Mitral valvar annuloplasty,	12.03.04 12.03.03	Valve surgery, Other, Mitral Valvuloplasty, Mitral
Mitral leaflet (valvoplasty) procedure, Mitral valvotory, Mitral valvar replacement,	12.03.01 12.03.11	Valve surgery, Other, Mitral Valve replacement, Mitral (MVR)
Milital valve repair converted to milital valvar replacement, Suora-milital valvar LA-rino excision.	12.03.84 12.01.32	Valvuloplasty converted to valve replacement in the same operation, Mitral Mitral stenosis, Supravalvar mitral ring repair
Supra-mitral valvar LA-ring excision, Mitral subvalvar apparatus procedure,	12.03.19	Valve surgery, Other, Mitral
Atrioventricular valvar procedure in double inlet ventricle,	12.46.00	Cardiac procedure, Other
Atrioventricular septal defect procedure, Atrioventricular septal defect (AVSD); partial (primum ASD) repair,	12.04.00 12.04.01	AVC (AVSD) repair AVC (AVSD) repair, Partial (Incomplete) (PAVSD)
Atriovertricular septal defect (AVSD): complete (common valve orifice) repair, Atriovertricular septal defect (AVSD): 'intermediate' repair,	12.05.01 12.05.10	AVC (AVSD) repair, Complete (CAVSD) AVC (AVSD) repair, Intermediate (Transitional)
Alrioventricular septial delect (AVSD): partial with isolated ventricular component (VSD) repair, Common atrioventricular valvar leaflet (valvoplasty) procedure,	12.04.09 12.48.01	VSD repair Valvuloplasty, Common atrioventricular valve
Atrioventricular septal defect (AVSD): right atrioventricular valvar procedure, Atrioventricular septal defect (AVSD): left atrioventricular valvar procedure,	12.04.20 12.04.40	Valvuloplasty, Tricuspid Valvuloplasty, Mitral
Atrioventricular septal defect (AVSD): left atrioventricular valvar replacement, Common atrioventricular valve repair converted to atrioventricular valvar replacement,	12.04.45 12.04.33	Valve replacement, Mitral (MVR) atrioventricular valve
Common atrioventricular valve replacement,	12.04.18	Valve replacement, Common atrioventricular valve
Atrioventricular septal defect (AVSD); suturing together superior + interior bridging leaflets to left ventricular side of septum ('cleft').	12.48.02	Valvulopiasty, Mitrai
Abrioventricular septal defect (AVSD): suburing together superior + inferior bridging leaflets to left ventricular side of septum (cleft), Abrioventricular septal defect (AVSD) & Tetralogy of Failor repair,	12.48.02 12.05.11	Valvuloplasty, Mitral TOF- AVC (AVSD) repair
	12.05.11	TOF- AVC (AVSD) repair
Atrioventricular septal defect (AVSD) & Tetralogy of Fallot repair,		TOF- AVC (AVSD) repair Cardiac procedure, Other DCRV repair
Altrioventricular septal defect (AVSD) & Tetralogy of Fallot repair, Ventricular and ventricular septum procedures Flight ventricular procedure,	12.05.11 12.06.26	TOF- AVC (AVSD) repair Cardiac procedure, Other DCRV repair Aneuryem, Ventricular, Right, Repair RVOT procedure
Atrioventricular septal defect (AVSD) & Tetralogy of Fallot repair, Ventricular and ventricular septum procedures Flight ventricular procedure, Double chambered right ventricle repair, Flight ventricular annuym repair,	12.05.11 12.06.26 12.06.35 12.06.38	TOF- AVC (AVSD) repair Cardiac procedure, Other DCRV repair Aneurysm, Ventricular, Right, Repair
Atrioventricular septal defect (AVSD) & Tetralogy of Fallot repair, Ventricular and ventricular septum procedures Flight ventricular procedure, Double chambered right ventricle repair, Flight ventricular aneusym repair, Flight ventricular outflow tract procedure, Flight ventricular outflow tract procedure, Sichputmorary obstruction relief, Sichputmorary obstruction relief, 1.5 ventricle repair: superior cavoputmorary (Glern) anastomosis + right ventricular outflow tract reconstruction,	12.05.11 12.06.26 12.06.35 12.06.03 12.06.00 12.06.41 12.08.21 12.06.19	TOF- AVC (AVSD) repair Cardiac procedure, Other DCRV repair Aneurysm, Ventricular, Right, Repair RVOT procedure RVOT procedure RVOT procedure 1 1/2 ventricular repair
Atrioventricular septal defect (AVSD) & Tetralogy of Fallot repair, Ventricular and ventricular septum procedures Flight ventricular procedure, Double chambered right ventricle repair, Flight ventricular aneurysm repair, Flight ventricular outflow tract procedure, Flight ventricular outflow tract obstruction relief, Subputmorary obstruction relief, 1.5 ventricle repair superior cavopulmonary (Glern) anastomosis + right ventricular outflow tract reconstruction, Left ventricular procedure, Left ventricular aneurysm repair,	12.05.11 12.05.26 12.05.35 12.05.38 12.05.00 12.05.41 12.02.21 12.06.19 12.07.26	TOF- AVC (AVSD) repair Cardiac procedure, Other DCRV repair Aneurysm, Ventricular, Right, Repair RVOT procedure RVOT procedure RVOT procedure 1 1/2 ventricular repair Cardiac procedure, Other Aneurysm, Ventricular, Left, Repair
Atrioventricular septal defect (AVSD) & Tetralogy of Fallot repair, Ventricular and ventricular septum procedures Flight ventricular procedure, Double chambered right ventricle repair, Flight ventricular aneurysm repair, Flight ventricular outflow tract procedure, Flight ventricular outflow tract procedure, Flight ventricular outflow tract behavior neilef, Subputmonary obstruction relief, 1.5 ventricular procedure, Left ventricular procedure, Left ventricular aneurysm repair, Partal left ventricular outflow tract procedure, Left ventricular outflow tract procedure,	12.05.11 12.05.26 12.05.35 12.05.38 12.05.00 12.06.41 12.08.21 12.06.19 12.07.26 12.07.37 12.07.38 12.07.38	TOF- AVC (AVSD) repair Cardiac procedure, Other DCRV repair Aneurysm, Ventricular, Right, Repair RVOT procedure RVOT procedure RVOT procedure 1 1/2 ventricular repair Cardiac procedure, Other Aneurysm, Ventricular, Left, Repair Parial left ventricular comy (LV volume reduction) (Batista) Cardiac procedure, Other
Atrioventricular septal defect (AVSD) & Tetralogy of Fallot repair, Ventricular and ventricular septum procedures Plight ventricular procedure, Double chambered right ventricle repair, Plight ventricular aneurysm repair, Plight ventricular aneurysm repair, Plight ventricular outflow tract procedure, Plight ventricular outflow tract procedure, Plight ventricular outflow tract beharchen relief, Subputmonary obstruction relief, 1.5 ventricular procedure, Left ventricular aneurysm repair, Parali left ventricular outflow tract procedure, Left ventricular outflow tract proc	12.05.11 12.06.26 12.06.35 12.06.38 12.06.00 12.06.41 12.08.21 12.06.19 12.07.37 12.07.38 12.07.38 12.07.00 12.07.11	TOF- AVC (AVSD) repair Cardiac procedure, Other DCRV repair Aneurysm, Ventricular, Right, Repair RVOT procedure RVOT procedure RVOT procedure RVOT procedure 1 1/2 ventricular repair Cardiac procedure, Other Aneurysm, Ventricular, Left, Repair Partial left ventricular comy (LV volume reduction) (Batista) Cardiac procedure, Other Aortic stenosis, Subvalvar, Repair
Atrioventricular septal defect (AVSD) & Tetralogy of Fallot repair, Ventricular and ventricular septum procedures Right ventricular procedure, Double chambered right ventricle repair, Right ventricular aneurysm repair, Right ventricular aneurysm repair, Right ventricular outflow tract procedure, Right ventricular outflow tract procedure, Subputmonary obstruction relief, Subputmonary obstruction relief, Subputmonary obstruction relief, Let ventricular procedure, Let ventricular procedure, Let ventricular aneurysm repair, Partial let ventricular aneurysm repair, Partial let ventricular outflow tract procedure, Subanoric obstruction relief, Subanoric obstruction relief, Subanoric forbrunuscular shelf resection,	12.05.11 12.06.26 12.06.35 12.06.38 12.06.00 12.06.41 12.08.21 12.06.19 12.07.26 12.07.37 12.07.38 12.07.00 12.07.13 12.07.13 12.07.11 12.08.22	TOF- AVC (AVSD) repair Cardiac procedure, Other DCRV repair Aneurysm. Ventricular, Pilght, Repair RVOT procedure RVOT procedure RVOT procedure 11/2 ventricular repair Cardiac procedure, Other Aneurysm. Ventricular. Left. Repair Partial left ventriculectomy (LV volume reduction) (Batista) Cardiac procedure, Other Aortic stenosis, Subvalvar, Repair
Atrioventricular septal defect (AVSD) & Tetralogy of Fallot repair, Ventricular and ventricular septum procedures Right ventricular procedure, Double chambered right vertricle repair, Right ventricular aneurysm repair, Right ventricular aneurysm repair, Right ventricular outflow tract procedure, Right ventricular outflow tract procedure, Right ventricular outflow tract obstruction relief, Subputmonary obstruction relief, 1.5 ventricler appliar superior caxoputmonary (Glern) anastomosis + right ventricular outflow tract reconstruction, Left ventricular aneurysm repair, Partial left ventricular aneurysm repair, Partial left ventricular outflow tract obstruction (Batista), Left ventricular outflow tract obstruction relief, Left ventricular outflow tract obstruction relief, Left ventricular outflow tract obstruction relief, Subanoric obstruction relief, Subanoric bostruction shelf resection, Left ventricular outflow tract obstruction relief complex (Konno etc), Left ventricular outflow tract obstruction relief complex (Konno etc),	12.05.11 12.06.26 12.06.35 12.06.38 12.06.00 12.06.41 12.08.21 12.06.19 12.07.37 12.07.37 12.07.38 12.07.00 12.07.13 12.07.11 12.08.22 12.07.11 12.08.22	TOF- AVC (AVSD) repair Cardiac procedure, Other DCRV repair Aneurysm. Ventricular, Right, Repair RVOT procedure RVOT procedure RVOT procedure RVOT procedure 11/2 ventricular repair 11/2 ventricular repair Cardiac procedure, Other Aneurysm. Ventricular, Left, Repair Partial elter ventricularchomy (LV volume reduction) (Batista) Cardiac procedure, Other Anoric sterosis, Subvalvar, Repair Aortic sterosis, Subvalvar, Repair Aortic sterosis, Subvalvar, Repair Aortic sterosis, Subvalvar, Repair Aortic sterosis, Subvalvar, Repair Konno procedure
Atrioventricular septal defect (AVSD) & Tetralogy of Fallot repair, Ventricular and ventricular septum procedures Flight ventricular procedure, Double chambered right ventricle repair, Right ventricular aneurysm repair, Right ventricular aneurysm repair, Right ventricular outflow tract procedure, Right ventricular outflow tract obstruction relief, Subputmonary obstruction relief, 1.5 ventricler appris superior caxoputmonary (Glern) anastomosis + right ventricular outflow tract reconstruction, Left ventricular aneurysm repair, Partial left ventricular aneurysm repair, Partial left ventricular outflow tract obstruction relief, Subanoric obstruction relief, Subanoric brostruction shelf resection, Left ventricular outflow tract obstruction relief complex (Korno etc), Ventricular septal defect (VSD) closure, Ventricular septal defect (VSD) closure by direct suture,	12.05.11 12.06.26 12.06.35 12.06.38 12.06.00 12.06.41 12.08.21 12.06.19 12.07.26 12.07.37 12.07.38 12.07.00 12.07.11 12.08.22 12.07.11 12.08.22 12.07.11 12.08.22 12.07.11	TOF- AVC (AVSD) repair Cardiac procedure, Other DCRV repair Aneurysm. Ventricular, Right, Repair RVOT procedure RVOT procedure RVOT procedure RVOT procedure 11/2 ventricular repair 11/2 ventricular repair Cardiac procedure, Other Anseurysm. Ventricular Left, Repair Partial elter ventricular (LV volume reduction) (Balista) Cardiac procedure, Other Aortic stenosis, Subvabar, Repair Aortic stenosis, Subvabar, Repair Aortic stenosis, Subvabar, Repair Aortic stenosis, Subvabar, Repair Korno procedure VSD repair VSD repair VSD repair, Primary closure
Atrioventricular septal defect (AVSD) & Tetralogy of Fallot repair, Ventricular and ventricular septum procedures Flight ventricular procedure, Double chambered right vertricle repair, Right ventricular aneusym repair, Right ventricular aneusym repair, Right ventricular outflow tract procedure, Right ventricular outflow tract bestuction relief, Subputmonary obstruction relief, 1.5 ventricle repairs superior cavoputmonary (Glern) anastomosis + right ventricular outflow tract reconstruction, Left ventricular aneusym repair, Partial left ventricular aneusym repair, Partial left ventricular outflow tract optome reduction (Baltista), Left ventricular outflow tract optome reduction relief, Left ventricular outflow tract optome reduction relief, Left ventricular outflow tract outflow tract myelotomy-myotomy, Subaortic fibromuscular shell resection, Left ventricular outflow tract velotomy-myotomy, Subaortic fibromuscular shell resection, Left ventricular septial defect (VSD) closure, Ventricular septial defect (VSD) closure using patch, Closure of multiple ventricular septial defect (VSD) s,	12.05.11 12.05.26 12.06.35 12.06.35 12.06.00 12.06.41 12.06.21 12.06.19 12.07.37 12.07.38 12.07.00 12.07.11 12.08.22 12.07.11 12.08.22 12.07.12 12.08.01 12.08.01 12.08.03 12.08.03	TOF- AVC (AVSD) repair Cardiac procedure, Other DCRV repair Aneurysm., Ventricular, Right, Repair RVOT procedure RVOT procedure RVOT procedure RVOT procedure 11-2 ventricular repair 1-2 ventricular repair Cardiac procedure, Other Aneurysm., Ventricular, Left, Repair Partial left ventricularchory (L V volume reduction) (Batista) Cardiac procedure, Other Andric stensois, Subvalvar, Repair Andric stensois, Subvalvar, Repair Andric stensois, Subvalvar, Repair Andric stensois, Subvalvar, Repair Korno procedure VSD repair VSD repair, Primary closure VSD repair, Patch VSD mpair, Patch VSD mpair, Patch VSD mpair perpair
Atrioventricular septal defect (AVSD) & Tetralogy of Fallot repair, Ventricular and ventricular septum procedures Flight ventricular procedure, Double chambered right vertricle repair, Right ventricular aneusym repair, Right ventricular aneusym repair, Right ventricular outflow tract procedure, Right ventricular outflow tract procedure, Subputmonary obstruction relief, 1.5 ventricle repairs asperior cavoputmonary (Glern) anastomosis + right ventricular outflow tract reconstruction, Left ventricular aneusym repair, Partial left ventricular outflow tract optomer eduction (Balista), Left ventricular outflow tract procedure, Left ventricular outflow tract procedure, Left ventricular outflow tract procedure, Left ventricular outflow tract outflow tract procedure, Left ventricular outflow tract outflow tract myelcomy-myelomy, Subaortic fibromuscular shelf resection, Left ventricular septal defect (VSD) closure, Ventricular septal defect (VSD) closure, Ventricular septal defect (VSD) closure using patch, Closure of multiple ventricular septal defect (VSD) elargement, Ventricular septal defect (VSD) closure using patch, Closure of multiple ventricular septal defect (VSD) elargement, Ventricular septal defect (VSD) elargement, Ventricular septal defect (VSD) elargement,	12.05.11 12.06.26 12.06.35 12.06.35 12.06.38 12.06.00 12.06.41 12.08.21 12.08.21 12.08.21 12.07.37 12.07.37 12.07.13 12.07.11 12.07.12 12.07.11 12.08.00 12.08.00 12.08.00 12.08.00 12.08.00 12.08.00 12.08.00 12.08.00 12.08.00 12.08.00 12.08.00 12.08.00 12.08.00 12.08.00 12.08.00 12.08.00 12.08.00	Cardiac procedure, Other DCRV repair Aneurysm., Ventricular, Right, Repair RVOT procedure 11/2 ventricular repair Cardiac procedure, Other Aneurysm., Ventricular, Left, Repair Partial left ventriculectomy (L Volume reduction) (Batista) Cardiac procedure, Other Andris stensois, Subvalvar, Repair Aortic stensois
Atrioventricular septal defect (AVSD) & Tetralogy of Fallot repair, Ventricular and ventricular septum procedures Flight ventricular procedure, Double chambered right vertricle repair, Right ventricular anauysm repair, Right ventricular anauysm repair, Right ventricular outflow tract procedure, Right ventricular outflow tract procedure, Right ventricular outflow tract procedure, Subputmonary obstruction relief, 1.5 ventricler appris superior cavopulmonary (Glern) anastomosis + right ventricular outflow tract reconstruction, Left ventricular procedure, Left ventricular outflow tract procedure, Left ventricular outflow tract procedure, Left ventricular outflow tract outflow tract procedure, Left ventricular outflow tract outflow tract outflow tract neglectiony-myotomy, Subaortic fibromuscular shell resection, Left ventricular septal defect (VSD) closure, Ventricular septal defect (VSD) closure using patch, Closure of multiple ventricular septal defect (VSD) platen, Open fenestration of ventricular septal defect (VSD) platen,	12.05.11 12.06.26 12.06.35 12.06.38 12.06.00 12.06.41 12.08.21 12.06.19 12.07.37 12.07.38 12.07.38 12.07.00 12.07.13 12.07.13 12.07.11 12.08.22 12.07.11 12.08.22 12.07.12 12.08.01 12.08.01 12.08.01 12.08.01 12.08.01 12.08.01 12.08.01 12.08.01 12.08.01 12.08.03 12.08.16 12.08.35	TOF- AVC (AVSD) repair Cardiac procedure, Other DCRV repair Aneurysm, Ventricular, Right, Repair RVOT procedure RVOT procedure RVOT procedure RVOT procedure 1 1/2 ventricular repair Cardiac procedure, Other Aneurysm, Ventricular, Left, Repair Partial left ventricular community (I volume reduction) (Batista) Cardiac procedure, Other Aoric stenosis, Subvalvar, Repair Konno procedure VSD repair, Primary closure VSD repair, Patch VSD multiple repair VSD repair, Patch VSD multiple repair
Atrioventricular septal defect (AVSD) & Tetralogy of Fallot repair, Ventricular and ventricular septum procedures Flight ventricular procedure, Double chambered fight ventricle repair, Right ventricular anaupsm repair, Right ventricular anaupsm repair, Right ventricular outflow tract procedure, Bight ventricular outflow tract procedure, Right ventricular outflow tract procedure, Subputmonary obstruction relief, 1.5 ventricular procedure, Left ventricular procedure, Left ventricular procedure, Left ventricular procedure, Left ventricular outflow tract outflow tract procedure, Left ventricular outflow tract outflow tract resection, Left ventricular outflow tract outflow tract obstruction relief, Subaortic Ribromuscular shelf resection, Left ventricular septal defect (VSD) closure, Ventricular septial defect (VSD) closure, Ventricular septial defect (VSD) closure in large patch, Closure of multiple ventricular septal defect (VSD) polar using patch, Ventricular septial defect (VSD) polar using patch, Ventricular septial defect (VSD) closure in large patch, Ventricular septial defect (VSD) closure in large patch, Ventricular septial defect (VSD) polar perspenent, Open lenestration of ventricular septal defect (VSD) patch, Ventricular-applial defect (VSD) polar perspenent, Open lenestration of ventricular septal defect (VSD) patch,	12.05.11 12.06.26 12.06.35 12.06.35 12.06.38 12.06.00 12.06.41 12.08.21 12.08.21 12.08.21 12.07.37 12.07.37 12.07.13 12.07.11 12.07.12 12.07.11 12.08.00 12.08.00 12.08.00 12.08.00 12.08.00 12.08.00 12.08.00 12.08.00 12.08.00 12.08.00 12.08.00 12.08.00 12.08.00 12.08.00 12.08.00 12.08.00 12.08.00	Cardiac procedure, Other DCRV repair Aneurysm., Ventricular, Right, Repair RVOT procedure 11/2 ventricular repair Cardiac procedure, Other Aneurysm., Ventricular, Left, Repair Partial left ventriculectomy (L Volume reduction) (Batista) Cardiac procedure, Other Andris stensois, Subvalvar, Repair Aortic stensois
Atrioventricular septal defect (AVSD) & Tetralogy of Fallot repair, Ventricular and ventricular septum procedures Plight ventricular procedure, Double chambered right ventricle repair, Plight ventricular aneurysm repair, Plight ventricular outflow tract procedure, Bight ventricular outflow tract procedure, Plight ventricular outflow tract betherdon relief, Subputmonary obstruction relief, 1.5 ventricular procedure, Left ventricular procedure, Left ventricular procedure, Left ventricular procedure, Left ventricular outflow tract obstruction relief. Subaortic obstruction relief. Subaortic Bromussudar shelf resection, Left ventricular outflow tract obstruction relief: complex (Konno etc), Ventricular septal defect (VSD) closure, Ventricular septal defect (VSD) closure using patch, Closure of multiple ventricular septal defect (VSD) patch, Ventricular septal defect (VSD) closure using patch, Closure of multiple ventricular septal defect (VSD) patch, Ventricular septal defect (VSD) prepair (valvoplasty), Ventricular septal defect (VSD) prepair (valvoplasty),	12.06.26 12.06.25 12.06.35 12.06.35 12.06.38 12.06.00 12.08.41 12.08.21 12.08.19 12.07.37 12.07.38 12.07.00 12.07.13 12.07.11 12.08.22 12.07.01 12.07.12 12.08.01 12.08.02 12.08.01 12.08.02 12.08.01 12.08.03 12.08.06 12.08.19	Cardiac procedure, Other DCRV repair Aneurysm., Ventricular, Right, Repair RVOT procedure 11/2 ventricular repair Cardiac procedure, Other Aneurysm., Ventricular, Left, Repair Partial left ventriculectomy (LV volume reduction) (Batista) Cardiac procedure, Other Anotic stenosis, Subvalvar, Repair Aortic stenosin, Subvalvar, Repair Aortic stenosin, Subvalvar, Repair Aortic stenosin, Subvalvar, Repair VSD repair, Primary closure VSD repair, Patch VSD repair, Fratch VSD restation / eriargement VSD creation / eriargement VSD creation / eriargement Ventricular septal fenestration Truncus Arteriosus repair Valvdoplasty, truncal valve
Atrioventricular septal defect (AVSD) & Tetralogy of Fallot repair, Ventricular and ventricular septum procedures Right ventricular procedure, Double chambered right ventricle repair, Right ventricular aneurysm repair, Right ventricular aneurysm repair, Right ventricular outflow tract procedure, Right ventricular outflow tract procedure, Right ventricular outflow tract betraction relief, Subputmonary obstruction relief, 1.5 ventricular procedure, Left ventricular procedure, Left ventricular aneurysm repair, Partial left ventricular outflow tract procedure, Left ventricular outflow tract obstruction relief, Left ventricular outflow tract obstruction relief, Left ventricular outflow tract obstruction relief, Subanoric obstruction relief, Subanoric fibromuscular shelf resection, Left ventricular septial defect (VSD) closure by direct sulture, Ventricular septial defect (VSD) closure by direct sulture, Ventricular septial defect (VSD) closure using patich, Closur of multiple ventricular septial defect (VSD) plater, Ventricular septial defect (VSD) closure spid defect (VSD) plater, Ventricular septial defect (VSD) plater, Vent	12.05.11 12.06.26 12.06.35 12.06.38 12.06.00 12.06.41 12.02.21 12.05.19 12.07.37 12.07.38 12.07.00 12.07.13 12.07.11 12.08.12 12.08.01 12.08.02 12.07.01 12.08.02 12.08.03 12.08.06 12.08.35 12.08.06 12.08.19	Cardiac procedure, Other DCRV repair Cardiac procedure, Other DCRV repair Aneurysm., Ventricular, Right, Repair RVOT procedure RVOT procedure RVOT procedure RVOT procedure 11/2 ventricular repair Cardiac procedure, Other Aneurysm., Ventricular, Left, Repair Partial left, ventriculectomy (LV volume reduction) (Batista) Cardiac procedure, Other Aortic stenzois, Subvalvar, Repair Aortic stenzois, Subvalvar, Repair Aortic stenzois, Subvalvar, Repair Aortic stenzois, Subvalvar, Repair Korno procedure VSD repair VSD repair, Primary closure VSD repair, Primary closure VSD repair, Patch VSD multiple repair VSD creation / enlargement VSD creation / enlargement VSD creation / enlargement VSD creation / enlargement Ventricular septal fenestration
Atrioventricular septal defect (AVSD) & Tetralogy of Fallot repair, Ventricular and ventricular septum procedures Piight ventricular procedure, Double chambered right ventricle repair, Right ventricular aneurysm repair, Right ventricular aneurysm repair, Right ventricular outflow tract procedure, Right ventricular outflow tract procedure, Right ventricular outflow tract procedure, Subputmonary obstruction relief, 1.5 ventricular procedure, Left ventricular procedure, Left ventricular procedure, Left ventricular aneurysm repair, Parali left ventricular outflow tract procedure, Subanoriic obstruction relief, Subanoriic obstruction relief, Subanoriic fibromuscular shelf resection, Left ventricular outflow tract obstruction relief: complex (Konno etc), Ventricular septial defect (VSD) closure by direct subure, Ventricular septial defect (VSD) closure by direct subure, Ventricular septial defect (VSD) closure using patich, Closure of multiple ventricular septial defect (VSD) soure using patich, Closure of multiple ventricular septial defect (VSD) plater, Ventricular septial defect (VSD) orbargement, Open fenestation of ventricular septial defect (VSD) plater, Ventricular septial defect (VSD) orbargement, Truncal valve replacement, Truncal valve replacement, Truncal valve replacement, Truncal valve replacement, Pulmonary valvar procedure,	12.05.11 12.06.26 12.06.35 12.06.38 12.06.00 12.06.41 12.08.21 12.06.19 12.07.37 12.07.38 12.07.00 12.07.13 12.07.11 12.08.22 12.07.11 12.08.22 12.07.12 12.08.01 12.08.01 12.08.03 12.08.03 12.08.03 12.08.03 12.08.06 12.08.19	Cardiac procedure, Other DCRV repair Cardiac procedure, Other DCRV repair Aneurysm., Ventricular, Right, Repair RVOT procedure RVOT procedure RVOT procedure RVOT procedure 11/2 ventricular repair Cardiac procedure, Other Aneurysm., Ventricular, Left, Repair Partial elter ventriculectomy (LV volume reduction) (Batista) Cardiac procedure, Other Andric sternosis, Subvalvar, Repair Aortic sternosis, Subvalvar, Repair Aortic sternosis, Subvalvar, Repair Aortic sternosis, Subvalvar, Repair Korno procedure VSD repair, Primary closure VSD repair, Primary closure VSD repair, Patch VSD multiple repair VSD creation of enlargement VSD creation enlargement
Atrioventricular septal defect (AVSD) & Tetralogy of Fallot repair, Ventricular and ventricular septum procedures Piight ventricular procedure, Double chambered right ventricle repair, Right ventricular aneurysm repair, Right ventricular aneurysm repair, Right ventricular outflow tract procedure, Lift ventricular procedure, Left ventricular procedure, Left ventricular procedure, Left ventricular outflow tract obstruction relief, Left ventricular outflow tract obstruction relief, Subanoriic obstruction relief, Subanoriic fibromuscular shelf resection, Left ventricular septal defect (VSD) closure by direct subure, Ventricular septal defect (VSD) closure by direct subure, Ventricular septal defect (VSD) closure using patch, Closure of multiple ventricular septal defect (VSD) source using patch, Closure of multiple ventricular septal defect (VSD) picture, Ventricular septal defect (VSD) closure spend outprocedure, Common anterial trunk (truncus) repair, Truncal valve cusple) repair (valvoplasty), Truncal valve replacement, Pulmonary valvar procedure, Pulmonary valvar procedure, Pulmonary valvactomy,	12.05.11 12.06.26 12.06.35 12.06.38 12.06.00 12.06.41 12.08.21 12.06.19 12.07.37 12.07.38 12.07.38 12.07.38 12.07.11 12.08.22 12.07.11 12.08.22 12.07.11 12.08.22 12.07.12 12.08.01 12.07.12 12.08.01 12.08.01 12.08.01 12.08.01 12.08.01 12.08.01 12.08.01 12.08.01 12.08.01 12.08.01 12.08.01 12.08.01 12.08.01 12.08.01 12.18.01 12.18.01 12.18.01 12.18.01 12.18.01 12.18.00 12.18.01 12.18.00 12.18.00 12.18.00 12.18.00 12.18.00 12.18.00 12.18.00 12.18.00 12.18.00 12.18.00 12.18.00 12.18.00 12.18.00 12.18.00 12.18.00 12.18.00 12.18.00	Cardiac procedure, Other DCRV repair Cardiac procedure, Other DCRV repair Aneurysm., Ventricular, Pilght, Repair RVOT procedure RVOT procedure RVOT procedure RVOT procedure 11/2 ventricular repair Cardiac procedure, Other Aneurysm., Ventricular, Left, Repair Partal left ventricular comy (LV volume reduction) (Batista) Cardiac procedure, Other Aneurysm., Ventricular, Left, Repair Partal left ventricular comy (LV volume reduction) (Batista) Cardiac procedure, Other Aortic stenosis, Subvalvar, Repair Komo procedure VSD repair VSD repair VSD repair, Primary closure VSD repair, Primary closure VSD repair, Petich VSD multiple repair VSD creation i retargement VSD creation, retarg
Atrioventricular septal defect (AVSD) & Tetralogy of Fallot repair, Ventricular and ventricular septum procedures Right ventricular procedure, Double chambered right ventricle repair, Right ventricular aneurysm repair, Right ventricular outflow tract procedure, Right ventricular outflow tract procedure, Right ventricular outflow tract procedure, Right ventricular outflow tract betarction relief, Subputmonary obstruction relief, 1.5 ventricular procedure, Left ventricular procedure, Left ventricular procedure, Left ventricular procedure, Left ventricular outflow tract obstruction (Batista), Lett ventricular outflow tract obstruction relief, Left ventricular outflow tract obstruction relief, Left ventricular outflow tract obstruction relief, Left ventricular outflow tract obstruction relief, Subanoriic obstruction relief, Subanoriic obstruction relief, Subanoriic obstruction relief, Ventricular septal defect (VSD) closure by direct sulture, Ventricular septial defect (VSD) closure, Ventricular septial defect (VSD) relargement (reation, Ventricular septial defect (VSD) relargement (reation, Ventricular septial defect (VSD) relargement Common anterial trurk (truncus) repair, Truncal valve cusple) repair (valvoplasty), Truncal valve cusple) repair (valvoplasty), Truncal valve repair converted to truncal valvar replacement, Pulmonary valvactomy,	12.05.11 12.06.26 12.06.35 12.06.38 12.06.00 12.06.41 12.08.21 12.06.19 12.07.26 12.07.37 12.07.38 12.07.00 12.07.11 12.08.22 12.07.01 12.07.12 12.08.01 12.07.12 12.08.01 12.18.01 12.18.01 12.18.01 12.18.02 12.18.02 12.18.02 12.18.02 12.18.02 12.18.02 12.18.02 12.18.02 12.18.15 12.18.15	Cardiac procedure, Other DCRV repair Cardiac procedure, Other DCRV repair Aneurysm., Ventricular, Flight, Repair RVOT procedure RVOT procedure RVOT procedure RVOT procedure 11/2 ventricular repair Cardiac procedure, Other Aneurysm., Ventricular, Left, Repair Partial left ventricular repair Cardiac procedure, Other Aneurysm., Ventricular, Left, Repair Partial left ventricular civil (LV volume reduction) (Balista) Cardiac procedure, Other Aoriic stenosis, Subvalvar, Repair Korno procedure VSD repair, Primary closure VSD repair, Primary closure VSD repair, Primary closure VSD repair, Primary closure VSD repair, Patch VSD multiple repair VSD creation / eriargement VSD repair, Putch oriver, Vsb repair Valvolopiasty, funcal valve Valve cupicoment, Turncal valve Valve surgery, Other, Pulmonic Valve closure, Semillurar Valve replacement, Pulmonic (EVR)
Atrioventricular septal defect (AVSD) & Tetralogy of Fallot repair, Ventricular and ventricular septum procedures Right ventricular procedure, Double chambered right ventricle repair, Right ventricular aneurysm repair, Right ventricular aneurysm repair, Right ventricular outflow tract procedure, Right ventricular aneurysm repair, Right ventricular superior cavopulmonary (Glenn) anastomosis + right ventricular outflow tract procedure, Lett ventricular procedure, Lett ventricular procedure, Lett ventricular aneurysm repair, Partial lett ventricular outflow tract procedure, Lett ventricular outflow tract procedure, Lett ventricular outflow tract obstruction (Batista), Let ventricular outflow tract procedure, Lett ventricular outflow tract obstruction relief, Lett ventricular outflow tract obstruction relief, Lett ventricular outflow tract obstruction relief, Subanoric obstruction relief, Subanoric fibromuscalar shelf resection, Left ventricular septal defect (VSD) closure by direct suture, Ventricular septal defect (VSD) closure by direct suture, Ventricular septal defect (VSD) closure by direct suture, Ventricular septal defect (VSD) closure using patich, Closur of multiple ventricular septal defect (VSD) patryment, Open inensation of ventricular septal defect (VSD) patryment, Open inensation of ventricular septal defect (VSD) patryment, Open inensation of ventricular septal defect (VSD) patryment, Truccal valve cusple) repair (valvoplasty), Truccal valve cusple) repair (valvoplasty), Truccal valve repair converted to truncal valvar replacement, Pulmonary valvar procedure, Pulmonary valvar replacement (rot conduit),	12.05.11 12.05.26 12.06.35 12.06.35 12.06.00 12.06.41 12.06.21 12.06.19 12.07.37 12.07.38 12.07.00 12.07.11 12.08.22 12.07.10 12.07.11 12.08.01 12.08.01 12.08.01 12.08.03 12.08.03 12.08.03 12.08.06 12.08.19 12.11.00 12.11.34 12.11.41 12.11.43 12.11.30 12.13.00 12.13.02 12.13.12	Cardiac procedure, Other DCRV repair Cardiac procedure, Other DCRV repair Aneurysm., Ventricular, Right, Repair RVOT procedure RVOT procedure RVOT procedure RVOT procedure 11/2 ventricular repair Cardiac procedure, Other Aneurysm., Ventricular, Left, Repair Partial left ventriculectomy (L Volume reduction) (Batista) Cardiac procedure, Other Andric stenosis, Subvabar, Repair Korno procedure VSD repair VSD repair, Primary closure VSD repair, Patch VSD repair, Petch VSD repair, Petch VSD repair, Petch VSD repair, orlangement VSD creation / enlargement
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Atrioventricular septal defect (AVSD) & Tetralogy of Fallot repair, Ventricular and ventricular septum procedures Pight ventricular procedure, Double chambered right ventricle repair, Right ventricular anauyam repair, Right ventricular anauyam repair, Right ventricular outflow tract procedure, Right ventricular outflow tract procedure, Right ventricular outflow tract procedure, Subputmonary obstruction relief, 1.5 ventricler appair, superior cavopulmonary (Glern) anastomosis + right ventricular outflow tract reconstruction, Left ventricular anauyam repair, Partial left ventricular outflow tract procedure, Left ventricular outflow tract obstruction relief, Left ventricular outflow tract procedure, Left ventricular outflow tract destruction relief, Left ventricular outflow tract destruction relief, Left ventricular outflow tract obstruction relief, Subanoric obstruction relief, Subanoric obstruction relief, Subanoric bromuscular shelf resection, Left ventricular septial defect (VSD) closure by direct suture, Ventricular septial defect (VSD) closure by direct suture, Ventricular septial defect (VSD) closure by direct suture, Ventricular septial defect (VSD) closure using patch, Closure of multiple ventricular septial defect (VSD) place using patch, Ventricular septial defect (VSD) place procedure, Ventricular septial defect (VSD) place procedure, Ventricular ventricular septial defect (VSD) place procedure, Ventricular ventricular ventricular septial defect (VSD) place procedure, Pulmonary valvar procedure, Pulmonary valvar procedure, Pulmonary valva replacement (not condid), Pulmonary valva replacement (sing homografi, Pulmonary valva replacement (sing homografi, Pulmonary valvar replacement (sing homografi, Pulmonary valvar profice of the pulmonary valvar replacement, Pulmonary valva band (PA band), Application of right & list pulmonary variar abands, Pulmonary valvar placement, Pulmonary valvar replacement (sing homografi,	12.05.11 12.06.26 12.06.35 12.06.38 12.06.00 12.06.41 12.08.21 12.06.19 12.07.26 12.07.37 12.07.13 12.07.10 12.07.11 12.08.22 12.07.10 12.07.11 12.08.22 12.07.12 12.08.01 12.07.12 12.08.01 12.08.01 12.08.01 12.08.01 12.08.01 12.08.01 12.08.01 12.08.01 12.08.01 12.08.01 12.08.01 12.08.01 12.08.01 12.08.01 12.08.01 12.08.01 12.08.01 12.08.02 12.08.03 12.08.08 12.08.08 12.08.19 12.11.34 12.11.34 12.11.34 12.11.34 12.11.31 12.11.32 12.13.12 12.13.12 12.13.12 12.13.12 12.13.15 12.13.22 12.13.15 12.14.02 12.14.03	Cardiac procedure, Other DCRV repair Cardiac procedure, Other DCRV repair Aneurysm., Ventricular, Right, Repair RVOT procedure RVOT procedure RVOT procedure RVOT procedure RVOT procedure 11/2 ventricular repair Cardiac procedure, Other Aneurysm., Ventricular, Left, Repair Partial elter ventriculactomy (LV volume reduction) (Batista) Cardiac procedure, Other Anotic sterosis, Subvalvar, Repair Korno procedure VSD repair VSD repair, Primary closure VSD repair, Primary closure VSD repair, Primary closure VSD repair, Petach VSD multiple repair VSD creation / enlargement VSD creation / enlargement VSD creation / enlargement VSD creation / enlargement VSD reation / enlargement VSD repair, Primoric (PVR) Valve explacement, Turnical valve Valve (palcement, Turnical valve Valve (palcement, Pulmonic Valve excision, Pulmonic (PVR) Valve replacement, Pulmonic (PVR) Valve placement, Pulmonic (PVR) Valve replacement, Pulmonic (PVR) Valve placement, Pulmonic (PVR) Valve replacement, Pulmonic (PVR)
Atrioventricular septal defect (AVSD) & Tetralogy of Fallot repair, Ventricular and ventricular septum procedures Pight ventricular procedure, Double chambered right ventricle repair, Right ventricular anauysm repair, Right ventricular anauysm repair, Right ventricular outflow tract procedure, Right ventricular outflow tract procedure, Right ventricular outflow tract procedure, Subputmonary obstruction relief, 1.5 ventricide repairs superior cavopulmonary (Glern) anastomosis + right ventricular outflow tract Partial let ventricular anauysm repair, Partial let ventricular anauysm repair, Partial let ventricular outflow tract procedure, Left ventricular outflow tract destruction relief, Subanoric obstruction relief, Subanoric obstruction relief, Subanoric bostruction relief, Ventricular septal defect (VSD) closure by direct suture, Ventricular septial defect (VSD) closure by direct suture, Ventricular septial defect (VSD) closure by direct suture, Ventricular septial defect (VSD) closure using patch, Closure of multiple ventricular septial defect (VSD) place using patch, Ventricular septial defect (VSD) closure using patch, Ventricular septial defect (VSD) entargement, Open fenestration of ventricular septial defect (VSD) phatopement, Open fenestration of ventricular septial defect (VSD) phatopement, Truccal valve replacement, Truccal valve replacement, Truccal valve replacement (and phatopement) Pulmonary valve closure-oversewing, Pulmonary valve closure-oversewing, Pulmonary valve course-oversewing, Pulmonary valve course-oversewing, Pulmonary valve and (Ge-band), Application of right & list pulmonary valval replacement, Pulmonary valva and (Ge-band), Application of right & list pulmonary valval replacement, Pulmonary valva thand (PA band), Pulmonary valval valval valval replacement, Pulmonary valval valval valval valval replacement, Pulmonary valval valval valval valval replacement, P	12.05.11 12.06.26 12.06.35 12.06.38 12.06.00 12.06.41 12.08.21 12.06.21 12.07.37 12.07.38 12.07.00 12.07.13 12.07.11 12.08.22 12.07.11 12.08.22 12.07.11 12.08.01 12.07.12 12.08.01 12.08.01 12.08.01 12.08.01 12.08.01 12.08.01 12.08.01 12.11.34 12.11.34 12.11.34 12.11.34 12.11.34 12.11.30 12.13.12 12.13.02 12.13.12 12.13.22 12.13.22 12.13.22 12.13.22 12.13.25 12.14.02 12.14.19 12.14.19	Cardiac procedure, Other DCRV repair Cardiac procedure, Other DCRV repair Aneurysm., Ventricular, Right, Repair RVOT procedure RVOT procedure RVOT procedure RVOT procedure RVOT procedure 11/2 ventricular repair Cardiac procedure, Other Aneurysm., Ventricular, Left, Repair Partial elter ventriculactorny (LV volume reduction) (Batista) Cardiac procedure, Other Aneurysm., Ventricular, Left, Repair Partial elter ventriculactorny (LV volume reduction) (Batista) Cardiac procedure, Other Aneurysm., Ventricular, Left, Repair Andric stenosis, Subvalvar, Repair Andric stenosis, Subvalvar, Repair Andric stenosis, Subvalvar, Repair Andric stenosis, Subvalvar, Repair Korno procedure VSD repair VSD repair, Primary closure VSD repair, Patch VSD repair, Patch VSD repair, Patch VSD creation / enlargement VSD creation of enlargement VSD creation of enlargement VSD creation / enlargement V
Atriovertricular septal defect (AVSD) & Tetralogy of Fallot repair, Ventricular and ventricular septum procedures Flight ventricular procedure, Double chambered fight ventricle repair, Right ventricular outflow tract procedure, Plight ventricular anausym repair, Right ventricular outflow tract procedure, Right ventricular anausym repair, Right ventricular procedure, Lett ventricular outflow tract expection, Subaortic (Bromuscular shelf resection, Lett ventricular septal defect (VSD) closure, Ventricular septal defect (VSD) closure, Ventricular septal defect (VSD) closure, Ventricular septal defect (VSD) closure in patch, Closure of multiple ventricular septal defect (VSD) patch in the procedure of the procedure, Pulmonary valvar procedure	12.05.11 12.06.26 12.06.35 12.06.38 12.06.00 12.06.41 12.08.21 12.06.21 12.07.26 12.07.37 12.07.38 12.07.00 12.07.13 12.07.11 12.08.22 12.07.11 12.08.22 12.07.11 12.08.01 12.07.12 12.08.01 12.08.01 12.08.03 12.08.03 12.08.03 12.08.03 12.08.04 12.08.05 12.08.06 12.08.19 12.11.34 12.11.41 12.11.43 12.11.43 12.11.40 12.13.55 12.13.12 12.13.21 12.13.21 12.13.21 12.13.21 12.13.21 12.13.21 12.13.21 12.13.21 12.14.01 12.14.01 12.14.01 12.14.01	Cardiac procedure, Other DCRV repair Cardiac procedure, Other DCRV repair Aneurysm., Ventricular, Right, Repair RVOT procedure RVOT procedure RVOT procedure RVOT procedure RVOT procedure 11-tz ventricular repair Cardiac procedure, Other Aneurysm., Ventricular, Left, Repair Partial elte ventriculectomy (LV volume reduction) (Batista) Cardiac procedure, Other Andric stenosis, Subvahar, Repair Aortic stenosis, Subvahar, Repair Korno procedure VSD repair, Primary closure VSD repair, Primary closure VSD repair, Patch VSD repair, Patch VSD creation of enlargement VSD creation of enlargement VSD creation of enlargement VSD creation of enlargement Vantucular septal fenestration Truncus Arteriosus repair Valudoplasty, furucal valve Valve optacement, Turucal valve Valve optacement, Turucal valve Valve optacement, Purmoric (PVR) Valve optacement, Purm
Abrioventricular septal defect (AVSD) & Tetralogy of Failot repair, Ventricular and ventricular septum procedures Flight ventricular procedure, Doube chambered right ventricle repair, Flight ventricular cuttlew tract procedure, Right ventricular cuttlew tract obstruction releif, Subprimorary obstruction releif, Subprimorary obstruction releif, Subprimorary obstruction releif, Subprimorary obstruction releif, Subprimorary obstruction releif, Subprimorary obstruction releif, Subprimorary obstruction releif, Subprimorary obstruction releif, Let ventricular procedure, Let ventricular analysis repair, Parall eller ventricular control variat office variation (Batista), Let ventricular outflow tract procedure, Let ventricular outflow tract outflow tractic outflow tract outflow tractic outflow t	12.05.11 12.06.26 12.06.35 12.06.38 12.06.00 12.06.41 12.08.21 12.06.21 12.07.26 12.07.37 12.07.38 12.07.00 12.07.11 12.08.22 12.07.11 12.08.22 12.07.11 12.08.22 12.07.11 12.08.01 12.07.12 12.08.01 12.08.01 12.08.03 12.08.03 12.08.03 12.08.03 12.08.04 12.08.05 12.08.06 12.08.19 12.11.34 12.11.43 12.11.43 12.11.43 12.13.00 12.13.02 12.13.12 12.13.12 12.13.12 12.13.12 12.13.15 12.13.11 12.14.03 12.14.03 12.14.03 12.14.03 12.14.01 12.14.02 12.14.01 12.14.01 12.14.01	Cardiac procedure, Other DCRV repair Cardiac procedure, Other DCRV repair Aneurysm., Ventricular, Right, Repair RVOT procedure RVOT procedure RVOT procedure RVOT procedure RVOT procedure 11-2 ventricular repair Cardiac procedure, Other Aneurysm., Ventricular, Left, Repair Partial elte ventriculectomy (LV volume reduction) (Batista) Cardiac procedure, Other Andric stenosis, Subvalvar, Repair Aortic stenosis, Subvalvar, Repair VSD repair VSD repair, Primary closure VSD repair, Patch VSD repair, Patch VSD repair, Petch VSD repair, Petch VSD respair, Petch VSD creation of enlargement VSD creation of enlargement VSD creation of enlargement VSD creation of enlargement Ventricular septal fenestration Truncus Anteriosus repair Valvoloplasty, converted to valve replacement in the same operation, Truncal valve Valvo colsuce, Semillurar Valve explacement, Pulmonic (PVR) Valvoloplasty converted to valve replacement in the same operation, Pulmonic PA bandring (PAB) Valvoloplasty converted to valve replacement in the same operation, Pulmonic PA bandring (PAB) Valvoloplasty, Main (runk) PA reconstruction (plasty), Main (runk) PA reconstruction (plasty), Main (runk) PA reconstruction (plasty), Branch, Peripheral (at or beyond the hilar bifurcation)
Abrioventricular septal defect (AVSD) & Tetralogy of Failot repair, Ventricular and ventricular septum procedures Flight ventricular procedure, Double chambered right ventricle repair, Right ventricular anusym repair, Right ventricular anusym repair, Right ventricular outliev tract obstruction relef, Subpulmonary obstruction relef, Subpulmonary obstruction relef, Subpulmonary obstruction relef, 1.5 ventricular procedure, Right ventricular procedure, Partial left ventricular anusym repair, Partial left ventricular anusym repair, Partial left ventricular outliev tract procedure, Left ventricular outliev tract procedure, Left ventricular outliev tract obstruction relef, Subsortic fibrormuscular shelf resection, Left ventricular septal defect (VSD) closure by direct subure, Ventricular septal defect (VSD) closure, Ventricular septal defect (VSD) closure using patch, Cosure of multiple ventricular septal defect (VSD), Cosure of multiple ventricular septal defect (VSD), Cosure of multiple ventricular septal defect (VSD) patch, Ventricular septal defect (VSD) pentagement (reation, Ventricular septal defect (VSD) pentagement, Open inventicular old ventricular septal defect (VSD) patch, Ventricular septal defect (VSD) pentagement, Pulmonary valvar pentagement (restored), Pulmonary valvar pentagement (restored), Pulmonary valvar pelacement, Pulmonary valvar pelacement (restored), Pulmonary valvar dericolare, Pulmonary valvar	12.05.11 12.06.26 12.06.35 12.06.35 12.06.00 12.06.41 12.06.21 12.06.19 12.07.26 12.07.37 12.07.38 12.07.00 12.07.11 12.08.22 12.07.10 12.07.11 12.08.01 12.08.01 12.08.01 12.08.03 12.08.03 12.08.03 12.08.03 12.08.06 12.08.06 12.08.19 12.11.00 12.11.34 12.11.41 12.11.43 12.11.30 12.13.12 12.14.13 12.14.13 12.14.10 12.14.31 12.14.01 12.14.31 12.14.10 12.14.20 12.14.21 12.14.21 12.14.22 12.15.24	Cardiac procedure, Other DCRV repair Aneurysm. Ventricular, Filght, Repair RVOT procedure 11/2 ventricular repair Cardiac procedure, Other Aneurysm. Ventricular, Left, Repair Partial left ventriculectomy (LV volume reduction) (Batista) Cardiac procedure, Other Anoric stenosis, Subvalvar, Repair Aoric stenosis, Subvalvar, Repair Aoric stenosis, Subvalvar, Repair Aoric stenosis, Subvalvar, Repair Aoric stenosis, Subvalvar, Repair Konno procedure VSD repair VSD repair VSD repair, Primary closure VSD repair, Primary closure VSD repair, Primary closure VSD repair, Primary closure VSD repair, Peth VSD multiple repair VSD creation / enfargement VSD retation / enfargement VSD retation / enfargement VSD retation / enfargement VSD retation / enfargement VSD residen / enfargement VSD retation / enfargement VSD residen / enfargeme
Attrovertricular septal defect (AVSD) & Tetralogy of Failot repair, Ventricular and ventricular septum procedures Flight vertricular procedure, Doube Instantered right vertricle repair, Right vertricular ansurysm repair, Right vertricular surulysm repair, Right vertricular surulysm repair, Right vertricular surulysm repair, Right vertricular surulysm repair, Right vertricular outlow tract obstruction relef, Subpulmonary obstruction relef, 1.5 ventricular procedure, Left vertricular ansurysm repair, Partal left vertriculectorny-volume reduction (Balista), Left vertricular ansurysm repair, Partal left vertricular outlow tract obstruction relef, Left vertricular vertricu	12.05.11 12.06.26 12.06.35 12.06.38 12.06.00 12.06.41 12.08.21 12.08.21 12.06.19 12.07.37 12.07.38 12.07.00 12.07.13 12.07.11 12.08.22 12.07.10 12.07.11 12.08.22 12.07.11 12.08.21 12.07.12 12.08.01 12.07.12 12.08.01 12.08.01 12.08.01 12.08.01 12.08.01 12.08.01 12.10.00 12.11.34 12.11.41 12.11.43 12.11.41 12.11.43 12.11.41 12.11.43 12.11.40 12.13.21 12.13.21 12.13.22 12.13.25 12.14.02 12.14.19 12.14.19 12.14.20 12.14.21 12.15.21 12.15.21 12.15.21 12.15.21	Cardiac procedure, Other DCRV repair Aneurysm., Ventricular, Right, Repair RVOT procedure 11/2 ventricular repair Cardiac procedure, Other Aneurysm., Ventricular, Left, Repair Partial elit ventriculactorny (LV volume reduction) (Batista) Cardiac procedure, Other Antic sterosis, Subvakar, Repair Aortic sterosis, Subvakar, Repair Aortic sterosis, Subvakar, Repair Aortic sterosis, Subvakar, Repair Korno procedure VSD repair VSD repair VSD repair, Primary closure VSD repair, Primary closure VSD repair, Patch VSD repair, Primary closure VSD repair, Pether VSD repair ventricular ventricular ventricular ventricular septal fenestration Truncus Anteriosus repair VSD creation / enlargement VSD reation / enlargement VSD repair (VSD repair) Valve excision, Pulmonary (without replacement) Valve closure, Semiluar Valve replacement, Pulmonic (PVR) Valve repl
Abroventricular septal defect (AVSD) & Tetralogy of Fallot repair, Ventricular and ventricular septum procedures Fight ventricular procedure, Double chambered right ventricle repair, Fight ventricular anotypam repair, Fight ventricular anotypam repair, Fight ventricular cultow tract obstruction releft, Subprimonary obstruction releft, Subprimonary obstruction releft, Subprimonary obstruction releft, 1.5 ventricular procedure, Left ventricular procedure, Left ventricular anotypam repair, Parial left ventricular control wract obstruction releft, Left ventricular anotypam repair, Parial left ventricular outlow tract obstruction releft, Left ventricular outlow tract obstruction releft, Left ventricular anotypam repair, Subanotic obstruction releft of the repair respection, Left ventricular aspetal defect (VSD) obsure using patch, Ventricular septal defect (VSD) obsure using patch, Ventricular septal defect (VSD) obsure using patch, Ventricular septal defect (VSD) entragement (resilion, Ventricular septal defect (VSD) entragement, Ventricular septal defect (VSD) entragement, Open Inessitation of ventricular septal defect (VSD) patch Ventricular septal defect (VSD) printingement, Open Inessitation of ventricular septal defect (VSD) patch, Ventricular septal defect (VSD) entragement, Putmonary valvar procedure, Putmonary valvar procedure, Putmonary valvar procedure, Putmonary valvar procedure, Putmonary valvar pleacement (rot condult), Putmonary valvar pleacement (rot condult), Putmonary valvar repleacement (rot condult), Putmonary valvar	12.05.11 12.06.26 12.06.35 12.06.38 12.06.00 12.06.41 12.08.21 12.06.21 12.07.26 12.07.37 12.07.38 12.07.00 12.07.13 12.07.11 12.08.22 12.07.10 12.07.11 12.08.22 12.07.01 12.07.12 12.08.01 12.08.01 12.08.01 12.08.01 12.08.03 12.08.03 12.08.16 12.08.35 12.08.06 12.08.19 12.11.34 12.11.41 12.11.43 12.11.43 12.11.43 12.11.40 12.11.41 12.11.41 12.11.43 12.14.00 12.13.02 12.13.12 12.13.22 12.13.25 12.14.00 12.14.19 12.14.01 12.14.01 12.14.01 12.14.20 12.14.21 12.14.20 12.14.21 12.14.20 12.14.21 12.15.24 12.15.24 12.15.24 12.15.26 12.15.26 12.15.26 12.15.26 12.15.21 12.15.21 12.15.21 12.15.21 12.15.21 12.15.21 12.15.21 12.15.21	Cardiac procedure, Other DCRV repair Cardiac procedure, Other DCRV repair Aneurysm., Ventricular, Right, Repair RVOT procedure 11/2 ventricular repair Cardiac procedure, Other Aneurysm., Ventricular, Left, Repair Partial left ventriculactorny (LV volume reduction) (Balista) Cardiac procedure, Other Aortic stenosis, Subvalvar, Repair Korno procedure VSD repair VSD repair, Primary closure VSD repair, Patch VSD repair, Patch VSD repair, Patch VSD multiple repair VSD creation of enlargement Varbuckoplasty, furucal valve Valve replacement, Turnical valve Valve replacement, Turnical valve Valve replacement, Turnical valve Valve replacement, Pulmonic (PVR) PA reconstruction (plasty), Branch, Peripheral (at or beyond the hilar bifurcation) PA reconstruction (plasty), Branch, Peripheral (at or beyond the hilar bifurcation) PA reconstruction (plasty), Branch, Peripheral (at or beyond the hilar bifurcation) Pantonary embolectomy, Acute pulmonary embolus Cardiac procedure, Other Valve baurgey, Other, Aortic Valvelopatsy, Aortic
Activementicular supplied elect (AVSD) & Totraboy of Fallot repair, Ventricular and ventricular septum procedures Figit vertricular and ventricular septum procedure, Doube chambered right vertricular serups mepair, Right vertricular and procedure, Supplimonary obstanction relief, 1.5 vertricular procedure, Lett vertricular procedure, Subaboric (Bromanuscular sheft resection, Lett vertricular procedure, Pulmonary valvar procedure, Pulmona	12.05.11 12.06.26 12.06.35 12.06.38 12.06.00 12.06.41 12.08.21 12.06.21 12.06.21 12.07.37 12.07.38 12.07.00 12.07.13 12.07.11 12.08.22 12.07.11 12.08.22 12.07.11 12.08.01 12.07.12 12.08.01 12.08.01 12.08.03 12.08.03 12.08.03 12.08.03 12.08.03 12.08.16 12.08.35 12.08.06 12.08.19 12.11.34 12.11.41 12.11.43 12.11.34 12.11.30 12.13.12 12.13.12 12.13.12 12.13.12 12.13.12 12.13.12 12.13.12 12.13.13 12.14.01 12.14.01 12.14.01 12.14.01 12.14.20 12.14.21 12.14.21 12.14.21 12.14.21 12.14.21 12.14.21 12.14.21 12.14.21 12.14.21 12.14.21 12.14.21 12.14.21 12.14.21 12.14.21 12.14.21 12.14.21 12.14.21 12.14.21 12.14.21 12.14.20 12.15.80 12.15.80 12.15.11	Cardiac procedure, Other DCRV repair Aneurysm. Ventricular, Right, Repair RVOT procedure 11/2 ventricular repair Cardiac procedure, Other Aneurysm. Ventricular, Left, Repair Partial elte ventriculectomy (LV volume reduction) (Batista) Cardiac procedure, Other Andric stenosis, Subvalvar, Repair Aortic stenosis, Subvalvar, Repair Aortic stenosis, Subvalvar, Repair Aortic stenosis, Subvalvar, Repair Aortic stenosis, Subvalvar, Repair Korno procedure VSD repair VSD repair, Primary closure VSD repair, Patch VSD repair, Patch VSD repair, Petch VSD repair, Petch VSD repair, Petch VSD creation of enlargement Valvoloplasty, furnical valve Valvoloplasty, pulmonic Valve exision, Pulmonary (without replacement) Valve colsure, Semillurar Valve replacement, Pulmonic (PVR) Valvoloplasty, converted to valve replacement in the same operation, Pulmonic PA bandring (PAB) PA debandring PA bandring (PAB) PA debandring PA bandring (PAB) PA reconstruction (plasty), Branch, Peripheral (at or beyond the hilar bifurcation) Par reconstruction (plasty), Branch, Peripheral (at or beyond the hilar bifurcation) Pulmonary embolectomy Pulmonary embolecto
Ventricular and ventricular septum procedures Fight ventricular procedure, Double Chambered right ventricle repair, Right ventricular procedure, Double Chambered right ventricle repair, Right ventricular annusymen repair, Right ventricular annusymen repair, Right ventricular collow hater procedure, Right ventricular collow hater brocedure, Right ventricular collow hater brocedure, Right ventricular collow hater brocedure, Right ventricular probabilities 1.5 sentricular special respector computationary (Glern) anastomosis + right ventricular outflow hater respectors Left ventricular annusymen repair, Partial felt ventricular condition tract office whater for respective procedure, Left ventricular colflow tract foredown reporting to the complex (Korno etc.) Left ventricular colflow tract foredown reporting to the complex (Korno etc.) Left ventricular colflow tract office whater foredown, Left ventricular colflow tract office whater foredown, Left ventricular septial defect (VSD) closure using patch, Subanotic fibromascular shaft resection, Left ventricular septial defect (VSD) closure using patch, Ventricular septial defect (VSD) pertagement (readion,	12.05.11 12.06.26 12.06.35 12.06.35 12.06.00 12.06.41 12.06.21 12.06.21 12.06.19 12.07.37 12.07.38 12.07.00 12.07.13 12.07.11 12.08.22 12.07.11 12.08.22 12.07.11 12.08.22 12.07.11 12.08.21 12.08.01 12.08.01 12.08.01 12.08.03 12.08.16 12.08.03 12.08.16 12.08.35 12.08.06 12.08.19 12.11.34 12.11.41 12.11.43 12.13.00 12.13.12 12.13.12 12.13.12 12.13.12 12.13.12 12.13.12 12.13.13 12.14.01 12.14.03 12.14.03 12.14.19 12.14.20 12.14.21 12.14.21 12.14.21 12.14.21 12.14.21 12.14.21 12.15.44 12.15.61 12.16.00 12.16.01 12.16.00 12.16.01 12.16.01 12.16.01 12.16.01 12.16.01 12.16.11 12.16.01	Cardiac procedure, Other DCRV repair Aneurysm., Ventricular, Right, Repair RVOT procedure RVOT prepair RVOT procedure RVSD repair RVOT propair, Primary closure RVSD repair, Primary closure RVSD repair RVSD repair, Primary closure RVSD repair RVSD rep
Activious particular septial delect (AVSD) & Totalogy of Fallot repair, Ventricular and ventricular septum procedures Figit ventricular procedure, Ducible chambered right ventricle repair, Right ventricular anausyms repair, Right ventricular anausyms repair, Right ventricular anausyms repair, Right ventricular cultivo tract obstruction relef, Subpulmorary obstruction relef, Subpulmorary obstruction relef, Subpulmorary obstruction relef, I. 5 ventricular septial cespedir caeppulmorary (Giern) anastomosis + right ventricular outflow tract orsepulmorary (Giern) anastomosis + right ventricular outflow tract procedure, Left ventricular cultivo tract obstruction relef, Left ventricular supplial delect (VSD) obsure, Left ventricular septial delect (VSD) obsure, Subacific Ritomoracular select resection, Left ventricular septial delect (VSD) obsure, Ventricular septial delect (VSD) obsure, Ventricular septial delect (VSD) obsure by direct subure, Ventricular septial delect (VSD) obsure delection obstruction relef, Common anterial trunk (Innucus) repair, Common anterial trunk (Innucus) repair, Ventricular-septial delect (VSD) repartment Open fenestration of ventricular septial delect (VSD) patch, Ventricular-septial delect (VSD) repair which procedures Common anterial trunk (Innucus) repair, Trucal whe replacement Pulmonary valva replacement, Pulmonary valva replacement (Pulmonary valva replacement, Pulmonary valva replacem	12.05.11 12.06.26 12.06.35 12.06.38 12.06.00 12.06.41 12.06.21 12.06.21 12.06.21 12.07.37 12.07.38 12.07.00 12.07.13 12.07.11 12.08.22 12.07.11 12.08.22 12.07.11 12.08.20 12.08.01 12.08.01 12.08.02 12.08.03 12.08.03 12.08.16 12.08.03 12.08.16 12.08.35 12.08.06 12.08.19 12.11.34 12.11.43 12.11.43 12.11.34 12.11.43 12.11.30 12.13.12 12.13.12 12.13.12 12.13.12 12.13.12 12.13.12 12.13.12 12.13.12 12.13.12 12.13.13 12.14.01 12.14.03 12.14.03 12.14.01 12.14.01 12.14.01 12.14.01 12.14.01 12.14.01 12.14.01 12.14.01 12.15.61 12.15.61 12.15.61 12.15.61 12.15.61 12.15.61 12.15.61 12.15.61 12.15.61 12.15.61 12.15.61 12.15.61 12.15.61 12.15.61 12.15.61	Cardiac procedure, Other DCRV repair Aneurysm., Ventricular, Right, Repair RVOT procedure RVOT proprice RVOT procedure RVOT proprice RVOT procedure RVOT proprice RVOT procedure RV
Ventricular and ventricular septum procedures Figit ventricular and ventricular septum procedures Figit ventricular and ventricular septum procedure, Double chambered right ventricular analysem repair, Figit ventricular analysem repair, Figit ventricular analysem repair, Figit ventricular analysem repair, Figit ventricular outlow tract observation relef. Subplumorary obsenzion relef. 1.5 ventricular septim seperior coepulmorary (Genn) anastomosis + right ventricular outlow tract observation relef. 1.5 ventricular septim observation relef. Left ventricular analysem repair. Parial left ventricular cultion bract obstruction relef. Left ventricular cultion bract distruction relef. Left ventricular septim obstruction relef. Subacific fibromascular shell resection, Left ventricular septim obstruction relef. Subacific fibromascular shell resection, Left ventricular septim obstruction relef. Subacific fibromascular shell resection, Left ventricular septim obstruction relef. Ventricular septim obstruction releft complex (Korno etc.). Ventricular septim obstruction releft complex (Korno etc.). Ventricular septim obstruction releft complex (Korno etc.). Ventricular septim obstruction releft complex (VoDn), Ventricular septim obstruction releft obstruction releft complex (VoDn), Ventricular septim obstruction releft obstruction releft complex (VoDn), Ventricular septim obstruction releft obstruc	12.05.11 12.06.26 12.06.35 12.06.35 12.06.38 12.06.00 12.06.41 12.09.21 12.06.19 12.07.26 12.07.37 12.07.38 12.07.00 12.07.13 12.07.11 12.08.22 12.07.01 12.07.12 12.07.11 12.08.22 12.07.01 12.08.03 12.08.03 12.08.16 12.08.35 12.08.16 12.08.35 12.08.19 12.11.41 12.11.43 12.11.41 12.11.43 12.11.41 12.11.43 12.11.40 12.11.35 12.13.25 12.13.25 12.13.25 12.14.00 12.14.01 12.14.03 12.14.01 12.14.20 12.14.21 12.14.21 12.14.21 12.14.21 12.14.21 12.14.21 12.14.21 12.15.60 12.16.00 12.16.00 12.16.00 12.16.01	Cardiac procedure, Other DCRV repair Aneurysm, Ventricular, Right, Repair RVOT procedure 112 ventricular repair Cardiac procedure, Other Aneurysm, Ventricular, Left, Repair Partial left ventricular (Left peair Partial left ventricular procedure, Other Andric stenosis, Subvalvar, Repair VSD repair, Primary closure VSD repair, Patch VSD repair, Patch VSD respair, Patch VSD multiple repair VSD creation i enlargement VSD creation i i i i

Aortic root replacement (not Ross),	12.16.50	Aortic root replacement
Aortic root replacement using homograft, Aortic root replacement using mechanical prosthesis,	12.16.63 12.16.64	Aortic root replacement, Homograft Aortic root replacement, Mechanical
Aorlic root replacement using bioprosthesis,	12.17.90	Aortic root replacement, Bioprosthetic
Aortic root replacement: valve sparing technique, Aortic root replacement + coronary artery reimplantation (Bentall),	12.17.91 12.16.33	Aortic root replacement, Valve sparing Aortic root replacement
Ascending aorta replacement, Ascending aorta replacement & aortic valvar resuspension,	12.16.65 12.16.35	Aortic aneurysm repair Aortic aneurysm repair
Ross procedure: aortic valve or root replacement with pulmonary autograft & pulmonary valvar replacement, Ross-Konno procedure,	12.16.30 12.16.62	Ross rocedure Ross - Konno procedure
Aortic sinus of Valsalva procedure, Aortic sinus of Valsalva distal fistula closure,	12.16.80 12.16.81	Cardiac procedure, Other Sinus of Valsalva, Aneurysm repair
Aortic sinus of Valsalva aneurysm repair, Aorto-left ventricular tunnel closure.	12.16.85 12.16.90	Sinus of Valsalva, Aneurysm repair LV to aorta tunnel repair
Aortopulmonary window closure,	12.12.01 12.14.30	AP window repair
Pulmonary artery origin from ascending aorta (hemitruncus) repair, Supravalvar aortic stenosis repair,	12.16.40	Pulmonary artery origin from ascending aorta (hemitruncus) repair Aortic stenosis, Supravalvar, Repair
Aorta aneurysm repair, Aortic arch aneurysm repair,	12.16.42 12.16.66	Aortic aneurysm repair Aortic aneurysm repair
Descending aortá aneurysm repair, Abdominal aortá aneurysm repair,	12.16.67 12.16.68	Aortic aneurysm repair Aortic aneurysm repair
Aortic dissection repair,	12.16.59	Aortic dissection repair
Aortopexy, Systemic arterial procedure,	12.17.31 12.22.00	Aortopexy Peripheral vascular procedure, Other
Vascular ring procedure, Pulmonary arterial sling repair,	12.17.11 12.17.32	Vascular ring repair Pulmonary artery sling repair
Aortic arch repair,	12.18.30	Aortic arch repair
Coarctation-hypoplasia of aorta repair,	12.18.00	Coartation repair
Aortic coarctation-hypoplasia repair by resection & end to end anastomosis, Aortic coarctation-hypoplasia repair by patch aortoplasty,	12.18.01 12.18.02	Coarctation repair, End to end Coarctation repair, Patch aortoplasty
Aortic coarctation-hypoplasia repair by subclavian flap aortoplasty, Aortic coarctation-hypoplasia repair by resection & extended end to end anastomosis,	12.18.03 12.18.10	Coarctation repair, Subclavian flap Coarctation repair, End to end, Extended
Aortic coarctation/hypoplasia repair by resection & insertion of tube graft, hterupted aortic arch repair.	12.18.15 12.21.00	Coarctation repair, Interposition graft Interrupted aortic arch repair
Arterial duct-ligament procedure, Arterial duct (PDA) closure,	12.24.00 12.24.10	Cardiac procedure, Other PDA closure
Patent arterial duct (PDA) closure: surgical,	12.24.20	PDA closure, Surgical
Fallot, double outlet ventricle and transposition procedures		
Tetralogy of Fallot repair,	12.26.01	TOF repair
Tetralogy of Fallot repair with transannular patch, Tetralogy of Fallot repair without transannular patch,	12.26.13 12.26.20	TOF repair, Ventriculotomy, Transanular patch TOF repair, Ventriculotomy, Nontransanular patch
Right ventricle to pulmonary arterial tree conduit construction,	12.36.01	Conduit placement, RV to PA
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,	12.27.01 12.28.01	DORV repair Pulmonary atresia: VSD (including TOF, PA) repair
Pulmonary atresia, ventricular septal defect (VSD) & systemic-to-pulmonary collateral artery(ies) (MAPCA(s)) repair, Absent pulmonary valve syndrome (Fallot type) repair,	12.28.11 12.26.21	Pulmonary atresia: VSD: MAPCA (pseudotruncus) repair TOF- Absent pulmonary valve repair
Systemic-to-pulmonary collateral artery(ies) (MAPCA(s)) occlusion, Systemic-to-pulmonary collateral artery(ies) (MAPCA(s)) unifocalisation procedure,	12.25.18 12.25.00	Occlusion MAPCA(s) Unifocalization MAPCA(s)
Arterial switch procedure, Senning procedure (atrial inversion),	12.29.21 12.29.01	Arterial switch operation (ASO) Senning
Mustard procedure (atrial inversion), Atrial inversion procedure (Mustard or Senning) revision,	12.29.02 12.29.79	Mustard Atrial baffle procedure, Mustard or Senning revision
Rastelli procedure: intraventricular left ventricle to aorta tunnel & right ventricle to pulmonary artery conduit,	12.29.11 12.27.45	Rastelli REV
REV procedure: intraventricular left ventricle to aorta tunnel with infundibular septum resection & direct right ventricle to pulmonary trunk anastomosis, Complex transposition of great arteries repair,	12.29.40	TGA, Other procedures (Nikaido, Kawashima, LV-PA conduit, other)
Aortic root translocation to over left ventricle (including Nikaidoh), Double outlet right ventricle repair,	12.27.78 12.29.20	Aortic root translocation over left ventricle (Including Nikaidoh procedure) DORV repair
Double outlet right ventricle repair with intraventricular tunnel, Congenitally corrected transposition of great arteries repair,	12.27.02 12.27.46	DORV, Intraventricular tunnel repair Congenitally corrected TGA repair
Arterial switch & atrial inversion procedures ('double switch'),	12.29.25 12.29.26	Congenitally corrected TGA repair, Atrial Switch and ASO (Double Switch) Congenitally corrected TGA repair, Atrial Switch and Rastelli
Atrial inversion and Rastelli procedures, Double outlet left vertricle repair,	12.27.50	DOLV repair
Procedures for functionally univentricular heart		
Ridirectional superior cayonulmonary (Glenn) anastomosis	12.31.11	Bidirectional cavopulmonary anastomosis (BDCPA) (bidirectional Glenn)
Bilateral bidirectional superior cavopulmonary (Glenn) anastomoses,	12.31.44	Bidirectional cavopulmonary anastomosis (BDCPA) (bidirectional Glenn) bidirectional Glenn)
Bilateral bidirectional superior cavopulmonary (Glenn) anastomoses, Urdirectional superior cavopulmonary (Glenn) anastomosis, Hemi-Fortan procedure,	12.31.44 12.31.45 12.31.15	bidirectional Glenn) Glenn (Unidirectional cavopulmonary anastomosis) (unidirectional Glenn) Hemifontan
Bilateral bidirectional superior cavopulmonary (Glenn) anastomoses, Unidirectional superior cavopulmonary (Glenn) anastomosis,	12.31.44 12.31.45	bidirectional Glenn) Glenn (Unidirectional cavopulmonary anastomosis) (unidirectional Glenn)
Bitateral bidirectional superior cavopulmonary (Glerni) anastomoses, Undirectional superior cavopulmonary (Glerni) anastomoses, Hemii-Fortan procedure, Superior caval vein to pulmonary artery anastomosis, Fortan type procedure, Total cavopulmonary connection (TCPC).	12.31.44 12.31.45 12.31.15 12.31.72 12.30.01 12.30.50	bidirectional Glern) Glern (Undirectional cavopulmonary anastomosis) (undirectional Glern) Hernilontan Cardiac procedure, Other Fontan Fontan
Bilateral bidirectional superior cavopulmonary (Glenn) anastomoses, Undirectional superior cavopulmonary (Glenn) anastomoses, Hemi-Fortan procedure, Superior caval viei to pulmonary artery anastomosis, Fortan type procedure, Total cavopulmonary connection (TCPC), Total cavopulmonary connection (TCPC) using extracardiac inferior caval vein (IVC)-pulmonary artery conduit, Total cavopulmonary connection (TCPC) using extracardiac inferior caval vein (IVC)-pulmonary artery conduit, Total cavopulmonary connection (TCPC) using extracardiac inferior caval vein (IVC)-pulmonary artery conduit with fenestration,	12.31.44 12.31.45 12.31.15 12.31.72 12.30.01 12.30.50 12.30.54 12.30.05	bidirectional Glenn) Glem (Unidirectional cavopulmonary anastomosis) (unidirectional Glenn) Hemiloratan Cardiac procedure, Other Fontan Fontan Fontan TCPC, External conduit Fontan, TCPC, External conduit, Fenestrated
Bilateral bidirectional superior cavopulmonary (Glenn) anastomoses, Undirectional superior cavopulmonary (Glenn) anastomoses, Hemi-Fortan procedure, Superior caval vien to pulmonary artery anastomosis, Fortan type procedure, Total cavopulmonary connection (TCPC), Total cavopulmonary connection (TCPC) using extracardiac inferior caval vein (IVC)-pulmonary artery conduit, Total cavopulmonary connection (TCPC) using extracardiac inferior caval vein (IVC)-pulmonary artery conduit, Total cavopulmonary connection (TCPC) with lateral artial turnet,	12:31.44 12:31.45 12:31.15 12:31.72 12:30.01 12:30.50 12:30.54 12:30.51 12:30.51 12:30.51	bidirectional Glenn) Glem (Undirectional cavopulmonary anastomosis) (unidirectional Glenn) Hemiloritan Cardiac procedure, Other Fortan Fortan Fortan, TCPC, External conduit Fortan, TCPC, External conduit, Fenestrated Fortan, TCPC, Lateral furnel Fortan, TCPC, Lateral furnel Fortan, TCPC, Lateral furnel
Bilateral bidirectional superior cavopulmonary (Glern) anastomoses, Undirectional superior cavopulmonary (Glern) anastomoses, Hemi-Fortan procedure, Superior caval vein to pulmonary artery anastomosis, Fortan type procedure, Total cavopulmonary connection (TCPC), Total cavopulmonary connection (TCPC) using extracardiac inferior caval vein (IVC)-pulmonary artery conduit, Total cavopulmonary connection (TCPC) using extracardiac inferior caval vein (IVC)-pulmonary artery conduit with fenestration, Total cavopulmonary connection (TCPC) with internal arial furner,	1231.44 1231.45 1231.15 1231.72 1230.50 1230.54 1230.51 1230.51	bidirectional Glern) Glenn (Unidirectional avopulmonary anastomosis) (unidirectional Glern) Herniforstan Cardiac procedure, Other Fortan Fortan Fortan Fortan Fortan, CPC, External condult, Fenestrated Fortan, TCPC, External condult, Fenestrated Fortan, TCPC, Lateral tumel
Bilateral bidirectional superior cavopulmonary (Glenn) anastomoses, Undirectional superior cavopulmonary (Glenn) anastomoses, Hemi-Fortan procedure, Superior caval vein to pulmonary artery anastomosis, Fontan type procedure, Total cavopulmonary connection (TCPC), Total cavopulmonary connection (TCPC) using extracardiac inferior caval vein (IVC)-pulmonary artery conduit, Total cavopulmonary connection (TCPC) using extracardiac inferior caval vein (IVC)-pulmonary artery conduit, Total cavopulmonary connection (TCPC) with lateral artial turnel, Total cavopulmonary connection (TCPC) with lateral artial turnel, Total cavopulmonary connection (TCPC) with lateral artial turnel, Fontan procedure with direct atriopulmonary anastomosis, Fontan procedure with direct atriopulmonary anastomosis, Fontan procedure with atriovertificular connection, Fenestration of Fortan type connection,	12.31.44 12.31.45 12.31.15 12.31.72 12.30.01 12.30.50 12.30.54 12.30.05 12.30.51 12.30.06 12.30.32 12.30.13 12.30.13	bidirectional Glenn) Glenn (Unidirectional cavopulmonary anastomosis) (unidirectional Glenn) Hernifortan Cardiac procedure, Other Fortan Fortan Fortan Fortan, TCPC, External conduit Fortan, TCPC, External conduit, Fenestrated Fortan, TCPC, Lateral turnel Fortan, TCPC, Lateral turnel Fortan, TCPC, uniformal processors Fortan, TCPC, uniformal processors Fortan, TCPC, uniformal processors Fortan, Attor-uniforal processors Fortan, Attor-ventricular connection Fortan, Attor-ventricular connection Fortan, Attor-ventricular connection Fortan, Other
Bilateral bidirectional superior cavopulmonary (Glenn) anastomoses, Undirectional superior cavopulmonary (Glenn) anastomoses, Hemi-Fortan procedure, Superior caval vien to pulmonary artery anastomosis, Fortan type procedure, Total cavopulmonary connection (TCPC), Total cavopulmonary connection (TCPC) using extracardiac inferior caval vein (IVC)-pulmonary artery conduit, Total cavopulmonary connection (TCPC) using extracardiac inferior caval vein (IVC)-pulmonary artery conduit, Total cavopulmonary connection (TCPC) which lateral afrial turnel, Total cavopulmonary connection (TCPC) with lateral afrial turnel, Total cavopulmonary connection (TCPC) with lateral afrial turnel, Fortan procedure with direct atriopulmonary anastomosis, Fortan procedure with direct atriopulmonary anastomosis, Fortan type connection of Fortan type connection, Fortan-type connection without fenestration, Fortan-type procedure evitations or conversion,	12.31.44 12.31.45 12.31.15 12.31.72 12.30.01 12.30.54 12.30.05 12.30.51 12.30.06 12.30.32 12.30.32 12.30.32 12.30.32 12.30.32	bidirectional Glenn) Glem (Unidirectional cavopulmonary anastomosis) (unidirectional Glenn) Hemiloritan Cardiac procedure, Other Fortan Fortan Fortan Fortan, TCPC, External conduit Fortan, TCPC, External conduit, Fenestrated Fortan, TCPC, Lateral turnel Fortan, TCPC, Lateral turnel Fortan, TCPC, Lateral turnel Fortan, TCPC, Lateral turnel Fortan, TCPC, tarel fortance, Fenestrated Fortan, Atrio-pulmonary connection Fortan, Atrio-vertificular connection Fortan, Other Fortan, Other
Bilateral bidirectional superior cavopulmonary (Glenn) anastomoses, Undirectional superior cavopulmonary (Glenn) anastomoses, Hemi-Fortan procedure, Superior caval vien to pulmonary artery anastomosis, Fortan type procedure, Total cavopulmonary connection (TCPC). Total cavopulmonary connection (TCPC) using extracardiac inferior caval vein (IVC)-pulmonary artery conduit, Total cavopulmonary connection (TCPC) using extracardiac inferior caval vein (IVC)-pulmonary artery conduit with fenestration, Total cavopulmonary connection (TCPC) with terms at airla turnet, Total cavopulmonary connection (TCPC) with terms at airla turnet, Total cavopulmonary connection (TCPC) with terms at airla turnet, Total cavopulmonary connection (TCPC) with fenestrated lateral atrial turnet, Fortan procedure with atriovertificular connection, Fortan-type connection without fenestration, Fortan-type connection without fenestration,	12.31.44 12.31.45 12.31.72 12.30.01 12.30.50 12.30.54 12.30.05 12.30.05 12.30.05 12.30.02 12.30.02 12.30.02 12.30.02 12.30.02	bidirectional Glenn) Glenn (Unidirectional cavopulmonary anastomosis) (unidirectional Glenn) Hemiloritan Cardiac procedure, Other Fortan Fortan Fortan Fortan, TOPC, External condult, Fenestrated Fortan, TOPC, Lateral turnel Fortan, Airo-pulmonary connection Fortan, Airo-ventricular connection Fortan, Other
Bilateral bidirectional superior cavopulmonary (Glenn) anastomoses, Undirectional superior cavopulmonary (Glenn) anastomoses, Hemi-Fortan procedure, Superior caval vien to pulmonary artery anastomosis, Fortan type procedure, Total cavopulmonary connection (TCPC), Total cavopulmonary connection (TCPC) using extracardiac inferior caval vein (IVC)-pulmonary artery conduit, Total cavopulmonary connection (TCPC) using extracardiac inferior caval vein (IVC)-pulmonary artery conduit, Total cavopulmonary connection (TCPC) with tense tartial carried, Total cavopulmonary connection (TCPC) with tense tated lateral atrial tunnel, Total cavopulmonary connection (TCPC) with tense tated lateral atrial tunnel, Fortan procedure with direct atriopulmonary anastomosis, Fortan type connection without fensestation, Fortan type connection will but fensestation, Fortan type connection willout fensestation, Fortan type connection willout fensestation, Fortan type procedure revision or conversion, Conversion of Fortan type to total cavopulmonary connection, Takedown of Fortan type procedure, Takedown of Fortan type procedure, Takedown of Fortan type procedure,	12.31.44 12.31.45 12.31.15 12.31.72 12.30.01 12.30.54 12.30.51 12.30.65 12.30.61 12.30.62 12.30.62 12.30.62 12.30.62 12.30.62 12.30.62 12.30.62 12.30.62 12.30.62 12.30.62 12.30.63 12.30.62 12.30.63 12.30.62 12.30.63 12.30.63 12.30.63 12.30.63 12.30.63 12.30.65	bidirectional Glern) Glern (Lindicertonal avopulmonary anastomosis) (unidirectional Glern) Hemilontan Cardiac procedure, Other Fortan Fortan Fortan Fortan Fortan, TCPC, External conduit Fortan, TCPC, External conduit, Fenestrated Fortan, TCPC, Lateral turnel Fortan, TCPC Fortan, TCPC Fortan, TCPC Fortan Fortan, Other Fortan, Other Fortan, Other
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Debridement of chest wall incision, Anterior chest wall (pectus) repair, Pectus cariatum repair, Sternal wite removal from previous stemotomy, Mediastrial exploration, Insertion of mediastrial abde drain, Insertion of mediastrial abde drain, Pleural procedure, Insertion of pleural tube drain, Pleural procedure, Insertion of pleural tube drain, Pleural procedure, Perodesis, Pariatal pleurectomy, Open exision of pleural lesion, Pronchoscopir, Bronchoscopir, Bronc	12.65.23 12.65.14 12.65.14 12.65.48 12.65.48 12.65.06 12.65.06 12.65.06 12.65.06 12.32.83 12.65.82 12.65.82 12.65.82 12.65.82 12.64.08 12.64.08 12.64.08 12.64.08 12.64.08 12.66.00 12.32.06 12.66.00 12.32.06 12.66.00 12.32.06 12.66.00 12.33.53 12.65.37 12.65.37 12.65.37 12.65.37 12.65.37 12.65.37 12.65.37 12.65.37 12.65.37 12.65.37 12.65.37 12.80.37 12.80.37 12.80.38 12.33.53	Pectas repair Noracia and or mediastinal procedure, Other Mediastinal epicoration Mediastinal epicoration Starmolomy wound drainage Pieural procedure, Other Pieural procedure Pestoporative trachestomy Tracheal procedure Postoperative trachestomy Tracheal procedure Lung procedure, Other Thoracia and or mediastinal procedure, Other Thoracia and or mediastinal procedure, Other Miscellaneous procedure, Other Non-cardiovascular, Non-thoracic procedure on cardiac patient with cardiac Cardiac procedure, Other Stent placement VSD repair, Device Cardiac procedure, Other Hybrid Approach "Stage 1" Cardiac procedure, Other Hybrid Approach "Stage 1" Cardiac procedure, Other Hybrid Approach "Stage 1" Cardiac procedure, Other
Debridsment of chest wall incision, Anterior chest wall (pectus) repair, Pectus carinatum repair, Pectus exavatum repair, Pectus exavatum repair, Sternal wire removal from previous stemotomy, Mediastrial procedure, Mediastrial exploration, Insertion of mediastrial tube drain, Pleural procedure, Insertion of pleural tube drain, Pleural procedure, Insertion of pleural tube drain, Pleural procedure, Insertion of pleural lesion, Ponchoscopy, Open excision of pleural lesion, Bronchoscopy, Bronchoscopic removal of foreign body, Tracheal procedure, Insertion of pleural lesion, Bronchoscopy, Bronchoscopy creation, Tracheactomy creation, Tracheactomy creation, Tracheactomy creation, Tracheactomy procedure, Lung biopsy procedure, Lung deconfication, Lung mass excision, Lung lobectomy, Preumonectomy, Preumonectomy, Preumonectomy, Lung sequestration repair, Thoracic-mediastrial procedure, Intestinal procedure, Intestinal procedure, Intestinal procedure, Intestinal procedure, Non-cardiothoracic-vascular procedure on cardiac patient under cardiac anaesthesia, Hybrid approach (combined surgical & transtuminal), Transapical acritic valve implantation (hybrid approach); Hybpoplastic leth theat syndrome hybrid approach (transcatheter & surgery): stage 1. Application of bilateral primorary arterial bands & transcatheter & surgery): stage 1. Application of bilateral primorary arterial bands & transcatheter & surgery): stage 1. Application of bilateral primorary arterial bands & transcatheter & surgery): stage 2: aortopulmonary amalgamation + superior cavopulmorary anastomosis(es) + debatanting of pulmorary arterial bands & transcatheter & surgery): stage 2: aortopulmonary amalgamation + superior cavopulmorary anastomosis(es) + debatanting of pulmorary arterial bands & transcatheter & surgery) stage 2: aortopulmonary amalgamation + superior cavopulmorary anastomosis(es) + debatanting of pulmorary arterial bands & transcatheter & surgery) stage 2: aortopulmonary amalgamation + superior cavopulmorary anastomosis(es) + debatanting of	12.65.23 12.65.14 12.65.48 12.65.548 12.65.505 12.65.505 12.65.505 12.65.509 12.65.689 12.65.689 12.65.682 12.65.682 12.65.682 12.64.08 12.64.08 12.64.00 12.64.00 12.64.00 12.64.00 12.64.00 12.65.001 12.65.001 12.65.001 12.65.001 12.80.001	Pectus repair Mediastinal procedure Mediastinal exploration Sternborny wound drainage Pleural procedure, Other Pleural procedure Postoperative tracheostomy Tracheal procedure Lung procedure, Other Miscellaneous procedure, Other Non-cardiovascular, Non-thoracic procedure on cardiac patient with cardiac Cardiac procedure, Other Stert placement VSD repair, Device Cardiac procedure, Other Advice procedure, Other Advicedure, Other Stert placement VSD repair, Device Cardiac procedure, Other Cavopulmorary anastomosis(es) + PA Debarding)
Debridsment of chest wall incision, Anterior chest wall (pectus) repair, Pectus carinatum repair, Pectus exavatum repair, Pectus exavatum repair, Sternal wire removal from previous stemotomy, Mediastrial procedure, Mediastrial exploration, Insertion of mediastrial alube drain, Pleural procedure, Insertion of pleural tabe drain, Pleural procedure, Insertion of pleural tabe drain, Pleurodesis, Parietal pleurectomy, Open exision of pleural tesion, Procedure, Tracheostomy removal of foreign body, Tracheal procedure, Tracheostomy creation, Tracheostomy resalton, Lung procedure, Lung biopsy procedure, Lung decorrication, Lung mass excision, Lung bectomy, Pneuronectomy, Lung sequestration repair, Thoracio-mediastrial procedure, Disphragm procedure, Disphragm procedure, Disphragm procedure, Non-cardiothoracio-vascular procedure on cardiac patient under cardiac anaesthesia, Hybrid procedures: operative & transcatheret approaches Hybrid approach (combined surgical & transcatheret approaches Hybrid approach (combined surgical & transcatheret approaches Hybrid approach (combined surgical & transcatheret a surgery), Hypoplastic let heart syndrome bythid approach), Transapical aortic valve implantation (hybrid approach), Hypoplastic let heart syndrome bythid approach (transcatheret & surgery); stage 2: aortopulmonary amastomosis(es) + Hypoplastic let heart syndrome bythid approach (transcatheret & surgery); stage 2: aortopulmonary amastgamation + superior cavopulmonary anastomosis(es) +	12 65 23 12 65 13 12 65 14 12 65 64 12 65 64 12 65 65 65 12 65 05 12 65 06 12 65 06 12 65 07 12 65 07 12 64 08 12 64 08 12 64 08 12 64 08 12 64 08 12 64 08 12 64 08 12 64 08 12 64 00 12 64 08 12 64 08 12 65 00	Pectas repair Pectas repair Pectas repair Pectas repair Pectas repair Pectas repair Thoracic and-or mediastinal procedure, Other Mediastinal procedure Mediastinal procedure Mediastinal exploration Sternotomy wound drainage Pleural procedure, Other Pleural procedure Postoperative tracheostomy Tracheal procedure Postoperative tracheostomy Tracheal procedure Using procedure, Other Lung procedure, Other Miscellaracies, Other Miscellaracies, Other Miscellaracies procedure, Other Miscellaracies procedure, Other Miscellaracies procedure, Other Miscellaracies procedure, Other Non-cardiovascular, Non-thoracic procedure on cardiac patient with cardiac Cardiac procedure, Other Non-cardiovascular, Non-thoracic procedure on cardiac patient with cardiac Cardiac procedure, Other Non-cardiovascular, Non-thoracic procedure on cardiac patient with cardiac Cardiac procedure, Other Non-cardiovascular, Non-thoracic procedure on cardiac patient with cardiac Cardiac procedure, Other Non-cardiovascular, Non-thoracic procedure on cardiac patient with cardiac Cardiac procedure, Other Non-cardiovascular, Non-thoracics Cardiac pro
Debridement of chest wall incision, Anterior chest wall (pectus) repair, Pectus carinatum repair, Pectus exavatum repair, Pectus exavatum repair, Pectus exavatum repair, Sternal vier removal from previous stemotomy, Mediastrial ropicoedure, Mediastrial procedure, Mediastrial ropicoedure, Mediastrial procedure, Mediastrial procedure, Mediastrial procedure, Mediastrial pleuredomy, Open excision of pleural tube drain, Pleurodesis, Parietal pleuredomy, Open excision of pleural tube drain, Pleurodesis, Parietal pleuredomy, Open excision of pleural tube drain, Pleurodesis, Parietal pleuredomy, Open excision of pleural tube drain, Pleurodesis, Parietal pleuredomy, Open excision of pleural tube drain, Pleurodesis, Parietal pleuredomy, Tracheotronthal reconstruction procedure, Tracheotronthal reconstruction procedure, Lung decordication, Lung decordication, Lung decordication, Lung bloectomy, Pneumonedomy, Lung sequestration repair, Thoracio-mediastrial procedure, Oesophageal procedure, Diaphragm procedure, Diaphragm procedure, Percutaneous feeding gastrostomy tube placement (PEG), Laparotomy, Non-cardiothoracio-vascular procedure on cardiac patient under cardiac anaesthesia, Hybrid procedures-coperative & transcatheter approaches Hybrid approach (combined surgical & transcluminal), Transpical aortic valve implantation (hybrid approach), Intraoperative ventricular septal detect (YSD) closure with transcluminal device (fybrid approach), Hypoplastic let heart syndrome hybrid approach (transcatheter & surgery); stage 2*: aortopulmonary amalgamation + superior cavopulmonary anastomosis(es) + debarding of pulmonary arteries + art-repair, Hypoplastic let heart syndrome hybrid approach (transcatheter & surgery) 'stage 2*: aortopulmonary amalgamation + superior cavopulmonary anastomosis(es) + debarding of pulmonary arteries + art-repair, Hypoplastic let heart syndrome hybrid approach (transcatheter & surgery) 'stage 2*: aortopulmonary amalgamation + superior cavopulmonary anastomosis(es) + debarding of pulmonary arteries + ar	12 65 23 12 65 14 12 65 48 12 65 548 12 65 506 12 65 506 12 65 506 12 65 506 12 65 507 12 65 689 12 65 689 12 65 682 12 65 682 12 65 682 12 65 682 12 65 682 12 65 682 12 65 600 12 65 600 12 65 600 12 65 600 12 65 600 12 65 600 12 65 000	Pectus repair Thoracic and or mediastinal procedure, Other Mediastinal procedure Mediastinal exploration Sternotomy wound drainage Pleural procedure, Other Pleural procedure Postoperative tracheostomy Tracheal procedure Postoperative tracheostomy Tracheal procedure Postoperative tracheostomy Tracheal procedure Usung procedure, Other Lung procedure, Other Miscellaneous procedure, Other Miscellaneou
Debridement of chest wall incision, Arterior chest wall (sectus) repair, Pectus excavatum repair, Mediastiral procedure, Mediastiral procedure, Peurofore periodicum, Peurofore, Peurofore periodicum, Peurofore, Pe	12.65.23 12.65.14 12.65.548 12.65.06 12.65.06 12.65.06 12.65.06 12.65.89 12.65.89 12.65.82 12.65.82 12.64.00 12.64.20 12.64.20 12.64.20 12.64.20 12.64.00 12.64.20 12.66.00 12.66.01 12.66.01 12.66.01 12.66.01 12.66.01 12.60.01 12.80.00 12.80.01 12.80.01 12.32.99 12.80.01 12.32.99 12.80.01 12.32.99 12.80.01 12.32.99 12.80.03 12.33.53	Pectas repair Mediastinal procedure Mediastinal procedure Mediastinal procedure Mediastinal epicration Stermbinny wound drainage Pieural procedure, Other Pieural procedure Postoperative tracheostomy Tracheal procedure Postoperative tracheostomy Tracheal procedure Lung procedure, Other Horacia and-or mediastinal procedure, Other Thoracia and-or mediastinal procedure, Other Miscellaneous procedure, Other Non-cardiovascular, Non-thoracic procedure on cardiac patient with cardiac Cardiac procedure, Other Steri placement VSD repair, Davice Cardiac procedure, Other Caropulmonary anastomosis(es) + PA Debanding + Aortic arch repair (Norwood (Stage 1) + Superior Caropulmonary anastomosis(es) + PA Debanding + Without aortic arch repair
Debridement of chest wall incision, Arterior chest wall (socks) inpair, Pectas occaratem repair, Pectas occaratem repair, Pectas occaratem repair, Sternal wire removal from previous stemotomy, Mediasiral procedure, Mediasiral procedure, Mediasiral procedure, Insertion of pleural bub drain, Perural procedure, Perural procedure, Parietal pleural company, Open excision of pleural solon, Perural procedure, Insertion of pleural bub drain, Insertion	12 65 23 12 65 13 12 65 14 12 65 5 48 12 65 5 48 12 65 5 06 12 65 5 06 12 65 5 06 12 65 5 06 12 65 5 06 12 65 5 07 12 65 6 89 12 65 6 89 12 65 6 82 12 65 6 82 12 65 6 82 12 65 6 82 12 65 6 82 12 65 6 82 12 65 6 96 12 65 00 12 65	Pectus repair Thoracic and or mediastinal procedure, Other Mediastinal procedure Mediastinal procedure Mediastinal procedure, Other Pleural procedure Postoperative tracheostomy Tracheal procedure Postoperative tracheostomy Tracheal procedure Postoperative tracheostomy Tracheal procedure Usung procedure, Other Lung procedure, Other Postoperative tracheostomy Thoracic and or mediastinal procedure, Other Thoracic and or mediastinal procedure, Other Miscollaneous procedure, Other Mis
Debridement of chest wall incision, Arterior chest wall (sectus) impair, Pectus exanabam repair, Sternal wire removal from provious stemotomy, Mediastiral procedure, Mediastiral procedure, Insertion of mediastiral babe drain, Pleural procedure, Insertion of pleural babe drain, Pleural procedure, Insertion of pleural babe drain, Pleural procedure, Insertion of pleural base drain, Insertion of pleural base drai	12 65 23 12 65 14 12 65 48 12 65 548 12 65 506 12 65 506 12 65 506 12 65 506 12 65 507 12 65 689 12 65 689 12 65 682 12 65 682 12 65 682 12 65 682 12 65 682 12 65 682 12 65 686 12 65 607 12 65 607 12 65 607 12 65 607 12 65 007	Pectus repair Mediasiral procedure Mediasiral procedure Mediasiral exploration Starnotomy wound drainage Pleural procedure, Other Pleural procedure Postoperative tracheostomy Tracheal procedure Postoperative tracheostomy Tracheal procedure Postoperative tracheostomy Tracheal procedure, Other Lung procedure, Other Miscolalenacus procedure, Other Miscolalena
Debridement of chest wall incision, Arterior chest wall (section) inpair, Pectae occavatum repair, Mediastiral procedure, Mediastiral procedure, Insertion of inediastiral stude drain, Pieurologie,	12.65.23 12.65.14 12.65.48 12.65.548 12.65.05 12.65.05 12.65.05 12.65.05 12.65.89 12.65.89 12.65.82 12.65.82 12.65.82 12.64.00 12.64.08 12.64.20 12.64.00 12.64.00 12.64.00 12.64.00 12.64.00 12.64.00 12.64.00 12.65.00 12.66.00 12.66.00 12.66.00 12.66.00 12.66.00 12.68.00 12	Pectus repair Mediastinal procedure Mediastinal procedure Mediastinal exploration Sternborn wound drainage Pleural procedure, Other Pleural procedure Pestoperative tacheostomy Tracheal procedure Postoperative tacheostomy Tracheal procedure Lung procedure, Other Miscolalmous procedure, Other Non-cardiovascular, Non-thoracic procedure on cardiac patient with cardiac Cardiac procedure, Other Stert placement VSD repair, Device Cardiac procedure, Other Cardiac procedure, Other Stert placement VSD repair, Device Cardiac procedure, Other Cardiovascular, Non-thoracic procedure on cardiac patient with cardiac Cardiovascular catheterization procedure Cardiovascular catheterization procedure, Diagnostic Obtained Cardiovascular catheterization procedure, Diagnostic Obtained
Debridement of chest wall incision, Arterior chest wall piculis prepair, Pectus exawatum repair, Pectus exawatum repair, Pectus exawatum repair, Pectus exawatum repair, Mediastiral procedure, Mediastiral procedure, Mediastiral procedure, Mediastiral procedure, Mediastiral procedure, Insertion of plural tabe drain, Pieural procedure, Insertion of plural be drain, Pieural procedure, Insertion of plural be drain, Pieural procedure, Insertion of plural be drain, Pieural procedure, Insertion of plural belon, Bronchoscopic removal of foreign body, Tracheal procedure, Insertion of procedure on cardiac patient under cardiac anaesthesia, Insertion of procedure of procedure on cardiac patient under cardiac anaesthesia, Insertion of procedure on procedure, Insertion of procedure, and procedure, Insertion of procedure, and procedure, and procedure, Insertion of procedure, and procedure, a	12 55 23 12 55 13 12 55 14 12 55 548 12 55 56 12 55 505 12 55 505 12 55 505 12 55 505 12 55 505 12 55 507 12 55 589 12 52 589 12 52 58 52 12 52 580 12 54 600 12 54 600 12 54 600 12 54 600 12 55 60	Pectus repair Mediastiral procedure Mediastiral exploration Sternborny wound drainage Pieural procedure, Other Pieural procedure Pestoperative tacheostomy Tracheal procedure Postoperative tacheostomy Tracheal procedure Lung procedure, Other Phoracic and-or mediastinal procedure, Other Thoracic and-or mediastinal procedure, Other Miscellaneous procedure, Other Non-cardiovascular, Non-thoracic procedure on cardiac patient with cardiac Cardiac procedure, Other Non-cardiovascular, Non-thoracic procedure on cardiac patient with cardiac Cardiac procedure, Other Non-cardiovascular, Non-thoracic procedure on cardiac patient with cardiac Cardiac procedure, Other Non-cardiovascular, Non-thoracic procedure on cardiac patient with cardiac Cardiovascular procedure, Other Non-cardiovascular, Non-thoracic procedure on cardiac patient with cardiac Cardiovascular cardivaterization procedure, Therapeutic Cardiovascular cardivaterization procedure, Diagnostic Obbained Cardiovascular cardivaterization procedure, Diagnostic, Hemodynamic alteration Obbained Cardiovascular cardivaterization procedure, Diagnostic, Hemodynamic alteration Obbained
Debridement of chest wall proculty repair, Pectus examaturin repair, Pectus examaturin repair, Pectus examaturin repair, Sternal wire removal from previous stemotomy, Mediastral procedure, Mediastral procedure, Mediastral procedure, Mediastral procedure, Mediastral procedure, Iteration of pibural bed drain, Peturologies, Petural procedure, Iteration of pibural bed drain, Peturologies, Particul piburactomy, Opine nozioni or pibural bed orin, Peturologies, Particul piburactomy, Opine nozioni or pibural besion, Bronotiscopy, Lung procedure, Lung phospy procedure, Lung phospy procedure, Lung phospy procedure, Lung phospy procedure, Lung phosping procedure, Lung phosping procedure, Presumanicolomy, Presumanicolo	12 65 23 12 65 13 12 65 14 12 65 54 8 12 65 54 8 12 65 50 6 12 65 50 6 12 65 50 6 12 65 50 6 12 65 50 6 12 65 50 7 12 65 68 9 12 65 68 9 12 65 68 9 12 65 68 9 12 65 68 9 12 65 68 9 12 65 68 9 12 65 68 9 12 65 60 7 12 64 00 12 64 00 12 65	Pectus repair Noracic and or mediastinal procedure, Other Mediastinal procedure Mediastinal exploration Sternotomy wound drainage Pleural procedure, Other Lung procedure, Other Pleural procedure, Other Pleural procedure, Other Miscolalneous cardialneous procedure, Other Miscolalneous procedure, Other Miscolalneous procedure, Other Miscolalneous procedure, Other Miscolalneous procedure, Other Mis
Debridement of chest wall incision, Arterior chest wall piculis pepair, Pectus exexuaturi repair, Pectus exexuaturi repair, Pectus exexuaturi repair, Sternal wive ramout from previous stemotomy, Modiastiral procedure, Modiastiral procedure, Modiastiral procedure, Modiastiral procedure, Modiastiral procedure, Insertion of mediastiral tub drain, Perural procedure, Insertion of plaural tube drain, Insertion of plaural tube drain, Perural procedure, Insertion of plaural tube drain, Insertion o	12 65.23 12 65.14 12 65.48 12 65.48 12 65.54 12 65.50 12 65.50 12 65.50 12 65.50 12 65.50 12 65.50 12 65.50 12 65.50 12 65.50 12 65.60 12 65.60 12 65.60 12 65.72 12 64.08 12 64.08 12 64.20 12 64.20 12 64.20 12 64.20 12 65.00 12 25.06 12 65.00 12 25.00 12 26.00 12 25.00 12	Pectus repair Mediastinal procedure Mediastinal procedure Mediastinal procedure, Other Petural procedure, Other Pleural procedure, Other Lung procedure, Other Postal procedure, Other Postal procedure, Other Postal procedure, Other Postal procedure, Other Miscellaneous procedure, Other Miscellane
Debridement of chest wall incitosion, Arterior chest wall ipectus; prepair, Pectus exavatum repair, Pectus exavatum repair, Pectus exavatum repair, Sternal wire removal from previous stemotomy, Mediasirial procedure, Mediastrial procedure, Mediastrial procedure, Mediastrial procedure, Iteration of plural but drain, Peurorioses, Parietal plaurectomy, Open excision of plural but drain, Peurorioses, Parietal plaurectomy, Open excision of plural seison, Open excision of plural seison, Demonstration of plural seison, Tracheostrial reconstruction procedure, Iteration of plural seison, Tracheostrial reconstruction procedure, Iteration of plural seison, Iteration of plural seison, Tracheostrial reconstruction procedure, Iteration of plural seison, Iteratio	12 55 23 12 55 13 12 55 14 12 55 548 12 55 56 14 12 55 505 12 55 505 12 55 505 12 55 505 12 55 505 12 55 507 12 55 509 12 55 589 12 55 589 12 55 582 12 55 5	Pectus repair Mediastiral procedure Mediastiral exploration Sternborny wound drainage Pleural procedure, Other Pleural procedure Pestoperative tracheostomy Tracheal procedure Pestoperative tracheostomy Tracheal procedure Uung procedure, Other Lung procedure, Other Miscellareous procedure, Other Non-cardiovascular, Non-thoracic procedure on cardiac patient with cardiac Cardiac procedure, Other Non-cardiovascular, Non-thoracic procedure on cardiac patient with cardiac Cardiac procedure, Other Non-cardiovascular, Non-thoracic procedure on cardiac patient with cardiac Cardiac procedure, Other Non-cardiovascular, Non-thoracic procedure on cardiac patient with cardiac Cardiac procedure, Other Non-cardiovascular, Non-thoracic procedure on cardiac patient with cardiac Cardiovascular catheterization procedure, Disagnostic Cardiovascular catheterization procedure, Therapeutic Cardiovascular catheterization procedure, Diagnostic, Hemodynamic alteration bobtained

Diagnostic cardiovascular catheterisation procedure with electrophysiological alteration (challenge). Catheterisation study for pulmonary hypertension evaluation, Transcatheter procedure undertaken with rargetic resonance imaging guidance, Transcatheter procedure undertaken with magnetic resonance imaging guidance, Transcatheter procedure undertaken with x-ray & magnetic resonance imaging guidance, Transcatheter intervention with intracardiae echo guidance (ICE), Catheterisation vansepela approach with transceptal procture, Transcatherie ritervention device or foreign body, Repeat cardiovacquidar catheter procedure for residual or recurrent lesion,	13.05.08 13.05.13 13.05.14 13.05.15 13.05.16 13.01.23 12.45.01 12.45.04 12.45.06					Cardiovascular catheterization procedure, Diagnostic, Electrophysiology alteration Cardiovascular catheterization procedure, Diagnostic Cardiovascular catheterization procedure Cardiovascular catheterization procedure. Therapeutic Cardiovascular catheterization procedure, Therapeutic
Balloon dilation of pulmonary vein or pathway, Balloon dilation of pulmonary vein compatible of the state of pulmonary vein to Balloon dilation of pulmonary vein using cutting balloon, Stert placement in pulmonary vein or pathway, Stert placement in pulmonary vein with the state of the stat	12.00.24 12.00.21 12.00.23 12.00.25 12.00.22 12.00.43 12.00.44 12.00.36					Cardiovascular catheterization procedure, Therapeutic, Balloon dilation Cardiovascular catheterization procedure, Therapeutic, Balloon dilation Cardiovascular catheterization procedure, Therapeutic, Balloon dilation Cardiovascular catheterization procedure, Therapeutic, Stert insertion Cardiovascular catheterization procedure, Therapeutic, Stert insertion Cardiovascular catheterization procedure, Therapeutic, Balloon dilation Cardiovascular catheterization procedure, Therapeutic, Stert insertion Cardiovascular catheterization procedure, Therapeutic, Stert insertion Cardiovascular catheterization procedure, Therapeutic, Stert insertion
Balloon atrial septostomy by pull back (Rashkind), Blade atrial septostomy, Transuminal lenestration of atrial septum-turnel, Transuminal lenestration communication creation, Interatial communication obsure with transuminal device, Interatial communication obsure with transuminal device, Patent foramen ovale (PFC) obsure with transluminal device, Right atrial septum-turnel fenestration obsure with transluminal device, Transluminal let fairl algoridance occusion with device,	12.01.41 12.01.44 12.01.47 12.30.74 12.01.98 12.01.06 12.01.07 12.30.21 12.38.25					Cardiovascular catheterization procedure, Therapeutic, Septostomy Cardiovascular catheterization procedure, Therapeutic, Septostomy interchamber and/or intervessel communication) interchamber and/or intervessel communication) ASD repair, Device ASD epair, Device ASD repair, Device Cardiovascular catheterization procedure, Therapeutic, Device implantation Cardiovascular catheterization procedure, Therapeutic, Device implantation Cardiovascular catheterization procedure, Therapeutic, Device implantation
Balloon dilation of mitral valve, Transluminal prosthetic valve leak closure using device, Transluminal mital valve repair,	12.03.10 12.45.19 12.03.97					Cardiovascular catheterization procedure, Therapeutic, Balloon valvotomy Cardiovascular catheterization procedure, Therapeutic, Device implantation Cardiovascular catheterization procedure, Therapeutic
Transluminal right ventricular blopsy, Balbon dilation of right ventricular outflow tract, Stent placement in right ventricular outflow tract, Balbon dilation of left ventricular outflow tract, Balbon dilation of left ventricular outflow tract, Ventricular septal defect (VSD) closure with transluminal device, Transluminal insensation of ventricular septal defect (VSD) patch, Transluminal interventricular communication creation,	12.06.25 12.06.05 12.06.18 12.07.07 12.08.07 12.08.20 12.08.65					Cardiovascular catheterization procedure, Therapeutic Cardiovascular catheterization procedure, Therapeutic, Balloon dilation Cardiovascular catheterization procedure, Therapeutic, Stert insertion Cardiovascular catheterization procedure, Therapeutic, Stert insertion Cardiovascular catheterization procedure, Therapeutic, Balloon dilation VSD repair, Device interchamber and/or intervessel communication) interchamber and/or intervessel communication)
Balloon dilation of pulmonary valve, Pulmonary valvar transluminal perforation & dilation, Balloon dilation of active valve, Aortic valvar transluminal perforation & dilation, Transluminal pulmonary valvar insention with stent mounted valve, Transluminal aortic valvar insention with stent mounted valve, Balloon dilation of pulmonary view with cutting balloon, Stent placement in pulmonary view, Balloon dilation of pulmonary valve, Balloon dilation of pitm pulmonary valve, Balloon dilation of pitm pulmonary valve, Balloon dilation of pitm pulmonary valvey, Balloon dilation of pitm pulmonary valvey, Stent placement in right pulmonary artery, Stent placement in right pulmonary artery, Pulmonary trunk flow restriction using transcatheter implanted device, Transluminal embolictorny from pulmonary true,	12.13.05 12.13.09 12.16.05 12.16.25 12.13.51 12.13.81 12.15.53 12.15.50 12.14.05 12.15.04 12.15.13 12.15.14 12.15.14					Cardiovascular catheterization procedure, Therapeutic, Balloon valvotomy interchamber and/or intervessel communication) Cardiovascular catheterization procedure, Therapeutic, Balloon valvotomy interchamber and/or intervessel communication) of valve of valve Cardiovascular catheterization procedure, Therapeutic, Balloon dilation Cardiovascular catheterization procedure, Therapeutic, Salert insertion Cardiovascular catheterization procedure, Therapeutic, Salert insertion Cardiovascular catheterization procedure, Therapeutic, Stert insertion Cardiovascular catheterization procedure, Therapeutic Pulmorary embolectomy
Aortopulmonary window closure with transcatheter device, Aortic coarctation transluminal obstruction refet, Balboon dilation of native acritic coarctation-thypoplasia, Balboon dilation of native acritic coarctation-thypoplasia, Balboon dilation of native across coarctation, Steer placement at site of antive coarctation-thypoplasia, Steer placement at site of antive coarctation-thypoplasia, Steer placement at site of acritic coarctation-thypoplasia, Steer placement at site of acritic coarctation-thypoplasia, Steer placement in a tite of acritic reconstration, Thoracia corta areusyem transcatheter stert implantation, Steet placement in arterial duct (PDA), Arterial duct (PDA) closure with transluminal coil,	12.12.08 12.18.27 12.18.04 12.18.08 12.18.17 12.18.48 12.18.22 12.18.70 12.10.14 12.24.04 12.24.21					Cardiovascular catheterization procedure, Therapeutic, Device implantation Cardiovascular catheterization procedure, Therapeutic Cardiovascular catheterization procedure, Thrapeutic, Balloon dilation Cardiovascular catheterization procedure, Thrapeutic, Balloon dilation Cardiovascular catheterization procedure, Thrapeutic, Stert insertion PDA closure, Device PDA closure, Device PDA closure, Device
Transluminal procedure to systemic-to-pulmonary collateral artery (MAPCA(s)), Balloon dilation of systemic-to-pulmonary collateral artery (les) (MAPCA(s)), Stent placement in systemic-to-pulmonary collateral artery (MAPCA(s)), Transluminal occlusion of systemic-to-pulmonary collateral artery (MAPCA(s)) with coil-device, Arteriovenous fistulai occlusion, Venovenous collateral occlusion with device, Completion of total cavopulmonary connection (TCPC) using transcatheter inferior to superior caval vein covered stent,	12.25.19 12.25.72 12.25.62 12.25.65 12.25.02 12.70.08 12.30.60					Cardiovascular catheterization procedure, Therapeutic Cardiovascular catheterization procedure, Therapeutic, Balloon dilation Cardiovascular catheterization procedure, Therapeutic, Stert insertion Cardiovascular catheterization procedure, Therapeutic, Device implantation Cardiovascular catheterization procedure, Therapeutic, Coll implantation Cardiovascular catheterization procedure, Therapeutic, Device implantation completion
Balloon dilation of systemic-to-pulmonary arterial shurt, Coclusion of systemic-to-pulmonary arterial shurt by transluminal device-embolus, Balbon dilation of cardiac conduit, Sternt placement in cardiac conduit,	12.31.19 12.31.34 12.36.14 12.36.23					Cardiovascular catheterization procedure, Therapeutic, Balloon dilation Cardiovascular catheterization procedure, Therapeutic, Device implantation Cardiovascular catheterization procedure, Therapeutic, Balloon dilation Cardiovascular catheterization procedure, Therapeutic, Stert insertion
Pericardiocentesis: percutaneous transcatheter, Transluminal procedure for anthythmia, Transluminal ablation procedure for anthythmia, Transluminal acycabiation procedure for anthythmia, Transluminal radiofesquency ablation procedure for anthythmia, Transluminal procedure for atrial anthythmia, Transluminal procedure for retnicular anthythmia, Transluminal procedure for ventricular anthythmia, Transluminal ablation procedure with pulmorary vein exclusion, Automatic cardioverter & defibritation (CDD) transluminal implantation, Automatic cardioverter & defibritation (CDD) transluminal removal,	12.32.43 12.35.57 12.38.40 12.35.46 12.35.48 12.35.82 12.35.83 12.35.84 12.35.84 12.33					Pericardial drainage procedure Cardiovascular catheterization procedure, Therapeutic ablation ablation ablation ablation ablation ablation ablation ablation ablation (CD (AICD) (Matanata) implantation (CD (AICD) (Matanatic) implantable cardioverter delibrillator) procedure
Stert reditation. Stert placement, Stert placement, Balbon dilation, Balbon dilation of valve, Balbon dilation of valve, Transluminal device implantation, Transluminal frequeutic perforation to establish interchamber and	12.45.10 12.45.11 12.45.12 12.45.21 12.45.13 12.45.58 12.45.15 12.45.14 12.45.30					Cardiovascular catheterization procedure, Therapeutic, Stert re-dilation Cardiovascular catheterization procedure, Therapeutic, Stert insertion Cardiovascular catheterization procedure, Therapeutic, Salloon dilation Cardiovascular catheterization procedure, Therapeutic, Balloon valvotomy Cardiovascular catheterization procedure, Therapeutic, Device implantation interchamber and/or intervessel communication) of valve Cardiovascular catheterization procedure, Therapeutic, Coil implantation Cardiovascular catheterization procedure, Therapeutic
Procedure related complications	15.90.03					None
No postprocedural complications, Procedure related complication, Postprocedural related complication, Postprocedural complication Complication during period of anaesthetic care, Medication related complication or error, Complication related to echocardiographic procedure, Vascudar fire (access) related complication, Intraoperative death, Death within 30 days of procedure, Death within 30 days of procedure, Death attributable to complications (blowing premature birth, Death attributable to complications) following congenital cardiac procedure,	15.90.03 15.90.01 15.90.20 15.59.00 15.58.01 15.88.00 12.33.31 12.33.33 12.33.34 15.90.85 15.90.86	998.9 998.9 995.2 E858.9 E879.8 E876.9		T81.8 T81.8 T88.5 Y63.9 Y84.8 Y65.8		Other postoperative complication Intraoperative death
Cardiac arrest fulring procedure, Cardiac arrest following procedure, Postprocedural low cardiac output, Cardiopulmonal physiss complication, Postprocedural requirement for mechanical circulatory support, Myocardial infaction following procedure, Postprocedural Typovolaemia, Arrhythmia following procedure, Postprocedural Complete atrioventricular block, Procedure related complete atrioventricular block requiring temporary pacing, Procedure related complete atrioventricular block requiring temporary pacing, Procedure related complete atrioventricular block requiring permanent pacemaker system, Junctional despite tachycardia (His bundle): post-op, Postprocedural haemorrhage, Postprocedural haemorrhage requiring reoperation, Postprocedural haemorrhage, Postprocedural haemorrhage	15.00.01 15.00.02 15.00.03 15.77.00 15.00.09 15.00.05 15.00.30 15.60.02 11.06.17 11.06.32 11.04.12 15.02.00 15.02.03 15.02.03 15.02.03	997.1 997.1 997.1 996.1 997.1 998.0 997.1 997.1 997.1 997.1 998.1 998.1 286.9 283.1	410 E878.8 E878.8	T81.8 197.8 197.1 T82.8 197.8 197.8 197.8 144.2 144.2 197.1 T81.0 T81.0 D68.9	№ 1 № 9.9 Y83.8 Y83.8 Y83.8	Arrlythmia Postoperative cardiac arrest Postoperative wardiac output Ofter postoperative complication Ofter postoperative complication Postoperative mechanical circulatory support (IABP, VAD, ECMO, or CPS) Mybcardial infraction Ofter postoperative complication Postoperative arrlythmia Arrlythmia, Heart block, Acquired Postoperative complete AV block requiring temporary pacemaker Postoperative complete AV block requiring permanent pacemaker Postoperative bleeding Postoperative bleeding Ofter postoperative complication Ofter postoperative complication

General systemic complication of cardiac procedure, Multiple organ dysfunction syndrome (MODS),	15.80.00 15.80.16	998.9 998.9		T81.8 T81.8		Other postoperative complication Other postoperative complication
Postprocedural metabolic derangement,	15.80.01	277.9	E878.8	E88.9	Y83.8	Other postoperative complication
Postprocedural acidosis, Postprocedural septicaemia,	15.80.15 15.80.05	276.2 998.5	E878.8	E87.2 T81.4	Y83.8	Postoperative acidosis Postoperative septicemia
Capillary leak syndrome,	15.80.06	998.8		T81.8		Other postoperative complication
Systemic inflammatory response syndrome (SIRS),	15.80.19	998.0		T81.1		Other postoperative complication
Pulmonary and thoracic complications						
Respiratory complication after cardiac procedure,	15.80.20	997.3		J95.9		Other postoperative complication
Postprocedural requirement for mechanical respiratory support more than 7 days,	15.80.32	518.5		J95.3		days
Postprocedural requirement for reintubation, Postprocedural pulmonary infection,	15.80.33 15.80.21	518.5 997.3		J95.1 J95.8	J22	Postoperative respiratory insufficiency requiring reintubation Pneumonia
Postprocedural lung collapse (atelectasis),	15.80.31	518.0	E878.8	J98.1	Y83.8	Other postoperative complication
Residual pulmonary hypertension after relief of left to right shunt,	15.22.31	416.8	E878.8	127.8	Y83.8 Y83.8	Other postoperative complication
Postprocedural pulmonary hypertensive crises, Postprocedural pleural effusion,	15.80.22 15.80.50	416.8 511.9	E878.8 E878.8	127.8 J90	Y83.8	Postoperative pulmonary hypertension crises (PA pressure > systemic pressure) Pleural effusion
Postprocedural right pleural effusion,	15.80.51	511.9	E878.8	J90	Y83.8	Pleural effusion
Postprocedural left pleural effusion, Pleural effusion requiring drainage,	15.80.52 15.80.61	511.9 511.9	E878.8	J90 J90	Y83.8	Pleural effusion Pleural effusion requiring drainage
Postprocedural chylothorax,	15.80.55	457.8	E878.8	J94.0	Y83.8	Chylothorax
Postprocedural haemothorax,	15.80.56 15.80.62	998.1	E070 0	T81.0 J93.9	Y83.8	Pleural effusion Pneumothorax
Postprocedural pneumothorax, Postprocedural Acute Respiratory Distress Syndrome (ARDS),	15.80.29	512 518.5	E878.8	J80	103.0	Other postoperative complication
Postprocedural requirement for tracheostomy,	15.80.86	997.3		J95.3		Other postoperative complication
Postprocedural complication involving tracheo-bronchial tree, Postprocedural bronchial compression,	15.80.70 15.80.87	519.1 519.1	997.3 997.3	J98.0 J98.0	Y83.8 J95.8	Tracheal disease, Other Other postoperative complication
Complication following respiratory tract stent implantation,	16.50.20	519.8		J95.8		Other postoperative complication
Intraprocedural phrenic nerve injury (paralysed diaphragm), Intraprocedural recurrent laryngeal nerve injury (palsy),	15.80.90 15.80.93	519.4 352.3	998.2	J98.6 G52.2	T81.2	Phrenic nerve injury/paralyzed diaphragm Recurrent laryngeal nerve injury/paralyzed vocal cord
Postprocedural Homer's syndrome,	15.80.94	337.9	998.2	G90.2	T81.2	Other postoperative complication
Renal, gastrointestinal and neurological complications						
rienal, gustronitestinal and neurological complications						
Postprocedural renal failure,	15.82.00 15.82.06	997.5		N99.0 N99.0		Other postoperative complication Acute renal failure requiring temporary dialysis
Renal failure requiring temporary dialysis, Renal failure requiring permanent dialysis,	15.82.06 15.82.07	997.5 997.5		N99.0 N99.0		Acute renal failure requiring temporary dialysis Acute renal failure requiring permanent dialysis
Postprocedural gastrointestinal bleeding,	15.82.21	578.9	997.4	K92.2	Y83.8	Other postoperative complication
Postprocedural inability to sustain gastric feeding, Postprocedural feeding difficulties,	15.82.23 15.82.38	997.4 997.4		K91.8 K91.8		Other postoperative complication Other postoperative complication
Postprocedural intestinal obstruction,	15.82.28	997.4		K91.3		Other postoperative complication
Postprocedural necrotising enterocolitis,	15.82.30 15.82.29	997.4	K55.0	Y83.8 K65.0	Y83.8	Other postoperative complication Other postoperative complication
Postprocedural peritonitis, Pseudomembranous colitis,	15.82.29	567.9 8.4	997.4	A04.7		Other postoperative complication Other postoperative complication
Postprocedural protein losing enteropathy,	15.82.33	579.8	E878.8	K90.4	Y83.8	Other postoperative complication
Postprocedural hepatic impairment, Postprocedural acute pancreatitis,	15.82.43 15.82.47	997.4 577.0	997.4	K72.0 K85	Y83.8 Y83.8	Other postoperative complication Other postoperative complication
Neurological complication after cardiac procedure, Postprocedural new onset seizures	15.82.50 15.82.67	997.0 345.9	997.0	G97.9 G40.9	Y83.8	Other postoperative complication Postoperative new onset seizures
Postprocedural new onset serzures, Postprocedural generalised seizures,	15.82.51	345.9 345.1	997.0	G40.3	Y83.8	Postoperative new onset seizures
Postprocedural temporary neurological impairment,	15.82.53 15.82.57	997.0 997.0		G97.8 G97.8		Postoperative neurological deficit - transient Postoperative neurological deficit persisting at discharge
Postprocedural permanent neurological impairment, Postprocedural neurological impairment persisting at discharge,	15.82.68	997.0		G97.8 G97.8		Postoperative neurological deficit persisting at discharge Postoperative neurological deficit persisting at discharge
Postprocedural brain death,	15.82.64	997.0		G97.8		Other postoperative complication
Postprocedural cerebral abscess, Postprocedural cerebral abnormality on imaging,	15.82.66 15.82.81	324.0 997.0	997.0 793	G06.0 G97.8	Y83.8 R90.8	Other postoperative complication Other postoperative complication
Brain abscess,	14.03.40	324.0	795	G06.0	1130.0	
Wound and pericardial complications						
Would and pericardial complications						
Median stemotomy complication,	15.03.00	998.9		T81.9		Other postoperative complication
Infection of median stemotomy wound, Keloid-hypertrophic scar of median sternotomy wound,	15.03.03 15.03.15	998.5 701.4		T81.4 L91.0		Other postoperative complication Other postoperative complication
Dehiscence of median sternotomy wound,	15.03.08	998.3		T81.3		Sternal dehiscence
Lateral thoracotomy complication, Infection of lateral thoracotomy wound,	15.03.30 15.03.32	998.9 998.5		T81.9 T81.4		Other postoperative complication Other postoperative complication
Wound related complication,	15.67.38	998.9		T81.9		Other postoperative complication
Wound dehiscence, Wound infection,	15.03.51 15.03.50	998.3 998.9		T81.3 T81.4		Wound dehiscence Wound infection
Wound infection requiring surgical intervention,	15.67.41	998.9		T81.4		Wound infection
Mediastinitis,	15.03.52	519.2		J98.5		Mediastinitis
Postpericardiotomy syndrome,	10.08.11	429.4		197.0		Pericardial effusion
Pericardial effusion requiring drainage,	15.83.00	423.9		131.3		Pericardial effusion requiring drainage
Cardiac tamponade,	10.08.13	423.9		131.9		Pericardial effusion requiring drainage
Catheterisation and support device complications						
Cardina anthatarination agentination	15.50.00	998.9	E879.0	T81.9	Y84.0	Other postoperative complication
Cardiac catheterisation complication, Intramyocardial injection of contrast medium,	15.50.01	E870.6	E0/9.0	Y60.5	104.0	Other postoperative complication
Lost pulse after cardiac catheterisation,	15.50.11 15.24.20	997.2	E879.0	T81.7 197.8	Y84.0	Other postoperative complication Peripheral vascular, Other
Postprocedural femoral arterial complication, Perforation of cardiac chamber-vessel during cardiac catheterisation,	15.50.03	997.2 998.2	E870.6	T81.2	Y60.5	Other postoperative complication
Equipment problem during cardiac catheterisation,	15.50.30	996.1	E874.5	T82.5		Other postoperative complication
Embolisation of catheter introduced device, Complication involving device implantation,	15.50.37 15.50.60	996.7 996.1	E871.6 E874.5	T82.8 T82.5		Other postoperative complication Other postoperative complication
Complication involving stent,	15.50.70	996.7	E874.5	T82.8		Other postoperative complication
Failed attempt to implant coil-device during transcatheter intervention, Intracortic balloon pump (IABP) complication.	15.50.40 15.57.21	E874.5 996.1		T82.8 T82.9		Other postoperative complication Other postoperative complication
Extracorporeal Membrane Oxygenation (ECMO) circuit complication,	15.57.02	996.1		T82.9		Other postoperative complication
Ventricular assist device complication,	15.57.03	996.1		T82.9		Other postoperative complication
Fetal Specific Short List Codes						
r ctar opcome onort List oddes						
Fetal abnormality, horseased nuchal thickness	14.10.01 14.10.12	655.9 655.9		O35.9 O28.3		
Increased nuchal inickness, Intrauterine growth restriction (retardation),	14.10.12	764.9		P05.9		
Fetal fluid retention,	14.12.20	778.5		P83.3		
Fetal hydrops, Fetal heart failure,	14.10.02 14.10.98	778.0 655.9		P83.2 O28.3		
Fetal heart failure due to extracardiac disease,	14.10.99	655.9		028.3		
Twin-to-twin transfusion syndrome, Fetal arrhythmia,	14.10.11 14.10.06	762.3 768.2		P02.3 O35.8		
Fetal cardiomegaly,	14.10.95	655.9		028.3		
Abnormal fetal Cardiovascular Profile Score (Huhta),	14.13.52	655.9		O28.3		
Fetal infection,	14.05.41	771.8		P39.9		
Fetal cardiac abnormality not detected,	14.10.00					
Fetal echocardiographic examination,	13.01.01					
Satisfactory fetal cardiac images,	13.01.89					
hadequate fetal cardiac images, Transabdominal fetal echocardiographic examination,	13.01.90 13.01.25					
Transvaginal fetal echocardiographic examination,	13.01.26					
Fetal echocardiographic abnormality,	14.10.25	655.9		028.3		
Fetal structural heart abnormality,	14.10.60	655.9		O28.3		
Fetal echogenic focus ('golf ball'),	14.10.08 14.10.26	655.9		O28.3 O28.3		
Fetal venous Doppler flow(s) abnormal for gestational age, Fetal unexplained right heart dominance,	14.10.26	655.9 655.9		O28.3		
Fetal unexplained left heart dominance,	14.10.45	655.9		O28.3		
Fetal abnormal 4 chamber view, Fetal abnormal great arterial view,	14.10.52 14.10.53	655.9 655.9		O28.3 O28.3		
Fetal arterial Doppler flow(s) abnormal for gestational age,	14.11.40	655.9		O28.3		
Fetal aortic arch flow abnormal for gestational age,	14.11.41	655.9		O28.3 O28.3		
Fetal reversal of aortic arch blood flow for gestational age, Fetal ductal arch flow abnormal for gestational age,	14.11.42 14.11.43	655.9 655.9		O28.3 O28.3		
Fetal reversal of ductal arch blood flow for gestational age,	14.11.44	655.9		O28.3		
Fetal failure of right ventricular growth,	14.10.90	655.9		028.3		
Fetal progression of right ventricular outflow tract obstruction,	14.10.27	655.9		O28.3		
Fetal failure of left ventricular growth, Fetal progression of left ventricular outflow tract obstruction,	14.10.91 14.10.28	655.9 655.9		O28.3 O28.3		
Fetal heart muscle abnormality,	14.11.80	425.4		142.9		
Fetal cardiomyopathy,	14.11.81	425.4		I42.9 I51.8		
Fetal ventricular dysfunction,	14.11.87	429.8		b.1 ca		

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Sportaneous abortion-miscarriage (under 24 wks), Stillbirth (over 24 wks), Termination of pregnancy procedure, Termination of pregnancy (with respect to fetus), In utero death, Liveborn, Selective feticide in multiple pregnancy,	14.10.35 761.8 14.10.36 779.9 14.10.37 635 14.10.38 779.9 14.10.18 779.9 14.10.73 779.8	9 P95 O04 6 P96.4 9 O36.4	Miscellaneous procedure, Other Miscellaneous procedure, Other
Fetal interventions			
Fetal procedure, Division of placental communicating vessels in twin-to-twin transfusion syndrome by laser coagulation, Fetal branshuminal catheter procedure, Fetal balloon primorary valvolomy, Fetal balloon aorito valvolomy, Fetal balloon aorito valvolomy, Fetal balloon aorito valvolomy, Fetal balloon atrial septostomy, Fetal balloon atrial septostomy,	12.45.90 12.45.91 12.45.70 12.45.73 12.45.73 12.45.75 12.45.76		Miscellaneous procedure, Other Miscellaneous procedure, Other Cardiac procedure, Other Balcon dilation Balcon dilation Pericardial drainage procedure Balcon dilation
Fetal intervention complications			
Fetal intervention complication, Preterm delivery immediately following fetal intervention, Failed fetal procedure, Fetal death following fetal cardiac procedure,	15.50.80 15.50.81 15.50.83 15.50.86		Other postoperative complication Other postoperative complication Other postoperative complication Other postoperative complication

Appendix - EPCC to STS/EACTS boxed terms

Each STS/EACTS term requires two or more EPCC terms to be equivalent
Note that subcategories of EPCC item will also map to single STS/EACTS item: e.g. TGA+ all types of VSD will map to
TGA, VSD

Diagnostic combined terms

Functionally univentricular heart, Visceral heterolaxy (abnormal arrangement thoraco-abdominal organs),	01.01.22 03.01.02	746.9 746.9	Q20.9 Q20.9	Single ventricle, Heterotaxia syndrome
Functionally univentricular heart, Right isomerism (asplenia),	01.01.22 03.01.04	746.9 746.8	Q20.9 Q20.6	Single ventricle, Heterotaxia syndrome
Functionally univentricular heart, Left isomerism ('polyeplenia'),	01.01.22 03.01.05	746.9 746.8	Q20.9 Q20.6	Single ventricle, Heterotaxia syndrome
Mitral atresia, Functionally univentrioular heart,	06.02.01 01.01.22	746.8 746.9	Q23.2 Q20.9	Single vertricle, Mitral atresia
Tricuspid atresia, Functionally univentricular heart,	06.01.01 01.01.22	746.1 746.9	Q22.4 Q20.9	Single ventricle, Tricuspid altresia
AVSD with ventricular imbalance, Functionally univentricular heart,	06.07.26 01.01.22	745.6 746.9	Q21.2 Q20.9	Single ventricle, Unbalanced AV Canal
Functionally univentricular heart, Totally anomalous pulmonary venous connection,	01.01.22 04.08.05	746.9 747.4	Q20.9 Q26.2	Single ventricle + Total anomalous pulmonary venous connection (TAPVC)
Complete transposition of great arteries (IVS), LV outflow tract obstruction,	01.01.02 07.09.01	745.1 746.8	Q20.3 Q24.8	TGA, WS - LVOTO
Discordant VA connections (TGA), VSD,	01.05.01 07.10.00	745.1 745.4	Q20.3 Q21.0	TGA, VSD
Discordant VA connections (TGA), VSD, LV outflow tract obstruction,	01.05.01 07.10.00 07.09.01	745.1 745.4 746.8	Q20.3 Q21.0 Q24.8	TGA, VSD - LVOTO
Double outlet right ventricle, Attriovertricular septal defect,	01.01.04 06.06.00	746.8 745.6	Q20.1 Q21.2	DORV + AVSD (AV canal)
Tricuspid regurgitation, Tricuspid sternosis,	06.01.91 06.01.92	746.8 746.1	Q22.8 Q22.4	Tricuspid regurgitation and tricuspid stenosis
Mitral regurgitation, Mitral stenosis,	06.02.91 06.02.92	746.6 746.5	Q23.3 Q23.2	Mitral regurgitation and stenosis
Pulmonary sterosis, Pulmonary regurgitation,	09.05.92 09.05.91	746.0 746.0	Q22.1 Q22.2	Pulmonary insufficiency and pulmonary stenosis
Supravahar pułmonary trurk stenosis, Pułmonary trurk hypoplasia,	09.07.13 09.07.11	747.3 747.3	Q25.6 Q25.7	Pulmonary artery stenosis (Hypoplasia), Main (Trunk)
Aortic regurgitation, Aortic stenosis,	09.15.91 09.15.92	746.4 746.3	Q23.1 Q23.0	Aortic insufficiency + aortic stenosis
Aortic regurgitation, Mitral regurgitation,	09.15.91 06.02.91	746.4 746.6	Q23.1 Q23.3	Aortic insufficiency + mitral regurgitation
Aortic regurgitation, Mitral regurgitation, Mitral stenosis,	09.15.91 06.02.91 06.02.92	746.4 746.6 746.5	Q23.1 Q23.3 Q23.2	Aortic insufficiency + Mitral regurgitation and mitral stenosis
Aortic regurgitation, Mitral stenosis,	09.15.91 06.02.92	746.4 746.5	Q23.1 Q23.2	Aortic insufficiency + mitral stenosis
Aortic regurgitation, Aortic stenosis, Mitral regurgitation,	09.15.91 09.15.92 06.02.91	746.4 746.3 746.6	Q23.1 Q23.0 Q23.3	Aortic insufficiency and aortic stenosis + mitral regurgitation
Aortic regurgitation, Aortic stenosis, Mitral regurgitation, Mitral stenosis,	09.15.91 09.15.92 06.02.91 06.02.92	746.4 746.3 746.6 746.5	Q23.1 Q23.0 Q23.3 Q23.2	Aortic insufficiency and aortic stenosis + Mitral regurgitation and mitral stenosis
Aortic regurgitation, Aortic istrocis, Mitral sterocis,	09.15.91 09.15.92 06.02.92	746.4 746.3 746.5	Q23.1 Q23.0 Q23.2	Aortic insufficiency and aortic stenosis + mitral stenosis
Aortic stenosis, Mitral regurgitation,	09.15.92 06.02.91	746.3 746.6	Q23.0 Q23.3	Aortic stenosis and mitral regurgitation
Aortic stenosis, Mitral regurgitation, Mitral stenosis,	09.15.92 06.02.91 06.02.92	746.3 746.6 746.5	Q23.0 Q23.3 Q23.2	Aortic stenosis + Mitral regurgitation and mitral stenosis
Aortic stenosis, Mitral stenosis,	09.15.92 06.02.92	746.3 746.5	Q23.0 Q23.2	Aortic stenosis + mitral stenosis
Aortic valvar abnormality, Mitral valvar abnormality,	09.15.00 06.02.00	746.9 746.9	Q23.9 Q23.9	Aortic valve, Other + Mitral valve, Other
Pulmonary atresia + intact vertricular septum, Coronary atresia abroomality,	01.01.07 09.46.00	746.0 746.8	Q22.0 Q24.5	Pulmonary atresia, NS + Coronary artery anomalies
VSD, Aortic arch hypoplasia (tubular),	07.10.00 09.29.11	745.4 747.2	Q21.0 Q25.4	VSD + Aortic arch hypoplasia
VSD, Acritic coarcitation,	07.10.00 09.29.01	745.4 747.1	Q21.0 Q25.1	VSD + Coarclation of aorta

Congenially corrected transposition of great arteries (discordant AV & VA connections), Intact ventricular septum,	01.01.03 07.21.00	745.1 nc	Q20.5 nc	Congenitally corrected TGA, IVS
Congenitally corrected transposition of great arteries (discordant AV & VA connections), tract ventricular septum, Left ventricular outflow tract obstruction,	01.01.03 07.21.00 07.09.01	745.1 nc 746.8	Q20.5 nc Q24.8	Congenitally corrected TGA, IVS-LVOTO
Congenitally corrected transposition of great arteries (discordant AV & VA connections), VSD,	01.01.03 07.10.00	745.1 745.4	Q20.5 Q21.0	Congenitally corrected TGA, VSD
Congenitally corrected transposition of great arteries (discordant AV & VA connections), VSD, Left ventricular outflow tract obstruction,	01.01.03 07.10.00 07.09.01	745.1 745.4 746.8	Q20.5 Q21.0 Q24.8	Congenitally corrected TGA, VSD-LVOTO
Herrupide acritic arch, VSD,	09.29.31 07.10.00	747.1 745.4	Q25.4 Q21.0	Interrupted aortic arch + VSD
Interrupted aorlic arch,	09.29.31 09.04.01	747.1 745.0	Q25.4 Q21.4	Interrupted aortic arch + AP window (aortopulmonary window)
Aortopulmonary window, Common arterial trurk (truncus arteriosus),	09.01.01 09.29.31	745.0	Q20.0 Q25.4	Truncus arteriosus + Interrupted aortic arch
hterrupled aortic arch, Tetralogy of Falot,	01.01.01	747.1	Q21.3	TOF, Pulmonary stenosis Problem with mapping as pulmonary stenosis always a part of TOF in definitions
Pulmonary sterosis,	09.05.92	746.0	Q22.1	so suspect coders will not know which to use.
Procedural combined terms VSD closure,	12.08.01	7		VSD repair + ASD repair
ASD closure, VSD closure,	12.01.01	<u>]</u> =		VSD repair + PA debanding
Pulmonary trunk band removal (de-band),	12.14.03	_		
Mitral valvar replacement, Aortic valvar replacement,	12.03.11 12.16.21]		Valve replacement, Mitral (MVR) + Valve replacement, Aortic (AVR)
Aortic valve repair converted to aortic valvar replacement, Ross procedure: aortic valve or root replacement with pulmonary autograft & pulmonary valvar replacement,	12.16.97 12.16.30			Valudoplasty converted to valve replacement in the same operation, Aortic – with Ross procedure
Aortic valve repair converted to aortic valvar replacement, Ross-Komo procedure,	12.16.97 12.16.62			Valvuloplasty converted to valve replacement in the same operation, Aortic – with Ross-Konno procedure
Tetralogy of Falot repair, Transalrial approach,	12.26.01 12.08.11	- 1		TOF repair, No ventriculotomy
Tetralogy of Falot repair with transannular patch, Trans-RV approach,	12.26.13 12.08.12	- 1		TOF repair, Ventriculotomy, Transanular patch
Tetralogy of Falot repair without transamular patch, Trans-RV approach,	12.26.20 12.08.12	<u>-</u> 1		TOF repair, Ventriculotomy, Non-transanular patch
Tetralogy of Faltor tepair, RV to pulmonary artery conduit construction,	12.26.01 12.36.01			TOF repair, RV-PA conduit
Arterial switch procedure, VSD dosure,	12.29.21 12.08.01	- 1		Arterial switch operation (ASO) and VSD repair
Arterial switch procedure,	12.29.21 12.18.30	_ 1		Arterial switch procedure + Aortic arch repair
Aortic arch repair, Arterial switch procedure,	12.29.21	- -		Arterial switch procedure and VSD repair + Aortic arch repair
VSD closure, Aortic arch repair,	12.08.01 12.18.30	<u></u>		
Congenitally corrected TGA repair, VSD closure,	12.27.46 12.08.01	_		Congenitally corrected TGA repair, VSD closure
Congenitally corrected TGA repair, VSD closure, LV to pulmonary artery conduit construction,	12.27.46 12.08.01 12.36.02			Congenitally corrected TGA repair, VSD closure and LV to PA conduit
Superior caval vein to pulmonary artery anastomosis, Astroventricular valvar repair,	12.31.72 12.90.01			Superior cavopulmonary anastomosis(es) (Glenn or HemiFortan) + Atrioventricular valvuloplasty
Superior caval vein to pulmonary artery anastomosis, Pulmonary arterioplastyl reconstruction,	12.31.72 12.14.20]		Superior Cavopulmonary anastomosis(es) + PA reconstruction
Total cavopulmonary corn (TCPC) with lateral atrial turnel, Fontan-type connection without fenestration,	12.30.51 12.30.28	7		Fontan, TCPC, Lateral tunnel, Non-fenestrated
Total cavopulmonary com (TCPC) using extracardiac IVC-PA conduit,	12.30.54	_ 1		Fontan, TCPC, External conduit, Non-fenestrated
Fontan-type connection without fenestration, Fontan type procedure,	12.30.28	- 7		Fontan + Atrioventricular valvuloptasty
Atrioventricular valvar repair, Coronary arterial bypass graft (CABG) procedure,	12.90.01	<u>]</u>]		Coronary artery bypass + Valve replacement, Aortic (AVR)
Aortic valvar replacement,	12.16.21	_ ¬		Coronary artery bypass + Valve replacement, Aortic (AVR) + Valve replacement,
Coronary arterial bypass graft (CABG) procedure, Aortic valvar replacement, Mitral valvar replacement,	12.23.08 12.16.21 12.03.11			Mitral (MVR)
Coronary arterial bypass graft (CABG) procedure, Aortic valvar replacement, Mitral battet (valvoplasty) procedure,	12.23.08 12.16.21 12.03.03			Coronary artery bypass + Valve replacement, Aortic (AVR) + Valvuloplasty, Mitral
Coronary arterial bypass graft (CABG) procedure, Mitral valvar replacement,	12.23.08 12.03.11]		Coronary artery bypass + Valve replacement, Mitral (MVR)
Coronary arterial bypass graft (CABG) procedure, Mitral leaflet (valvoplasty) procedure,	12.23.08 12.03.03]		Coronary artery bypass + Valvuloplasty, Mitral
Coarctation / hypoplasia of aorta repair, VSD closure,	12.18.00 12.08.01	- 1		Coarctation repair + VSD repair
Aortic arch repair, VSD closure,	12.18.30 12.08.01	ī		Aortic arch repair + VSD repair
Merrupted aortic arch repair, Aortopulmonary window closure,	12.21.00 12.12.01	<u>-</u>]		Interrupted aortic arch repair + AP window repair
Mustard procedure (atrial inversion), Pulmonary truk band removal (de-band),	12.29.02 12.14.03	- 		Mustard + PA debanding
Mustard procedure, datal inversion), VSD closure,	12.29.02 12.08.01	- 1		Mustard + VSD repair
VSU cosure, Pulmorary trink band (PA band), Systemic-to-pulmorary arterial shurt procedure,	12.08.01 12.14.02 12.31.30	- 1		PA Banding (PAB) + Shunt, Systemic to pulmonary
Rastelli procedure: LV to Ao via VSD & RV to pulm trunk conduit,	12.29.11			Rastelli + VSD creation/enlargement
VSD enlargement/ creation, REV procedure: LV to Ao via VSD & direct RV-PA anast (Lecompte),	12.08.06	_ 7		REV + VSD creation/enlargement
VSD enlargement/ creation,	12.08.06	J		

Senning procedure (atrial inversion),	12.29.01
Pulmonary trunk band removal (de-band),	12.14.03
Senning procedure (atrial inversion),	12.29.01
VSD closure,	12.08.01
Hypoplastic left heart syndrome hybrid approach (transcatheter & surgery): stage 1,	12.20.20
Application of right & left pulmonary arterial bands,	12.14.19

Senning + PA debanding

Senning + VSD repair

Hybrid Approach "Stage 1", Application of RPA & LPA bands

Hybrid Approach "Stage 1", Stent placement in arterial duct (PDA)