

**The Society of Thoracic Surgeons
Adult Cardiac Surgery Database V4.20.2
Congenital Diagnoses And Procedures Lists
April 10, 2020**



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Septal Defects	ASD	<input type="checkbox"/> 10=PFO	<input type="checkbox"/>
		<input type="checkbox"/> 20= ASD, Secundum	<input type="checkbox"/>
		<input type="checkbox"/> 30= ASD, Sinus venosus	<input type="checkbox"/>
		<input type="checkbox"/> 40= ASD, Coronary sinus	<input type="checkbox"/>
		<input type="checkbox"/> 50= ASD, Common atrium (single atrium)	<input type="checkbox"/>
		<input type="checkbox"/> 2150= ASD, Postoperative interatrial communication	NA
	VSD	<input type="checkbox"/> 71= VSD, Type 1 (Subarterial) (Supracristal) (Conal septal defect) (Infundibular)	<input type="checkbox"/>
		<input type="checkbox"/> 73= VSD, Type 2 (Perimembranous) (Paramembranous) (Conoventricular)	<input type="checkbox"/>
		<input type="checkbox"/> 75= VSD, Type 3 (Inlet) (AV canal type)	<input type="checkbox"/>
		<input type="checkbox"/> 77= VSD, Type 4 (Muscular)	<input type="checkbox"/>
		<input type="checkbox"/> 79= VSD, Type: Gerbode type (LV-RA communication)	<input type="checkbox"/>
		<input type="checkbox"/> 80= VSD, Multiple	<input type="checkbox"/>
	AV Canal	<input type="checkbox"/> 100= AVC (AVSD), Complete (CAVSD)	<input type="checkbox"/>
		<input type="checkbox"/> 110= AVC (AVSD), Intermediate (transitional)	<input type="checkbox"/>
		<input type="checkbox"/> 120= AVC (AVSD), Partial (incomplete) (PAVSD) (ASD, primum)	<input type="checkbox"/>
AP Window	<input type="checkbox"/> 140= AP window (aortopulmonary window)	<input type="checkbox"/>	
	<input type="checkbox"/> 150= Pulmonary artery origin from ascending aorta (hemitruncus)	<input type="checkbox"/>	
Truncus Arteriosus	<input type="checkbox"/> 160= Truncus arteriosus	<input type="checkbox"/>	
	<input type="checkbox"/> 170= Truncal valve insufficiency	<input type="checkbox"/>	
	<input type="checkbox"/> 2470= Truncal valve stenosis	NA	
	<input type="checkbox"/> 2010= Truncus arteriosus + Interrupted aortic arch	<input type="checkbox"/>	
Pulmonary Venous Anomalies	Partial Anomalous Pulmonary Venous Connection	<input type="checkbox"/> 180= Partial anomalous pulmonary venous connection (PAPVC)	<input type="checkbox"/>
		<input type="checkbox"/> 190= Partial anomalous pulmonary venous connection (PAPVC), scimitar	<input type="checkbox"/>
	Total Anomalous Pulmonary Venous Connection	<input type="checkbox"/> 200=Total anomalous pulmonary venous connection (TAPVC), Type1 (supracardiac)	<input type="checkbox"/>
		<input type="checkbox"/> 210=Total anomalous pulmonary venous connection (TAPVC), Type 2 (cardiac)	<input type="checkbox"/>
		<input type="checkbox"/> 220=Total anomalous pulmonary venous connection (TAPVC), Type 3 (infracardiac)	<input type="checkbox"/>
<input type="checkbox"/> 230=Total anomalous pulmonary venous connection (TAPVC), Type 4 (mixed)	<input type="checkbox"/>		
Cor Triatriatum	<input type="checkbox"/> 250=Cor triatriatum	<input type="checkbox"/>	
Pulmonary Venous Stenosis	<input type="checkbox"/> 260=Pulmonary venous stenosis	<input type="checkbox"/>	
	<input type="checkbox"/> 2480=Pulmonary venous stenosis, Acquired	<input type="checkbox"/>	
	<input type="checkbox"/> 2490=Pulmonary venous stenosis, Spontaneous	<input type="checkbox"/>	
Systemic Venous Anomalies	Anomalous Systemic Venous Connection	<input type="checkbox"/> 270=Systemic venous anomaly	<input type="checkbox"/>
	Systemic venous obstruction	<input type="checkbox"/> 280=Systemic venous obstruction	<input type="checkbox"/>
Right Heart Lesions	Tetralogy of Fallot	<input type="checkbox"/> 290=TOF	<input type="checkbox"/>
		<input type="checkbox"/> 2140=TOF, Pulmonary stenosis	<input type="checkbox"/>

		<input type="checkbox"/> 300=TOF, AVC (AVSD)	<input type="checkbox"/>
		<input type="checkbox"/> 310=TOF, Absent pulmonary valve	<input type="checkbox"/>
	Pulmonary Atresia	<input type="checkbox"/> 320=Pulmonary atresia	<input type="checkbox"/>
		<input type="checkbox"/> 330=Pulmonary atresia, IVS	<input type="checkbox"/>
		<input type="checkbox"/> 340=Pulmonary atresia, VSD (Including TOF, PA)	<input type="checkbox"/>
		<input type="checkbox"/> 350=Pulmonary atresia, VSD-MAPCA	<input type="checkbox"/>
		<input type="checkbox"/> 360=MAPCA(s) (major aortopulmonary collateral[s]) (without PA-VSD)	<input type="checkbox"/>
	Tricuspid Valve Disease and Ebstein's Anomaly	<input type="checkbox"/> 370=Ebstein's anomaly	<input type="checkbox"/>
		<input type="checkbox"/> 380=Tricuspid regurgitation, non-Ebstein's related	<input type="checkbox"/>
		<input type="checkbox"/> 390=Tricuspid stenosis	<input type="checkbox"/>
		<input type="checkbox"/> 400=Tricuspid regurgitation and tricuspid stenosis	<input type="checkbox"/>
		<input type="checkbox"/> 410=Tricuspid valve, Other	<input type="checkbox"/>
	RVOT Obstruction and/or Pulmonary Stenosis	<input type="checkbox"/> 420=Pulmonary stenosis, Valvar	<input type="checkbox"/>
		<input type="checkbox"/> 430=Pulmonary artery stenosis (hypoplasia), Main (trunk)	<input type="checkbox"/>
		<input type="checkbox"/> 440=Pulmonary artery stenosis, Branch, Central (within the hilar bifurcation)	<input type="checkbox"/>
		<input type="checkbox"/> 450=Pulmonary artery stenosis, Branch, Peripheral (at or beyond the hilar bifurcation)	<input type="checkbox"/>
		<input type="checkbox"/> 470=Pulmonary artery, Discontinuous	<input type="checkbox"/>
		<input type="checkbox"/> 490=Pulmonary stenosis, Subvalvar	<input type="checkbox"/>
		<input type="checkbox"/> 500=DCRV	<input type="checkbox"/>
	Pulmonary Valve Disease	<input type="checkbox"/> 510=Pulmonary valve, Other	<input type="checkbox"/>
		<input type="checkbox"/> 530=Pulmonary insufficiency	<input type="checkbox"/>
		<input type="checkbox"/> 540=Pulmonary insufficiency and pulmonary stenosis	<input type="checkbox"/>
Shunt failure	Shunt failure	<input type="checkbox"/> 2130=Shunt Failure	NA
Conduit failure	Conduit failure	<input type="checkbox"/> 520=Conduit failure	NA

Left Heart Lesions	Aortic Valve Disease	<input type="checkbox"/> 550=Aortic stenosis, Subvalvar	<input type="checkbox"/>
		<input type="checkbox"/> 2500=Aortic stenosis, Subvalvar, Discrete	<input type="checkbox"/>
		<input type="checkbox"/> 2510=Aortic stenosis, Subvalvar, IHSS	<input type="checkbox"/>
		<input type="checkbox"/> 2520=Aortic stenosis, Subvalvar, Tunnel-like	<input type="checkbox"/>
		<input type="checkbox"/> 560=Aortic stenosis, Valvar	<input type="checkbox"/>
		<input type="checkbox"/> 570=Aortic stenosis, Supravalvar	<input type="checkbox"/>
		<input type="checkbox"/> 590=Aortic valve atresia	<input type="checkbox"/>
Left Heart Lesions	Sinus of Valsalva Fistula/Aneurysm	<input type="checkbox"/> 600=Aortic insufficiency	<input type="checkbox"/>
	LV to Aorta Tunnel	<input type="checkbox"/> 610=Aortic insufficiency and aortic stenosis	<input type="checkbox"/>
Left Heart Lesions	Mitral Valve Disease	<input type="checkbox"/> 620=Aortic valve, Other	<input type="checkbox"/>
		<input type="checkbox"/> 630=Sinus of Valsalva aneurysm	<input type="checkbox"/>
		<input type="checkbox"/> 640=LV to aorta tunnel	<input type="checkbox"/>
		<input type="checkbox"/> 650=Mitral stenosis, Supravalvar mitral ring	<input type="checkbox"/>
		<input type="checkbox"/> 660=Mitral stenosis, Valvar	<input type="checkbox"/>
		<input type="checkbox"/> 670=Mitral stenosis, Subvalvar	<input type="checkbox"/>
		<input type="checkbox"/> 680=Mitral stenosis, Subvalvar, Parachute	<input type="checkbox"/>
Left Heart Lesions	Hypoplastic Left Heart Syndrome	<input type="checkbox"/> 695=Mitral stenosis	<input type="checkbox"/>
		<input type="checkbox"/> 700=Mitral regurgitation and mitral stenosis	<input type="checkbox"/>
		<input type="checkbox"/> 710=Mitral regurgitation	<input type="checkbox"/>
		<input type="checkbox"/> 720=Mitral valve, Other	<input type="checkbox"/>
		<input type="checkbox"/> 730=Hypoplastic left heart syndrome (HLHS)	<input type="checkbox"/>
Left Heart Lesions	Shone's syndrome	<input type="checkbox"/> 2080=Shone's syndrome {CANNOT BE PRIMARY DIAGNOSIS}	<input type="checkbox"/>
	Cardiomyopathy	<input type="checkbox"/> 740=Cardiomyopathy (including dilated, restrictive, and hypertrophic)	<input type="checkbox"/>
<input type="checkbox"/> 750=Cardiomyopathy, End-stage congenital heart disease		<input type="checkbox"/>	
Pericardial Disease	<input type="checkbox"/> 760=Pericardial effusion	<input type="checkbox"/>	
	<input type="checkbox"/> 770=Pericarditis	<input type="checkbox"/>	
	<input type="checkbox"/> 780=Pericardial disease, Other	<input type="checkbox"/>	
Single Ventricle	<input type="checkbox"/> 790=Single ventricle, DILV	<input type="checkbox"/>	
	<input type="checkbox"/> 800=Single ventricle, DIRV	<input type="checkbox"/>	
	<input type="checkbox"/> 810=Single ventricle, Mitral atresia	<input type="checkbox"/>	
	<input type="checkbox"/> 820=Single ventricle, Tricuspid atresia	<input type="checkbox"/>	
	<input type="checkbox"/> 830=Single ventricle, Unbalanced AV canal	<input type="checkbox"/>	
	<input type="checkbox"/> 840=Single ventricle, Heterotaxia syndrome	<input type="checkbox"/>	
	<input type="checkbox"/> 850=Single ventricle, Other	<input type="checkbox"/>	
	<input type="checkbox"/> 851=Single ventricle + Total anomalous pulmonary venous connection (TAPVC)	<input type="checkbox"/>	
Transposition of the Great Arteries	Congenitally Corrected TGA	<input type="checkbox"/> 870=Congenitally corrected TGA	<input type="checkbox"/>
		<input type="checkbox"/> 872=Congenitally corrected TGA, IVS	<input type="checkbox"/>
		<input type="checkbox"/> 874=Congenitally corrected TGA, IVS-LVOTO	<input type="checkbox"/>
		<input type="checkbox"/> 876=Congenitally corrected TGA, VSD	<input type="checkbox"/>
		<input type="checkbox"/> 878=Congenitally corrected TGA, VSD-LVOTO	<input type="checkbox"/>
Transposition of the Great Arteries	Transposition of the Great Arteries	<input type="checkbox"/> 880=TGA, IVS	<input type="checkbox"/>
		<input type="checkbox"/> 890=TGA, IVS-LVOTO	<input type="checkbox"/>
		<input type="checkbox"/> 900=TGA, VSD	<input type="checkbox"/>
		<input type="checkbox"/> 910=TGA, VSD-LVOTO	<input type="checkbox"/>

DORV		<input type="checkbox"/> 930=DORV, VSD type	<input type="checkbox"/>
		<input type="checkbox"/> 940=DORV, TOF type	<input type="checkbox"/>
		<input type="checkbox"/> 950=DORV, TGA type	<input type="checkbox"/>
		<input type="checkbox"/> 960=DORV, Remote VSD (uncommitted VSD)	<input type="checkbox"/>
		<input type="checkbox"/> 2030=DORV + AVSD (AV Canal)	<input type="checkbox"/>
		<input type="checkbox"/> 975=DORV, IVS	<input type="checkbox"/>
DOLV		<input type="checkbox"/> 980=DOLV	<input type="checkbox"/>
Thoracic Arteries and Veins	Coarctation of Aorta and Aortic arch hypoplasia	<input type="checkbox"/> 990=Coarctation of aorta	<input type="checkbox"/>
		<input type="checkbox"/> 1000=Aortic arch hypoplasia	<input type="checkbox"/>
		<input type="checkbox"/> 92=VSD + Aortic arch hypoplasia	<input type="checkbox"/>
		<input type="checkbox"/> 94=VSD + Coarctation of aorta	<input type="checkbox"/>
	Coronary Artery Anomalies	<input type="checkbox"/> 1010=Coronary artery anomaly, Anomalous aortic origin of coronary artery (AAOCA)	<input type="checkbox"/>
		<input type="checkbox"/> 1020=Coronary artery anomaly, Anomalous pulmonary origin (includes ALCAPA)	<input type="checkbox"/>
		<input type="checkbox"/> 1030=Coronary artery anomaly, Fistula	<input type="checkbox"/>
		<input type="checkbox"/> 1040=Coronary artery anomaly, Aneurysm	<input type="checkbox"/>
		<input type="checkbox"/> 2420=Coronary artery anomaly, Ostial atresia	<input type="checkbox"/>
		<input type="checkbox"/> 1050=Coronary artery anomaly, Other	<input type="checkbox"/>
	Interrupted Arch	<input type="checkbox"/> 1070=Interrupted aortic arch	<input type="checkbox"/>
		<input type="checkbox"/> 2020=Interrupted aortic arch + VSD	<input type="checkbox"/>
		<input type="checkbox"/> 2000=Interrupted aortic arch + AP window (aortopulmonary window)	<input type="checkbox"/>
	Patent Ductus Arteriosus	<input type="checkbox"/> 1080=Patent ductus arteriosus	<input type="checkbox"/>
Vascular rings and Slings	<input type="checkbox"/> 1090=Vascular ring	<input type="checkbox"/>	
	<input type="checkbox"/> 1100=Pulmonary artery sling	<input type="checkbox"/>	
Aortic Aneurysm	<input type="checkbox"/> 1110=Aortic aneurysm (including pseudoaneurysm)	<input type="checkbox"/>	
Aortic Dissection	<input type="checkbox"/> 1120=Aortic dissection	<input type="checkbox"/>	
Thoracic and Mediastinal Disease	Lung Disease	<input type="checkbox"/> 1130=Lung disease, Benign	<input type="checkbox"/>
		<input type="checkbox"/> 1140=Lung disease, Malignant	<input type="checkbox"/>
	Tracheal	<input type="checkbox"/> 1160=Tracheal stenosis	<input type="checkbox"/>
		<input type="checkbox"/> 2430=Tracheomalacia	<input type="checkbox"/>
		<input type="checkbox"/> 1170=Airway disease, Other	<input type="checkbox"/>
	Pleural Disease	<input type="checkbox"/> 1430=Pleural disease, Benign	<input type="checkbox"/>
		<input type="checkbox"/> 1440=Pleural disease, Malignant	<input type="checkbox"/>
		<input type="checkbox"/> 1450=Pneumothorax	<input type="checkbox"/>
		<input type="checkbox"/> 1460=Pleural effusion	<input type="checkbox"/>
		<input type="checkbox"/> 1470=Chylothorax	<input type="checkbox"/>
		<input type="checkbox"/> 1480=Empyema	<input type="checkbox"/>
	Esophageal Disease	<input type="checkbox"/> 1490=Esophageal disease, Benign	<input type="checkbox"/>
		<input type="checkbox"/> 1500=Esophageal disease, Malignant	<input type="checkbox"/>
	Mediastinal Disease	<input type="checkbox"/> 1505=Mediastinal disease	<input type="checkbox"/>
		<input type="checkbox"/> 1510=Mediastinal disease, Benign	<input type="checkbox"/>
		<input type="checkbox"/> 1520=Mediastinal disease, Malignant	<input type="checkbox"/>
	Diaphragmatic Disease	<input type="checkbox"/> 1540=Diaphragm paralysis	<input type="checkbox"/>
<input type="checkbox"/> 1550=Diaphragm disease, Other		<input type="checkbox"/>	

Thoracic and Mediastinal Disease	Chest Wall	<input type="checkbox"/> 2160=Rib tumor, Benign	<input type="checkbox"/>
		<input type="checkbox"/> 2170=Rib tumor, Malignant	<input type="checkbox"/>
		<input type="checkbox"/> 2180=Rib tumor, Metastatic	<input type="checkbox"/>
		<input type="checkbox"/> 2190=Sternal tumor, Benign	<input type="checkbox"/>
<input type="checkbox"/> 2200=Sternal tumor, Malignant		<input type="checkbox"/>	
<input type="checkbox"/> 2210=Sternal tumor, Metastatic		<input type="checkbox"/>	
Pectus Excavatum, Carinatum	<input type="checkbox"/> 2220=Pectus carinatum	<input type="checkbox"/>	
	<input type="checkbox"/> 2230=Pectus excavatum	<input type="checkbox"/>	
Thoracic Outlet	<input type="checkbox"/> 2240=Thoracic outlet syndrome	<input type="checkbox"/>	
Electrophysiological	<input type="checkbox"/> 1180=Arrhythmia	<input type="checkbox"/>	
	<input type="checkbox"/> 2440=Arrhythmia, Atrial, Atrial fibrillation	<input type="checkbox"/>	
	<input type="checkbox"/> 2450=Arrhythmia, Atrial, Atrial flutter	<input type="checkbox"/>	
	<input type="checkbox"/> 2460=Arrhythmia, Atrial, Other	<input type="checkbox"/>	
	<input type="checkbox"/> 2050=Arrhythmia, Junctional	<input type="checkbox"/>	
	<input type="checkbox"/> 2060=Arrhythmia, Ventricular	<input type="checkbox"/>	
	<input type="checkbox"/> 1185=Arrhythmia, Heart block	<input type="checkbox"/>	
	<input type="checkbox"/> 1190=Arrhythmia, Heart block, Acquired	<input type="checkbox"/>	
	<input type="checkbox"/> 1200=Arrhythmia, Heart block, Congenital	<input type="checkbox"/>	
	<input type="checkbox"/> 1220=Arrhythmia, Pacemaker, Indication for replacement	NA	
	<input type="checkbox"/> 2530= Short QT syndrome	<input type="checkbox"/>	
	<input type="checkbox"/> 2540= Long QT syndrome (Ward Romano syndrome)	<input type="checkbox"/>	
	<input type="checkbox"/> 2550= Wolff-Parkinson-White syndrome (WPW syndrome)	<input type="checkbox"/>	
Miscellaneous, Other	<input type="checkbox"/> 1230=Atrial Isomerism, Left {CANNOT BE PRIMARY DIAGNOSIS}	NA	
	<input type="checkbox"/> 1240=Atrial Isomerism, Right {CANNOT BE PRIMARY DIAGNOSIS}	NA	
	<input type="checkbox"/> 2090=Dextrocardia {CANNOT BE PRIMARY DIAGNOSIS}	NA	
	<input type="checkbox"/> 2100=Levocardia {CANNOT BE PRIMARY DIAGNOSIS}	NA	
	<input type="checkbox"/> 2110=Mesocardia {CANNOT BE PRIMARY DIAGNOSIS}	NA	
	<input type="checkbox"/> 2120=Situs inversus {CANNOT BE PRIMARY DIAGNOSIS}	NA	
	<input type="checkbox"/> 1250=Aneurysm, Ventricular, Right (including pseudoaneurysm)	<input type="checkbox"/>	
	<input type="checkbox"/> 1260=Aneurysm, Ventricular, Left (including pseudoaneurysm)	<input type="checkbox"/>	
	<input type="checkbox"/> 1270=Aneurysm, Pulmonary artery	<input type="checkbox"/>	
	<input type="checkbox"/> 1280=Aneurysm, Other	<input type="checkbox"/>	
	<input type="checkbox"/> 1290=Hypoplastic RV	<input type="checkbox"/>	
	<input type="checkbox"/> 1300=Hypoplastic LV	<input type="checkbox"/>	
	<input type="checkbox"/> 2070=Postoperative bleeding	NA	
	<input type="checkbox"/> 1310=Mediastinitis	<input type="checkbox"/>	
	<input type="checkbox"/> 1320=Endocarditis	<input type="checkbox"/>	
	<input type="checkbox"/> 1325=Rheumatic heart disease {CANNOT BE PRIMARY DIAGNOSIS}	<input type="checkbox"/>	
	<input type="checkbox"/> 1330=Prosthetic valve failure	NA	
	<input type="checkbox"/> 1340=Myocardial infarction	<input type="checkbox"/>	
	<input type="checkbox"/> 1350=Cardiac tumor	<input type="checkbox"/>	
	<input type="checkbox"/> 1360=Pulmonary AV fistula	<input type="checkbox"/>	
	<input type="checkbox"/> 1370=Pulmonary embolism	<input type="checkbox"/>	
	<input type="checkbox"/> 1385=Pulmonary vascular obstructive disease	<input type="checkbox"/>	
	<input type="checkbox"/> 1390=Pulmonary vascular obstructive disease (Eisenmenger's)	<input type="checkbox"/>	
	<input type="checkbox"/> 1400=Primary pulmonary hypertension	<input type="checkbox"/>	
	<input type="checkbox"/> 1410=Persistent fetal circulation	<input type="checkbox"/>	
	<input type="checkbox"/> 1420=Meconium aspiration	<input type="checkbox"/>	

		<input type="checkbox"/> 2250=Kawasaki Disease	<input type="checkbox"/>
		<input type="checkbox"/> 1560=Cardiac, Other	<input type="checkbox"/>
		<input type="checkbox"/> 1570=Thoracic and/or mediastinal, Other	<input type="checkbox"/>
		<input type="checkbox"/> 1580=Peripheral vascular, Other	<input type="checkbox"/>
		<input type="checkbox"/> 2260=Complication of cardiovascular catheterization procedure	NA
		<input type="checkbox"/> 2270=Complication of cardiovascular catheterization procedure, Device embolization	NA
		<input type="checkbox"/> 2280=Complication of cardiovascular catheterization procedure, Device malfunction	NA
		<input type="checkbox"/> 2290=Complication of cardiovascular catheterization procedure, Perforation	NA
		<input type="checkbox"/> 2300=Complication of interventional radiology procedure	NA
		<input type="checkbox"/> 2310=Complication of interventional radiology procedure, Device embolization	NA
		<input type="checkbox"/> 2320=Complication of interventional radiology procedure, Device malfunction	NA
		<input type="checkbox"/> 2330=Complication of interventional radiology procedure, Perforation	NA
		<input type="checkbox"/> 2340=Foreign body, Intracardiac foreign body	NA
		<input type="checkbox"/> 2350=Foreign body, Intravascular foreign body	NA
		<input type="checkbox"/> 2360=Open sternum with closed skin	NA
		<input type="checkbox"/> 2370=Open sternum with open skin (includes membrane placed to close skin)	NA
		<input type="checkbox"/> 2380=Retained sternal wire causing irritation	NA
		<input type="checkbox"/> 2390=Syncope	NA
		<input type="checkbox"/> 2400=Trauma, Blunt	<input type="checkbox"/>
		<input type="checkbox"/> 2410=Trauma, Penetrating	<input type="checkbox"/>
		<input type="checkbox"/> 2560=Cardio-respiratory failure not secondary to known structural heart disease	<input type="checkbox"/>
		<input type="checkbox"/> 2570=Myocarditis	<input type="checkbox"/>
		<input type="checkbox"/> 2580=Common AV valve insufficiency	<input type="checkbox"/>
		<input type="checkbox"/> 2590=Protein-losing enteropathy	<input type="checkbox"/>
		<input type="checkbox"/> 2600=Plastic bronchitis	<input type="checkbox"/>
		<input type="checkbox"/> 7000=Normal heart	<input type="checkbox"/>
		<input type="checkbox"/> 7777=Miscellaneous, Other	<input type="checkbox"/>
Septal Defects	ASD	<input type="checkbox"/> 4010=Status post - PFO, Primary closure	
		<input type="checkbox"/> 4020=Status post - ASD repair, Primary closure	
		<input type="checkbox"/> 4030=Status post - ASD repair, Patch	
		<input type="checkbox"/> 4040=Status post - ASD repair, Device	
		<input type="checkbox"/> 6110=Status post - ASD repair, Patch + PAPVC repair	
		<input type="checkbox"/> 4050=Status post - ASD, Common atrium (single atrium), Septation	
		<input type="checkbox"/> 4060=Status post - ASD creation/enlargement	
		<input type="checkbox"/> 4070=Status post - ASD partial closure	
		<input type="checkbox"/> 4080=Status post - Atrial septal fenestration	
	<input type="checkbox"/> 4085=Status post - Atrial fenestration closure		
	VSD	<input type="checkbox"/> 4100=Status post - VSD repair, Primary closure	
		<input type="checkbox"/> 4110=Status post - VSD repair, Patch	
		<input type="checkbox"/> 4120=Status post - VSD repair, Device	
		<input type="checkbox"/> 4130=Status post - VSD, Multiple, Repair	
		<input type="checkbox"/> 4140=Status post - VSD creation/enlargement	
		<input type="checkbox"/> 4150=Status post - Ventricular septal fenestration	
	AV Canal	<input type="checkbox"/> 4170=Status post - AVC (AVSD) repair, Complete (CAVSD)	
		<input type="checkbox"/> 4180=Status post - AVC (AVSD) repair, Intermediate (Transitional)	

		<input type="checkbox"/> 4190=Status post - AVC (AVSD) repair, Partial (Incomplete) (PAVSD) <input type="checkbox"/> 6300=Status post - Valvuloplasty, Common atrioventricular valve <input type="checkbox"/> 6250=Status post - Valvuloplasty converted to valve replacement in the same operation, Common atrioventricular valve <input type="checkbox"/> 6230=Status post - Valve replacement, Common atrioventricular valve
	AP Window	<input type="checkbox"/> 4210=Status post - AP window repair <input type="checkbox"/> 4220=Status post - Pulmonary artery origin from ascending aorta (hemitruncus) repair
	Truncus Arteriosus	<input type="checkbox"/> 4230=Status post - Truncus arteriosus repair <input type="checkbox"/> 4240=Status post - Valvuloplasty, Truncal valve <input type="checkbox"/> 6290=Status post - Valvuloplasty converted to valve replacement in the same operation, Truncal valve <input type="checkbox"/> 4250=Status post - Valve replacement, Truncal valve <input type="checkbox"/> 6220=Status post - Truncus + Interrupted aortic arch repair (IAA) repair
Pulmonary Venous Anomalies	Partial Anomalous Pulmonary Venous Connection	<input type="checkbox"/> 4260=Status post - PAPVC repair <input type="checkbox"/> 4270=Status post - PAPVC, Scimitar, Repair <input type="checkbox"/> 6120=Status post - PAPVC repair, Baffle redirection to left atrium with systemic vein translocation (Warden) (SVC sewn to right atrial appendage)
	Total Anomalous Pulmonary Venous Connection	<input type="checkbox"/> 4280=Status post - TAPVC repair <input type="checkbox"/> 6200=Status post - TAPVC repair + Shunt - systemic-to-pulmonary
Cor Triatriatum		<input type="checkbox"/> 4290=Status post - Cor triatriatum repair
Pulmonary Venous Stenosis		<input type="checkbox"/> 4300=Status post - Pulmonary venous stenosis repair
Systemic Venous Anomalies	Anomalous Systemic Venous Connection	<input type="checkbox"/> 4310=Status post - Atrial baffle procedure (non-Mustard, non-Senning) <input type="checkbox"/> 4330=Status post - Anomalous systemic venous connection repair
	Systemic venous obstruction	<input type="checkbox"/> 4340=Status post - Systemic venous stenosis repair
Right Heart Lesions	Tetralogy of Fallot	<input type="checkbox"/> 4350=Status post - TOF repair, No ventriculotomy <input type="checkbox"/> 4360=Status post - TOF repair, Ventriculotomy, Nontransannular patch <input type="checkbox"/> 4370=Status post - TOF repair, Ventriculotomy, Transannular patch <input type="checkbox"/> 7330=Status post - TOF repair, Ventriculotomy, Transannular patch, plus native valve reconstruction <input type="checkbox"/> 7340=Status post - TOF repair, Ventriculotomy, Transannular patch, with monocusp or other surgically fashioned RVOT valve <input type="checkbox"/> 4380=Status post - TOF repair, RV-PA conduit <input type="checkbox"/> 4390=Status post - TOF - AVC (AVSD) repair <input type="checkbox"/> 4400=Status post - TOF - Absent pulmonary valve repair
	Pulmonary Atresia/VSD	<input type="checkbox"/> 4420=Status post - Pulmonary atresia - VSD (including TOF, PA) repair <input type="checkbox"/> 6700=Status post - Pulmonary atresia - VSD - MAPCA repair, Complete single stage repair (1-stage that includes bilateral pulmonary unifocalization + VSD closure + RV to PA connection [with or without conduit]) <input type="checkbox"/> 6710=Status post - Pulmonary atresia - VSD - MAPCA repair, Status post prior complete unifocalization (includes VSD closure + RV to PA connection [with or without conduit]) <input type="checkbox"/> 6720=Status post - Pulmonary atresia - VSD - MAPCA repair, Status post prior incomplete unifocalization (includes completion of pulmonary unifocalization + VSD closure + RV to PA connection [with or without conduit]) <input type="checkbox"/> 6730=Status post - Unifocalization MAPCA(s), Bilateral pulmonary unifocalization - Complete unifocalization (all usable MAPCA[s] are incorporated)

		<input type="checkbox"/> 6740=Status post - Unifocalization MAPCA(s), Bilateral pulmonary unifocalization - Incomplete unifocalization (not all usable MAPCA[s] are incorporated) <input type="checkbox"/> 6750=Status post - Unifocalization MAPCA(s), Unilateral pulmonary unifocalization <input type="checkbox"/> 4440=Status post – Unifocalization MAPCA(s) <input type="checkbox"/> 4450=Status post - Occlusion of MAPCA(s)
	Tricuspid Valve Disease and Ebstein's Anomaly	<input type="checkbox"/> 4460=Status post - Valvuloplasty, Tricuspid <input type="checkbox"/> 6280=Status post - Valvuloplasty converted to valve replacement in the same operation, Tricuspid <input type="checkbox"/> 4465=Status post - Ebstein's repair <input type="checkbox"/> 4470=Status post - Valve replacement, Tricuspid (TVR) <input type="checkbox"/> 4480=Status post - Valve closure, Tricuspid (exclusion, univentricular approach) <input type="checkbox"/> 4490=Status post - Valve excision, Tricuspid (without replacement) <input type="checkbox"/> 4500=Status post - Valve surgery, Other, Tricuspid
	RVOT Obstruction, IVS Pulmonary Stenosis	<input type="checkbox"/> 4510=Status post - RVOT procedure <input type="checkbox"/> 4520=Status post - 1 1/2 ventricular repair <input type="checkbox"/> 4530=Status post - PA, reconstruction (plasty), Main (trunk) <input type="checkbox"/> 4540=Status post - PA, reconstruction (plasty), Branch, Central (within the hilar bifurcation) <input type="checkbox"/> 4550=Status post - PA, reconstruction (plasty), Branch, Peripheral (at or beyond the first lobar branch) <input type="checkbox"/> 7350=Status post - PA, reconstruction (plasty), Branch, Peripheral (at or beyond the first lobar branch, proximal to first segmental branch) <input type="checkbox"/> 7360=Status post - PA, reconstruction (plasty), Branch, Peripheral (at or beyond the first lobar branch, beyond the first segmental branch) <input type="checkbox"/> 4570=Status post - DCRV repair <input type="checkbox"/> 7370=Status post - RV Rehabilitation, Endocardial Resection
	Pulmonary Valve Disease	<input type="checkbox"/> 4590=Status post - Valvuloplasty, Pulmonic <input type="checkbox"/> 6270=Status post - Valvuloplasty converted to valve replacement in the same operation, Pulmonic <input type="checkbox"/> 4600=Status post - Valve replacement, Pulmonic (PVR) <input type="checkbox"/> 4630=Status post - Valve excision, Pulmonary (without replacement) <input type="checkbox"/> 4640=Status post - Valve closure, Semilunar <input type="checkbox"/> 4650=Status post - Valve surgery, Other, Pulmonic
Conduit operations	Conduit operations	<input type="checkbox"/> 4610=Status post - Conduit placement, RV to PA <input type="checkbox"/> 4620=Status post - Conduit placement, LV to PA <input type="checkbox"/> 5774=Status post - Conduit placement, Ventricle to aorta <input type="checkbox"/> 5772=Status post - Conduit placement, Other
	Conduit Stenosis / Insufficiency	<input type="checkbox"/> 4580=Status post - Conduit reoperation
		<input type="checkbox"/> 4660=Status post - Valvuloplasty, Aortic <input type="checkbox"/> 6240=Status post - Valvuloplasty converted to valve replacement in the same operation, Aortic <input type="checkbox"/> 6310=Status post - Valvuloplasty converted to valve replacement in the same operation, Aortic – with Ross procedure <input type="checkbox"/> 6320=Status post - Valvuloplasty converted to valve replacement in the same operation, Aortic – with Ross-Konno procedure <input type="checkbox"/> 4670=Status post - Valve replacement, Aortic (AVR) <input type="checkbox"/> 4680=Status post - Valve replacement, Aortic (AVR), Mechanical <input type="checkbox"/> 4690=Status post - Valve replacement, Aortic (AVR), Bioprosthetic

Left Heart Lesions	Aortic Valve Disease	<input type="checkbox"/> 4700=Status post - Valve replacement, Aortic (AVR), Homograft <input type="checkbox"/> 4715=Status post - Aortic root replacement, Bioprosthetic <input type="checkbox"/> 4720=Status post - Aortic root replacement, Mechanical <input type="checkbox"/> 4730=Status post - Aortic root replacement, Homograft <input type="checkbox"/> 4735=Status post - Aortic root replacement, Valve sparing <input type="checkbox"/> 4740=Status post - Ross procedure <input type="checkbox"/> 4750=Status post - Konno procedure <input type="checkbox"/> 4760=Status post - Ross-Konno procedure <input type="checkbox"/> 4770=Status post - Other annular enlargement procedure <input type="checkbox"/> 4780=Status post - Aortic stenosis, Subvalvar, Repair <input type="checkbox"/> 6100=Status post - Aortic stenosis, Subvalvar, Repair, With myectomy for IHSS <input type="checkbox"/> 4790=Status post - Aortic stenosis, Supravalvar, Repair <input type="checkbox"/> 4800=Status post - Valve surgery, Other, Aortic <input type="checkbox"/> 7380=Status post - Extended Ventricular Septoplasty (modified Konno, VSD creation and patch enlargement of LVOT, sparing aortic valve) for tunnel type sub aortic stenosis	
	Sinus of Valsalva Aneurysm	<input type="checkbox"/> 4810=Status post - Sinus of Valsalva, Aneurysm repair	
	LV to Aorta Tunnel	<input type="checkbox"/> 4820=Status post - LV to aorta tunnel repair	
	Mitral Valve Disease	<input type="checkbox"/> 4830=Status post - Valvuloplasty, Mitral <input type="checkbox"/> 6260=Status post - Valvuloplasty converted to valve replacement in the same operation, Mitral <input type="checkbox"/> 4840=Status post - Mitral stenosis, Supravalvar mitral ring repair <input type="checkbox"/> 4850=Status post - Valve replacement, Mitral (MVR) <input type="checkbox"/> 4860=Status post - Valve surgery, Other, Mitral	
		Hypoplastic Left Heart and Related malformations	<input type="checkbox"/> 4870=Status post - Norwood procedure <input type="checkbox"/> 4880=Status post - HLHS biventricular repair <input type="checkbox"/> 7390=Status post - LV Endocardial Fibroelastosis resection <input type="checkbox"/> 6755=Status post - Conduit insertion right ventricle to pulmonary artery + Intraventricular tunnel left ventricle to neoaorta + arch reconstruction (Rastelli and Norwood type arch reconstruction) (Yasui)
			Hybrid
Cardiomyopathy			
	Pericardial Disease	<input type="checkbox"/> 4920=Status post - Pericardial drainage procedure <input type="checkbox"/> 4930=Status post - Pericardiectomy	

		<input type="checkbox"/> 4940=Status post - Pericardial procedure, Other
Single Ventricle		<input type="checkbox"/> 4950=Status post - Fontan, Atrio-pulmonary connection <input type="checkbox"/> 4960=Status post - Fontan, Atrio-ventricular connection <input type="checkbox"/> 4970=Status post - Fontan, TCPC, Lateral tunnel, Fenestrated <input type="checkbox"/> 4980=Status post - Fontan, TCPC, Lateral tunnel, Nonfenestrated <input type="checkbox"/> 5000=Status post - Fontan, TCPC, External conduit, Fenestrated <input type="checkbox"/> 5010=Status post - Fontan, TCPC, External conduit, Nonfenestrated <input type="checkbox"/> 6780=Status post - Fontan, TCPC, Intra/extracardiac conduit, Fenestrated <input type="checkbox"/> 6790=Status post - Fontan, TCPC, Intra/extracardiac conduit, Nonfenestrated <input type="checkbox"/> 7310=Status post - Fontan, TCPC, External conduit, hepatic veins to pulmonary artery, Fenestrated <input type="checkbox"/> 7320=Status post - Fontan, TCPC, External conduit, hepatic veins to pulmonary artery, Nonfenestrated <input type="checkbox"/> 5025=Status post - Fontan revision or conversion (Re-do Fontan) <input type="checkbox"/> 5030=Status post - Fontan, Other <input type="checkbox"/> 6340=Status post - Fontan + Atrioventricular valvuloplasty <input type="checkbox"/> 5035=Status post - Ventricular septation
	Congenitally Corrected TGA	<input type="checkbox"/> 5050=Status post - Congenitally corrected TGA repair, Atrial switch and ASO (double switch) <input type="checkbox"/> 5060=Status post - Congenitally corrected TGA repair, Atrial switch and Rastelli <input type="checkbox"/> 5070=Status post - Congenitally corrected TGA repair, VSD closure <input type="checkbox"/> 5080=Status post - Congenitally corrected TGA repair, VSD closure and LV to PA conduit <input type="checkbox"/> 5090=Status post - Congenitally corrected TGA repair, Other
Transposition of the Great Arteries	Transposition of the Great Arteries	<input type="checkbox"/> 5110=Status post - Arterial switch operation (ASO) <input type="checkbox"/> 5120=Status post - Arterial switch operation (ASO) and VSD repair <input type="checkbox"/> 5123=Status post - Arterial switch procedure + Aortic arch repair <input type="checkbox"/> 5125=Status post - Arterial switch procedure and VSD repair + Aortic arch repair <input type="checkbox"/> 5130=Status post - Senning <input type="checkbox"/> 5140=Status post - Mustard <input type="checkbox"/> 5145=Status post - Atrial baffle procedure, Mustard or Senning revision <input type="checkbox"/> 5150=Status post - Rastelli <input type="checkbox"/> 5160=Status post - REV <input type="checkbox"/> 6190=Status post - Aortic root translocation over left ventricle (Including Nikaidoh procedure) <input type="checkbox"/> 6210=Status post - TGA, Other procedures (Kawashima, LV-PA conduit, other) <input type="checkbox"/> 7400=Status post - Double root translocation
DORV		<input type="checkbox"/> 5180=Status post - DORV, Intraventricular tunnel repair <input type="checkbox"/> 7410=Status post - DORV repair, No Ventriculotomy <input type="checkbox"/> 7420=Status post - DORV repair, Ventriculotomy, Nontransannular patch <input type="checkbox"/> 7430=Status post - DORV repair, Ventriculotomy, Transannular patch <input type="checkbox"/> 7440=Status post - DORV repair, RV-PA conduit <input type="checkbox"/> 7450=Status post - DORV - AVC (AVSD) repair
DOLV		<input type="checkbox"/> 5200=Status post - DOLV repair
Thoracic Arteries and Veins	Coarctation of Aorta and Aortic arch hypoplasia	<input type="checkbox"/> 5210=Status post - Coarctation repair, End to end <input type="checkbox"/> 5220=Status post - Coarctation repair, End to end, Extended <input type="checkbox"/> 7460=Status post - Coarctation repair, Descending aorta anastomosed to Ascending aorta

	<input type="checkbox"/> 5230=Status post - Coarctation repair, Subclavian flap <input type="checkbox"/> 5240=Status post - Coarctation repair, Patch aortoplasty <input type="checkbox"/> 5250=Status post - Coarctation repair, Interposition graft <input type="checkbox"/> 7470=Status post - Coarctation repair, Extra-anatomic Bypass graft <input type="checkbox"/> 5260=Status post - Coarctation repair, Other <input type="checkbox"/> 5275=Status post - Coarctation repair + VSD repair <input type="checkbox"/> 5280=Status post - Aortic arch repair <input type="checkbox"/> 5285=Status post - Aortic arch repair + VSD repair		
Coronary Artery Anomalies	<input type="checkbox"/> 5290=Status post - Coronary artery fistula ligation <input type="checkbox"/> 5291=Status post - Anomalous origin of coronary artery from pulmonary artery repair <input type="checkbox"/> 5300=Status post - Coronary artery bypass <input type="checkbox"/> 5305=Status post - Anomalous aortic origin of coronary artery (AAOCA) repair <input type="checkbox"/> 5310=Status post - Coronary artery procedure, Other		
Interrupted Arch	<input type="checkbox"/> 5320=Status post - Interrupted aortic arch repair		
Patent Ductus Arteriosus	<input type="checkbox"/> 5330=Status post - PDA closure, Surgical <input type="checkbox"/> 5340=Status post - PDA closure, Device		
Vascular Rings and Slings	<input type="checkbox"/> 5360=Status post - Vascular ring repair <input type="checkbox"/> 5365=Status post - Aortopexy <input type="checkbox"/> 5370=Status post - Pulmonary artery sling repair		
Aortic Aneurysm	<input type="checkbox"/> 5380=Status post - Aortic aneurysm repair		
Aortic Dissection	<input type="checkbox"/> 5390=Status post - Aortic dissection repair		
Thoracic and Mediastinal Disease	Lung Disease <input type="checkbox"/> 5400=Status post - Lung biopsy <input type="checkbox"/> 1600=Status post - Transplant, lung(s) <input type="checkbox"/> 5420=Status post - Lung procedure, Other		
	Tracheal Stenosis	<input type="checkbox"/> 5440=Status post - Tracheal procedure	
	Chest Wall	<input type="checkbox"/> 6800=Status post - Muscle flap, Trunk (i.e. intercostal, pectus, or serratus muscle) <input type="checkbox"/> 6810=Status post - Muscle flap, Trunk (i.e. latissimus dorsi) <input type="checkbox"/> 6820=Status post - Removal, Sternal wire <input type="checkbox"/> 6830=Status post - Rib excision, Complete <input type="checkbox"/> 6840=Status post - Rib excision, Partial <input type="checkbox"/> 6850=Status post - Sternal fracture, Open treatment <input type="checkbox"/> 6860=Status post - Sternal resection, Radical resection of the sternum <input type="checkbox"/> 6870=Status post - Sternal resection, Radical resection of the sternum with mediastinal lymphadenectomy <input type="checkbox"/> 6880=Status post - Tumor of chest wall, Excision including ribs <input type="checkbox"/> 6890=Status post - Tumor of chest wall, Excision including ribs, With reconstruction <input type="checkbox"/> 6900=Status post - Tumor of soft tissue of thorax, Excision of deep subfascial or intramuscular tumor <input type="checkbox"/> 6910=Status post - Tumor of soft tissue of thorax, Excision of subcutaneous tumor <input type="checkbox"/> 6920=Status post - Tumor of soft tissue of thorax, Radical resection	
		Neck	<input type="checkbox"/> 6930=Status post - Hyoid myotomy and suspension <input type="checkbox"/> 6940=Status post - Muscle flap, Neck <input type="checkbox"/> 6950=Status post - Procedure on neck <input type="checkbox"/> 6960=Status post - Tumor of soft tissue of neck, Excision of deep subfascial or intramuscular tumor <input type="checkbox"/> 6970=Status post - Tumor of soft tissue of neck, Excision of subcutaneous tumor <input type="checkbox"/> 6980=Status post - Tumor of soft tissue of neck, Radical resection
			<input type="checkbox"/> 6990=Status post - Pectus bar removal

	Pectus Excavatum, Carinatum	<input type="checkbox"/> 7005=Status post - Pectus bar repositioning <input type="checkbox"/> 7010=Status post - Pectus repair, Minimally invasive repair (Nuss), With thoracoscopy <input type="checkbox"/> 7020=Status post - Pectus repair, Minimally invasive repair (Nuss), Without thoracoscopy <input type="checkbox"/> 7030=Status post - Pectus repair, Open repair
	Thoracic Outlet	<input type="checkbox"/> 7040=Status post - Division of scalenus anticus, With resection of a cervical rib <input type="checkbox"/> 7050=Status post - Division of scalenus anticus, Without resection of a cervical rib <input type="checkbox"/> 7060=Status post - Rib excision, Excision of a cervical rib <input type="checkbox"/> 7070=Status post - Rib excision, Excision of a cervical rib, With sympathectomy <input type="checkbox"/> 7080=Status post - Rib excision, Excision of first rib <input type="checkbox"/> 7090=Status post - Rib excision, Excision of first rib, With sympathectomy
	Thorax	<input type="checkbox"/> 7100=Status post - Procedure on thorax
Electrophysiological		<input type="checkbox"/> 5450=Status post - Pacemaker implantation, Permanent <input type="checkbox"/> 5460=Status post - Pacemaker procedure <input type="checkbox"/> 6350=Status post - Explantation of pacing system <input type="checkbox"/> 5470=Status post - ICD (AICD) implantation <input type="checkbox"/> 5480=Status post - ICD (AICD) ([automatic] implantable cardioverter defibrillator) procedure <input type="checkbox"/> 5490=Status post - Arrhythmia surgery - atrial, Surgical Ablation <input type="checkbox"/> 5500=Status post - Arrhythmia surgery - ventricular, Surgical Ablation
Interventional Cardiology Procedures		<input type="checkbox"/> 6500=Status post - Cardiovascular catheterization procedure, Diagnostic <input type="checkbox"/> 6520=Status post - Cardiovascular catheterization procedure, Diagnostic, Angiographic data obtained <input type="checkbox"/> 6550=Status post - Cardiovascular catheterization procedure, Diagnostic, Electrophysiology alteration <input type="checkbox"/> 6540=Status post - Cardiovascular catheterization procedure, Diagnostic, Hemodynamic alteration <input type="checkbox"/> 6510=Status post - Cardiovascular catheterization procedure, Diagnostic, Hemodynamic data obtained <input type="checkbox"/> 6530=Status post - Cardiovascular catheterization procedure, Diagnostic, Transluminal test occlusion <input type="checkbox"/> 6410=Status post - Cardiovascular catheterization procedure, Therapeutic <input type="checkbox"/> 6670=Status post - Cardiovascular catheterization procedure, Therapeutic, Adjunctive therapy <input type="checkbox"/> 6570=Status post - Cardiovascular catheterization procedure, Therapeutic, Balloon dilation <input type="checkbox"/> 6590=Status post - Cardiovascular catheterization procedure, Therapeutic, Balloon valvotomy <input type="checkbox"/> 6600=Status post - Cardiovascular catheterization procedure, Therapeutic, Coil implantation <input type="checkbox"/> 6610=Status post - Cardiovascular catheterization procedure, Therapeutic, Device implantation <input type="checkbox"/> 7110=Status post - Cardiovascular catheterization procedure, Therapeutic, Device implantation attempted <input type="checkbox"/> 6690=Status post - Cardiovascular catheterization procedure, Therapeutic, Electrophysiological ablation <input type="checkbox"/> 7120=Status post - Cardiovascular catheterization procedure, Therapeutic, Intravascular foreign body removal <input type="checkbox"/> 6640=Status post - Cardiovascular catheterization procedure, Therapeutic, Perforation (establishing interchamber and/or intervessel communication) <input type="checkbox"/> 6580=Status post - Cardiovascular catheterization procedure, Therapeutic, Septostomy

	<ul style="list-style-type: none"> <input type="checkbox"/> 6620=Status post - Cardiovascular catheterization procedure, Therapeutic, Stent insertion <input type="checkbox"/> 6630=Status post - Cardiovascular catheterization procedure, Therapeutic, Stent re-dilation <input type="checkbox"/> 6650=Status post - Cardiovascular catheterization procedure, Therapeutic, Transcatheter Fontan completion <input type="checkbox"/> 6660=Status post - Cardiovascular catheterization procedure, Therapeutic, Transcatheter implantation of valve
<p>Palliative Procedures</p>	<ul style="list-style-type: none"> <input type="checkbox"/> 5590=Status post - Shunt, Systemic to pulmonary, Modified Blalock-Taussig Shunt (MBTS) <input type="checkbox"/> 5600=Status post - Shunt, Systemic to pulmonary, Central (shunt from aorta) <input type="checkbox"/> 7130=Status post - Shunt, Systemic to pulmonary, Central (shunt from aorta) Central shunt with an end-to-side connection between the transected main pulmonary artery and the side of the ascending aorta (i.e. Mee shunt) <input type="checkbox"/> 7230=Status post – Shunt, Systemic to pulmonary, Potts – Smith type (descending aorta to pulmonary artery) <input type="checkbox"/> 5610=Status post - Shunt, Systemic to pulmonary, Other <input type="checkbox"/> 5630=Status post - Shunt, Ligation and takedown <input type="checkbox"/> 6095=Status post - Shunt, Reoperation <input type="checkbox"/> 5640=Status post - PA banding (PAB) <input type="checkbox"/> 5650=Status post - PA debanding <input type="checkbox"/> 7200=Status post - PA band adjustment <input type="checkbox"/> 5660=Status post - Damus-Kaye-Stansel procedure (DKS) (creation of AP anastomosis without arch reconstruction) <input type="checkbox"/> 5670=Status post - Bidirectional cavopulmonary anastomosis (BDCPA) (bidirectional Glenn) <input type="checkbox"/> 5680=Status post - Glenn (unidirectional cavopulmonary anastomosis) (unidirectional Glenn) <input type="checkbox"/> 5690=Status post - Bilateral bidirectional cavopulmonary anastomosis (BBDCPA) (bilateral bidirectional Glenn) <input type="checkbox"/> 5700=Status post - HemiFontan <input type="checkbox"/> 6330=Status post - Superior cavopulmonary anastomosis(es) (Glenn or HemiFontan) + Atrioventricular valvuloplasty <input type="checkbox"/> 6130=Status post - Superior Cavopulmonary anastomosis(es) + PA reconstruction <input type="checkbox"/> 7300=Status post - Takedown of superior cavopulmonary anastomosis <input type="checkbox"/> 7140=Status post - Hepatic vein to azygous vein connection, Direct <input type="checkbox"/> 7150=Status post - Hepatic vein to azygous vein connection, Interposition graft <input type="checkbox"/> 7160=Status post - Kawashima operation (superior cavopulmonary connection in setting of interrupted IVC with azygous continuation) <input type="checkbox"/> 5710=Status post - Palliation, Other
<p>Mechanical Support</p>	<ul style="list-style-type: none"> <input type="checkbox"/> 6360=Status post - ECMO cannulation <input type="checkbox"/> 6370=Status post - ECMO decannulation <input type="checkbox"/> 5910=Status post - ECMO procedure <input type="checkbox"/> 5900=Status post - Intraaortic balloon pump (IABP) insertion <input type="checkbox"/> 5920=Status post - Right/left heart assist device procedure <input type="checkbox"/> 6390=Status post - VAD explantation <input type="checkbox"/> 6380=Status post - VAD implantation <input type="checkbox"/> 7170=Status post - VAD change out
<p>Anesthetic procedures</p>	<ul style="list-style-type: none"> <input type="checkbox"/> 6420=Status post - Echocardiography procedure, Sedated transesophageal echocardiogram <input type="checkbox"/> 6430=Status post - Echocardiography procedure, Sedated transthoracic echocardiogram

- 6435=Status post - Non-cardiovascular, Non-thoracic procedure on cardiac patient with cardiac anesthesia
- 6440=Status post - Radiology procedure on cardiac patient, Cardiac Computerized Axial Tomography (CT Scan)
- 6450=Status post - Radiology procedure on cardiac patient, Cardiac Magnetic Resonance Imaging (MRI)
- 6460=Status post - Radiology procedure on cardiac patient, Diagnostic radiology
- 6470=Status post - Radiology procedure on cardiac patient, Non-Cardiac Computerized Tomography (CT) on cardiac patient
- 6480=Status post - Radiology procedure on cardiac patient, Non-cardiac Magnetic Resonance Imaging (MRI) on cardiac patient
- 6490=Status post - Radiology procedure on cardiac patient, Therapeutic radiology

Miscellaneous Procedures

- 5720=Status post - Aneurysm, Ventricular, Right, Repair
- 5730=Status post - Aneurysm, Ventricular, Left, Repair
- 5740=Status post - Aneurysm, Pulmonary artery, Repair
- 5760=Status post - Cardiac tumor resection
- 5780=Status post - Pulmonary AV fistula repair/occlusion
- 5790=Status post - Ligation, Pulmonary artery
- 5802=Status post - Pulmonary embolectomy, Acute pulmonary embolus
- 5804=Status post - Pulmonary embolectomy, Chronic pulmonary embolus
- 5810=Status post - Pleural drainage procedure
- 5820=Status post - Pleural procedure, Other
- 5830=Status post - Ligation, Thoracic duct
- 5840=Status post - Decortication
- 5850=Status post - Esophageal procedure
- 5860=Status post - Mediastinal procedure
- 5870=Status post - Bronchoscopy
- 5880=Status post - Diaphragm plication
- 5890=Status post - Diaphragm procedure, Other
- 5930=Status post - VATS (video-assisted thoracoscopic surgery)
- 5940=Status post - Minimally invasive procedure
- 5950=Status post - Bypass for noncardiac lesion
- 5960=Status post - Delayed sternal closure
- 5970=Status post - Mediastinal exploration
- 5980=Status post - Sternotomy wound drainage
- 7180=Status post - Intravascular stent removal
- 7220= Status post – Removal of transcatheter delivered device from heart
- 7210= Status post – Removal of transcatheter delivered device from blood vessel
- 5990=Status post - Thoracotomy, Other
- 6000=Status post - Cardiotomy, Other
- 6010=Status post - Cardiac procedure, Other
- 6020=Status post - Thoracic and/or mediastinal procedure, Other
- 6030=Status post - Peripheral vascular procedure, Other
- 6040=Status post - Miscellaneous procedure, Other
- 11777=Status post - Other procedure

PROCEDURES

Septal Defects	ASD	<input type="checkbox"/> 10= PFO, Primary closure <input type="checkbox"/> 20= ASD repair, Primary closure <input type="checkbox"/> 30= ASD repair, Patch <input type="checkbox"/> 40= ASD repair, Device <input type="checkbox"/> 2110= ASD repair, Patch + PAPVC repair <input type="checkbox"/> 50= ASD, Common atrium (single atrium), Septation <input type="checkbox"/> 60= ASD creation/enlargement <input type="checkbox"/> 70= ASD partial closure <input type="checkbox"/> 80= Atrial septal fenestration <input type="checkbox"/> 85= Atrial fenestration closure
	VSD	<input type="checkbox"/> 100= VSD repair, Primary closure <input type="checkbox"/> 110= VSD repair, Patch <input type="checkbox"/> 120= VSD repair, Device <input type="checkbox"/> 130= VSD, Multiple, Repair <input type="checkbox"/> 140= VSD creation/enlargement <input type="checkbox"/> 150= Ventricular septal fenestration
	AV Canal	<input type="checkbox"/> 170= AVC (AVSD) repair, Complete (CAVSD) <input type="checkbox"/> 180= AVC (AVSD) repair, Intermediate (Transitional) <input type="checkbox"/> 190= AVC (AVSD) repair, Partial (Incomplete) (PAVSD) <input type="checkbox"/> 2300= Valvuloplasty, Common atrioventricular valve <input type="checkbox"/> 2250= Valvuloplasty converted to valve replacement in the same operation, Common atrioventricular valve <input type="checkbox"/> 2230= Valve replacement, Common atrioventricular valve
	AP Window	<input type="checkbox"/> 210= AP window repair <input type="checkbox"/> 220= Pulmonary artery origin from ascending aorta (hemitruncus) repair
	Truncus Arteriosus	<input type="checkbox"/> 230= Truncus arteriosus repair <input type="checkbox"/> 240= Valvuloplasty, Truncal valve <input type="checkbox"/> 2290= Valvuloplasty converted to valve replacement in the same operation, Truncal valve <input type="checkbox"/> 250= Valve replacement, Truncal valve <input type="checkbox"/> 2220= Truncus + Interrupted aortic arch repair (IAA) repair
Pulmonary Venous Anomalies	Partial Anomalous Pulmonary Venous Connection	<input type="checkbox"/> 260= PAPVC repair <input type="checkbox"/> 270= PAPVC, Scimitar, Repair <input type="checkbox"/> 2120= PAPVC repair, Baffle redirection to left atrium with systemic vein translocation (Warden) (SVC sewn to right atrial appendage)
	Total Anomalous Pulmonary Venous Connection	<input type="checkbox"/> 280= TAPVC repair <input type="checkbox"/> 2200= TAPVC repair + Shunt - systemic-to-pulmonary
Cor Triatriatum		<input type="checkbox"/> 290= Cor triatriatum repair
Pulmonary Venous Stenosis		<input type="checkbox"/> 300= Pulmonary venous stenosis repair
Systemic Venous Anomalies	Anomalous Systemic Venous Connection	<input type="checkbox"/> 310= Atrial baffle procedure (non-Mustard, non-Senning) <input type="checkbox"/> 330= Anomalous systemic venous connection repair
	Systemic venous obstruction	<input type="checkbox"/> 340= Systemic venous stenosis repair
	Tetralogy of Fallot	<input type="checkbox"/> 350= TOF repair, No Ventriculotomy <input type="checkbox"/> 360= TOF repair, Ventriculotomy, Nontransannular patch <input type="checkbox"/> 370= TOF repair, Ventriculotomy, Transannular patch

Right Heart Lesions

Pulmonary Atresia/VSD

- 3330= TOF repair, Ventriculotomy, Transannular patch, plus native valve reconstruction
- 3340= TOF repair, Ventriculotomy, Transannular patch, with monocusp or other surgically fashioned RVOT valve
- 380= TOF repair, RV-PA conduit
- 390= TOF - AVC (AVSD) repair
- 400= TOF - Absent pulmonary valve repair

- 420= Pulmonary atresia - VSD (including TOF, PA) repair
- 2700= Pulmonary atresia - VSD – MAPCA repair, Complete single stage repair (1 stage that includes bilateral pulmonary unifocalization + VSD closure + RV to PA connection [with or without conduit])
- 2710= Pulmonary atresia - VSD – MAPCA repair, Status post prior complete unifocalization (includes VSD closure + RV to PA connection [with or without conduit])
- 2720= Pulmonary atresia - VSD – MAPCA repair, Status post prior incomplete unifocalization (includes completion of pulmonary unifocalization + VSD closure + RV to PA connection [with or without conduit])
- 2730= Unifocalization MAPCA(s), Bilateral pulmonary unifocalization - Complete unifocalization (all usable MAPCA[s] are incorporated)
- 2740= Unifocalization MAPCA(s), Bilateral pulmonary unifocalization - Incomplete unifocalization (not all usable MAPCA[s] are incorporated)
- 2750= Unifocalization MAPCA(s), Unilateral pulmonary unifocalization
- 440= Unifocalization MAPCA(s)
- 450= Occlusion of MAPCA(s)

Tricuspid Valve Disease and Ebstein's Anomaly

- 460= Valvuloplasty, Tricuspid (do not use this code if tricuspid valve malfunction is secondary to Ebstein's anomaly. Use 465= Ebstein's repair)
- 2280= Valvuloplasty converted to valve replacement in the same operation, Tricuspid
- 465= Ebstein's repair
- 470= Valve replacement, Tricuspid (TVR)
- 480= Valve closure, Tricuspid (exclusion, univentricular approach)
- 490= Valve excision, Tricuspid (without replacement)
- 500= Valve surgery, Other, Tricuspid

RVOT Obstruction, IVS Pulmonary Stenosis

- 510= RVOT procedure
- 520= 1 1/2 ventricular repair
- 530= PA, reconstruction (plasty), Main (trunk)
- 540= PA, reconstruction (plasty), Branch, Central (within the hilar bifurcation)
- 550= PA, reconstruction (plasty), Branch, Peripheral (at or beyond the first lobar branch)
- 3350= PA, reconstruction (plasty), Branch, Peripheral (at or beyond the first lobar branch, proximal to first segmental branch)
- 3360= PA, reconstruction (plasty), Branch, Peripheral (at or beyond the first lobar branch, beyond the first segmental branch)
- 570= DCRV repair
- 3370= RV Rehabilitation, Endocardial Resection

Pulmonary Valve Disease

- 590= Valvuloplasty, Pulmonic
- 2270= Valvuloplasty converted to valve replacement in the same operation, Pulmonic
- 600= Valve replacement, Pulmonic (PVR)

		<input type="checkbox"/> 630= Valve excision, Pulmonary (without replacement) <input type="checkbox"/> 640= Valve closure, Semilunar <input type="checkbox"/> 650= Valve surgery, Other, Pulmonic
Conduit operations	Conduit operations	<input type="checkbox"/> 610= Conduit placement, RV to PA <input type="checkbox"/> 620= Conduit placement, LV to PA <input type="checkbox"/> 1774= Conduit placement, Ventricle to aorta <input type="checkbox"/> 1772= Conduit placement, Other
	Conduit Stenosis / Insufficiency	<input type="checkbox"/> 580= Conduit reoperation
Left Heart Lesions	Aortic Valve Disease	<input type="checkbox"/> 660= Valvuloplasty, Aortic <input type="checkbox"/> 2240= Valvuloplasty converted to valve replacement in the same operation, Aortic <input type="checkbox"/> 2310= Valvuloplasty converted to valve replacement in the same operation, Aortic – with Ross procedure <input type="checkbox"/> 2320= Valvuloplasty converted to valve replacement in the same operation, Aortic – with Ross-Konno procedure <input type="checkbox"/> 670= Valve replacement, Aortic (AVR) <input type="checkbox"/> 680= Valve replacement, Aortic (AVR), Mechanical <input type="checkbox"/> 690= Valve replacement, Aortic (AVR), Bioprosthetic <input type="checkbox"/> 700= Valve replacement, Aortic (AVR), Homograft <input type="checkbox"/> 715= Aortic root replacement, Bioprosthetic <input type="checkbox"/> 720= Aortic root replacement, Mechanical <input type="checkbox"/> 730= Aortic root replacement, Homograft <input type="checkbox"/> 735= Aortic root replacement, Valve sparing <input type="checkbox"/> 740= Ross procedure <input type="checkbox"/> 750= Konno procedure <input type="checkbox"/> 760= Ross-Konno procedure <input type="checkbox"/> 770= Other annular enlargement procedure <input type="checkbox"/> 780= Aortic stenosis, Subvalvar, Repair <input type="checkbox"/> 2100= Aortic stenosis, Subvalvar, Repair, With myectomy for IHSS <input type="checkbox"/> 790= Aortic stenosis, Supravalvar, Repair <input type="checkbox"/> 800= Valve surgery, Other, Aortic <input type="checkbox"/> 3380= Extended Ventricular Septoplasty (modified Konno, VSD creation and patch enlargement of LVOT, sparing aortic valve) for tunnel type sub aortic stenosis
	Sinus of Valsalva Aneurysm	<input type="checkbox"/> 810= Sinus of Valsalva, Aneurysm repair
	LV to Aorta Tunnel	<input type="checkbox"/> 820= LV to aorta tunnel repair
	Mitral Valve Disease	<input type="checkbox"/> 830= Valvuloplasty, Mitral <input type="checkbox"/> 2260= Valvuloplasty converted to valve replacement in the same operation, Mitral <input type="checkbox"/> 840= Mitral stenosis, Supravalvar mitral ring repair <input type="checkbox"/> 850= Valve replacement, Mitral (MVR) <input type="checkbox"/> 860= Valve surgery, Other, Mitral
	Hypoplastic Left Heart and Related malformations	<input type="checkbox"/> 870= Norwood procedure <input type="checkbox"/> 880= HLHS biventricular repair <input type="checkbox"/> 3390= LV Endocardial Fibroelastosis resection <input type="checkbox"/> 2755= Conduit insertion right ventricle to pulmonary artery + Intraventricular tunnel left ventricle to neo-aorta + arch reconstruction (Rastelli and Norwood type arch reconstruction) (Yasui)

Hybrid	<input type="checkbox"/> 2160= Hybrid Approach "Stage 1", Application of RPA & LPA bands <input type="checkbox"/> 2170= Hybrid Approach "Stage 1", Stent placement in arterial duct (PDA) <input type="checkbox"/> 2180= Hybrid Approach "Stage 1", Stent placement in arterial duct (PDA) + application of RPA & LPA bands <input type="checkbox"/> 2140= Hybrid approach "Stage 2", Aortopulmonary amalgamation + Superior Cavopulmonary anastomosis(es) + PA Debanding + Aortic arch repair (Norwood [Stage 1] + Superior Cavopulmonary anastomosis(es) + PA Debanding) <input type="checkbox"/> 2150= Hybrid approach "Stage 2", Aortopulmonary amalgamation + Superior Cavopulmonary anastomosis(es) + PA Debanding + Without aortic arch repair <input type="checkbox"/> 2760= Hybrid Approach, Transcardiac balloon dilatation <input type="checkbox"/> 2770= Hybrid Approach, Transcardiac transcatheter device placement
Cardiomyopathy	<input type="checkbox"/> 890= Transplant, Heart <input type="checkbox"/> 900= Transplant, Heart and lung <input type="checkbox"/> 910= Partial left ventriculectomy (LV volume reduction surgery) (Batista)
Pericardial Disease	<input type="checkbox"/> 920= Pericardial drainage procedure <input type="checkbox"/> 930= Pericardiectomy <input type="checkbox"/> 940= Pericardial procedure, Other
Single Ventricle	<input type="checkbox"/> 950= Fontan, Atrio-pulmonary connection <input type="checkbox"/> 960= Fontan, Atrio-ventricular connection <input type="checkbox"/> 970= Fontan, TCPC, Lateral tunnel, Fenestrated <input type="checkbox"/> 980= Fontan, TCPC, Lateral tunnel, Nonfenestrated <input type="checkbox"/> 1000= Fontan, TCPC, External conduit, Fenestrated <input type="checkbox"/> 1010= Fontan, TCPC, External conduit, Nonfenestrated <input type="checkbox"/> 2780= Fontan, TCPC, Intra/extracardiac conduit, Fenestrated <input type="checkbox"/> 2790= Fontan, TCPC, Intra/extracardiac conduit, Nonfenestrated <input type="checkbox"/> 3310 = Fontan, TCPC, External conduit, hepatic veins to pulmonary artery, Fenestrated <input type="checkbox"/> 3320 = Fontan, TCPC, External conduit, hepatic veins to pulmonary artery, Nonfenestrated <input type="checkbox"/> 1025= Fontan revision or conversion (Re-do Fontan) <input type="checkbox"/> 1030= Fontan, Other <input type="checkbox"/> 2340= Fontan + Atrioventricular valvuloplasty <input type="checkbox"/> 1035= Ventricular septation
Transposition of the Great Arteries	Congenitally Corrected TGA <input type="checkbox"/> 1050=Congenitally corrected TGA repair, Atrial switch and ASO (double switch) <input type="checkbox"/> 1060= Congenitally corrected TGA repair, Atrial switch and Rastelli <input type="checkbox"/> 1070= Congenitally corrected TGA repair, VSD closure <input type="checkbox"/> 1080= Congenitally corrected TGA repair, VSD closure and LV to PA conduit <input type="checkbox"/> 1090= Congenitally corrected TGA repair, Other
	Transposition of the Great Arteries <input type="checkbox"/> 1110= Arterial switch operation (ASO) <input type="checkbox"/> 1120= Arterial switch operation (ASO) and VSD repair <input type="checkbox"/> 1123= Arterial switch procedure + Aortic arch repair <input type="checkbox"/> 1125= Arterial switch procedure and VSD repair + Aortic arch repair <input type="checkbox"/> 1130= Senning <input type="checkbox"/> 1140= Mustard <input type="checkbox"/> 1145= Atrial baffle procedure, Mustard or Senning revision

		<input type="checkbox"/> 1150= Rastelli <input type="checkbox"/> 1160= REV <input type="checkbox"/> 2190= Aortic root translocation over left ventricle (Including Nikaidoh procedure) <input type="checkbox"/> 2210= TGA, Other procedures (Kawashima, LV-PA conduit, other) <input type="checkbox"/> 3400= Double root translocation
DORV		<input type="checkbox"/> 1180= DORV, Intraventricular tunnel repair <input type="checkbox"/> 3410= DORV repair, No Ventriculotomy <input type="checkbox"/> 3420= DORV repair, Ventriculotomy, Nontransannular patch <input type="checkbox"/> 3430= DORV repair, Ventriculotomy, Transannular patch <input type="checkbox"/> 3440= DORV repair, RV-PA conduit <input type="checkbox"/> 3450= DORV - AVC (AVSD) repair
DOLV		<input type="checkbox"/> 1200= DOLV repair
Thoracic Arteries and Veins	Coarctation of Aorta and Aortic arch hypoplasia	<input type="checkbox"/> 1210= Coarctation repair, End to end <input type="checkbox"/> 1220= Coarctation repair, End to end, Extended <input type="checkbox"/> 3460= Coarctation repair, Descending aorta anastomosed to Ascending aorta <input type="checkbox"/> 1230= Coarctation repair, Subclavian flap <input type="checkbox"/> 1240= Coarctation repair, Patch aortoplasty <input type="checkbox"/> 1250= Coarctation repair, Interposition graft <input type="checkbox"/> 3470= Coarctation repair, Extra-anatomic Bypass graft <input type="checkbox"/> 1260= Coarctation repair, Other <input type="checkbox"/> 1275= Coarctation repair + VSD repair <input type="checkbox"/> 1280= Aortic arch repair <input type="checkbox"/> 1285= Aortic arch repair + VSD repair
	Coronary Artery Anomalies	<input type="checkbox"/> 1290= Coronary artery fistula ligation <input type="checkbox"/> 1291= Anomalous origin of coronary artery from pulmonary artery repair <input type="checkbox"/> 1300= Coronary artery bypass <input type="checkbox"/> 1305= Anomalous aortic origin of coronary artery (AAOCA) repair <input type="checkbox"/> 1310= Coronary artery procedure, Other
	Interrupted Arch	<input type="checkbox"/> 1320= Interrupted aortic arch repair
	Patent Ductus Arteriosus	<input type="checkbox"/> 1330= PDA closure, Surgical <input type="checkbox"/> 1340= PDA closure, Device
	Vascular Rings and Slings	<input type="checkbox"/> 1360= Vascular ring repair <input type="checkbox"/> 1365= Aortopexy <input type="checkbox"/> 1370= Pulmonary artery sling repair
	Aortic Aneurysm	<input type="checkbox"/> 1380= Aortic aneurysm repair
	Aortic Dissection	<input type="checkbox"/> 1390= Aortic dissection repair
	Tracheal Stenosis	<input type="checkbox"/> 1440= Tracheal procedure
	Chest Wall	<input type="checkbox"/> 2800= Muscle flap, Trunk (i.e. intercostal, pectus, or serratus muscle) <input type="checkbox"/> 2810= Muscle flap, Trunk (i.e. latissimus dorsi) <input type="checkbox"/> 2820= Removal, Sternal wire <input type="checkbox"/> 2830= Rib excision, Complete <input type="checkbox"/> 2840= Rib excision, Partial <input type="checkbox"/> 2850= Sternal fracture, Open treatment <input type="checkbox"/> 2860= Sternal resection, Radical resection of the sternum

Thoracic and Mediastinal Disease		<input type="checkbox"/> 2870= Sternal resection, Radical resection of the sternum with mediastinal lymphadenectomy <input type="checkbox"/> 2880= Tumor of chest wall, Excision including ribs <input type="checkbox"/> 2890= Tumor of chest wall, Excision including ribs, With reconstruction <input type="checkbox"/> 2900= Tumor of soft tissue of thorax, Excision of deep subfascial or intramuscular tumor <input type="checkbox"/> 2910= Tumor of soft tissue of thorax, Excision of subcutaneous tumor <input type="checkbox"/> 2920= Tumor of soft tissue of thorax, Radical resection
	Neck	<input type="checkbox"/> 2930= Hyoid myotomy and suspension <input type="checkbox"/> 2940= Muscle flap, Neck <input type="checkbox"/> 2950= Procedure on neck <input type="checkbox"/> 2960= Tumor of soft tissue of neck, Excision of deep subfascial or intramuscular tumor <input type="checkbox"/> 2970= Tumor of soft tissue of neck, Excision of subcutaneous tumor <input type="checkbox"/> 2980= Tumor of soft tissue of neck, Radical resection
	Pectus Excavatum, Carinatum	<input type="checkbox"/> 2990= Pectus bar removal <input type="checkbox"/> 3000= Pectus bar repositioning <input type="checkbox"/> 3010= Pectus repair, Minimally invasive repair (Nuss), With thoracoscopy <input type="checkbox"/> 3020= Pectus repair, Minimally invasive repair (Nuss), Without thoracoscopy <input type="checkbox"/> 3030= Pectus repair, Open repair
	Thoracic Outlet	<input type="checkbox"/> 3040= Division of scalenus anticus, With resection of a cervical rib <input type="checkbox"/> 3050= Division of scalenus anticus, Without resection of a cervical rib <input type="checkbox"/> 3060= Rib excision, Excision of a cervical rib <input type="checkbox"/> 3070= Rib excision, Excision of a cervical rib, With sympathectomy <input type="checkbox"/> 3080= Rib excision, Excision of first rib <input type="checkbox"/> 3090= Rib excision, Excision of first rib, With sympathectomy
	Thorax	<input type="checkbox"/> 3100= Procedure on thorax
Electrophysiological		<input type="checkbox"/> 1450= Pacemaker implantation, Permanent <input type="checkbox"/> 1460= Pacemaker procedure <input type="checkbox"/> 2350= Explantation of pacing system <input type="checkbox"/> 1470= ICD (AICD) implantation <input type="checkbox"/> 1480= ICD (AICD) ([automatic] implantable cardioverter defibrillator) procedure <input type="checkbox"/> 1490= Arrhythmia surgery - atrial, Surgical Ablation <input type="checkbox"/> 1500= Arrhythmia surgery - ventricular, Surgical Ablation
Interventional Cardiology Procedures		<input type="checkbox"/> 2500= Cardiovascular catheterization procedure, Diagnostic <input type="checkbox"/> 2520= Cardiovascular catheterization procedure, Diagnostic, Angiographic data obtained <input type="checkbox"/> 2550= Cardiovascular catheterization procedure, Diagnostic, Electrophysiology alteration <input type="checkbox"/> 2540= Cardiovascular catheterization procedure, Diagnostic, Hemodynamic alteration <input type="checkbox"/> 2510= Cardiovascular catheterization procedure, Diagnostic, Hemodynamic data obtained <input type="checkbox"/> 2530= Cardiovascular catheterization procedure, Diagnostic, Transluminal test occlusion <input type="checkbox"/> 2410= Cardiovascular catheterization procedure, Therapeutic

- 2670= Cardiovascular catheterization procedure, Therapeutic, Adjunctive therapy
- 1540= Cardiovascular catheterization procedure, Therapeutic, Balloon dilation
- 2590= Cardiovascular catheterization procedure, Therapeutic, Balloon valvotomy
- 1580= Cardiovascular catheterization procedure, Therapeutic, Coil implantation
- 1560= Cardiovascular catheterization procedure, Therapeutic, Device implantation
- 3110= Cardiovascular catheterization procedure, Therapeutic, Device implantation attempted
- 2690= Cardiovascular catheterization procedure, Therapeutic, Electrophysiological ablation
- 3120= Cardiovascular catheterization procedure, Therapeutic, Intravascular foreign body removal
- 2640= Cardiovascular catheterization procedure, Therapeutic, Perforation (establishing interchamber and/or intervessel communication)
- 2580= Cardiovascular catheterization procedure, Therapeutic, Septostomy
- 1550= Cardiovascular catheterization procedure, Therapeutic, Stent insertion
- 2630= Cardiovascular catheterization procedure, Therapeutic, Stent re-dilation
- 2650= Cardiovascular catheterization procedure, Therapeutic, Transcatheter Fontan completion
- 2660= Cardiovascular catheterization procedure, Therapeutic, Transcatheter implantation of valve

Palliative Procedures

- 1590= Shunt, Systemic to pulmonary, Modified Blalock-Taussig Shunt (MBTS)
- 1600= Shunt, Systemic to pulmonary, Central (shunt from aorta)
- 3130= Shunt, Systemic to pulmonary, Central (shunt from aorta) Central shunt with an end-to-side connection between the transected main pulmonary artery and the side of the ascending aorta (i.e. Mee shunt)
- 3230= Shunt, Systemic to pulmonary, Potts – Smith type (descending aorta to pulmonary artery)
- 1610= Shunt, Systemic to pulmonary, Other
- 1630= Shunt, Ligation and takedown
- 2095= Shunt, Reoperation
- 1640= PA banding (PAB)
- 1650= PA debanding
- 3200= PA band adjustment
- 1660= Damus-Kaye-Stansel procedure (DKS) (creation of AP anastomosis without arch reconstruction)
- 1670= Bidirectional cavopulmonary anastomosis (BDCPA) (bidirectional Glenn)
- 1680= Glenn (unidirectional cavopulmonary anastomosis) (unidirectional Glenn)
- 1690= Bilateral bidirectional cavopulmonary anastomosis (BBDCPA) (bilateral bidirectional Glenn)
- 1700= HemiFontan
- 2330= Superior cavopulmonary anastomosis(es) (Glenn or HemiFontan) + Atrioventricular valvuloplasty
- 2130= Superior Cavopulmonary anastomosis(es) + PA reconstruction
- 3300 = Takedown of superior cavopulmonary anastomosis
- 3140= Hepatic vein to azygous vein connection, Direct

	<ul style="list-style-type: none"> <input type="checkbox"/> 3150= Hepatic vein to azygous vein connection, Interposition graft <input type="checkbox"/> 3160= Kawashima operation (superior cavopulmonary connection in setting of interrupted IVC with azygous continuation) <input type="checkbox"/> 1710= Palliation, Other
Mechanical Support	<ul style="list-style-type: none"> <input type="checkbox"/> 2360= ECMO cannulation <input type="checkbox"/> 2370= ECMO decannulation <input type="checkbox"/> 1910= ECMO procedure <input type="checkbox"/> 1900= Intraaortic balloon pump (IABP) insertion <input type="checkbox"/> 1920= Right/left heart assist device procedure <input type="checkbox"/> 2390= VAD explantation <input type="checkbox"/> 2380= VAD implantation <input type="checkbox"/> 3170= VAD change out
Anesthetic procedures	<ul style="list-style-type: none"> <input type="checkbox"/> 2420= Echocardiography procedure, Sedated transesophageal echocardiogram <input type="checkbox"/> 2430= Echocardiography procedure, Sedated transthoracic echocardiogram <input type="checkbox"/> 2435= Non-cardiovascular, Non-thoracic procedure on cardiac patient with cardiac anesthesia <input type="checkbox"/> 2440= Radiology procedure on cardiac patient, Cardiac Computerized Axial Tomography (CT Scan) <input type="checkbox"/> 2450= Radiology procedure on cardiac patient, Cardiac Magnetic Resonance Imaging (MRI) <input type="checkbox"/> 2460= Radiology procedure on cardiac patient, Diagnostic radiology <input type="checkbox"/> 2470= Radiology procedure on cardiac patient, Non-Cardiac Computerized Tomography (CT) on cardiac patient <input type="checkbox"/> 2480= Radiology procedure on cardiac patient, Non-cardiac Magnetic Resonance Imaging (MRI) on cardiac patient <input type="checkbox"/> 2490= Radiology procedure on cardiac patient, Therapeutic radiology

Miscellaneous Procedures

- 1720= Aneurysm, Ventricular, Right, Repair
- 1730= Aneurysm, Ventricular, Left, Repair
- 1740= Aneurysm, Pulmonary artery, Repair
- 1760= Cardiac tumor resection
- 1780= Pulmonary AV fistula repair/occlusion
- 1790= Ligation, Pulmonary artery
- 1802= Pulmonary embolectomy, Acute pulmonary embolus
- 1804= Pulmonary embolectomy, Chronic pulmonary embolus
- 1810= Pleural drainage procedure
- 1820= Pleural procedure, Other
- 1830= Ligation, Thoracic duct
- 1840= Decortication
- 1850= Esophageal procedure
- 1860= Mediastinal procedure
- 1870= Bronchoscopy
- 1880= Diaphragm plication
- 1890= Diaphragm procedure, Other
- 1930= VATS (video-assisted thoracoscopic surgery)
- 1940= Minimally invasive procedure
- 1950= Bypass for noncardiac lesion
- 1960= Delayed sternal closure
- 1970= Mediastinal exploration
- 1980= Sternotomy wound drainage
- 3180= Intravascular stent removal
- 3220= Removal of transcatheter delivered device from heart
- 3210= Removal of transcatheter delivered device from blood vessel
- 1990= Thoracotomy, Other
- 2000= Cardiotomy, Other
- 2010= Cardiac procedure, Other
- 2020= Thoracic and/or mediastinal procedure, Other
- 2030= Peripheral vascular procedure, Other
- 2040= Miscellaneous procedure, Other
- 2050= Organ procurement
- 7777= Other procedure