

Study Number

Operation Date (DD/MMM/YYYY) //

Event Number

- AVSD Repair**
- Initial Repair, no previous interventions
 - Initial Repair, following previous intervention
 - Re-repair

- AVSD Patch**
- Modified Single Patch
 - Single Patch
 - 2-Patch Repair
 - AVSD Patch Revision Not Required

- Surgical Classification Type**
- Rastelli Type A
 - Rastelli Type B
 - Rastelli Type C
 - Not in Report

Single Patch
Single Patch Type
<input type="checkbox"/> Gore-tex
<input type="checkbox"/> Dacron
<input type="checkbox"/> Bovine Pericardium
<input type="checkbox"/> Autologous Pericardium
<input type="checkbox"/> Allograft
<input type="checkbox"/> Other
<input type="checkbox"/> Cormatrix + Autologous Pericardium
<input type="checkbox"/> Pericardium-Type Unspecified
Single Patch Suture Line
<input type="checkbox"/> Continuous
<input type="checkbox"/> Interrupted

Modified Single Patch (Nunn)
ASD patch (as part of the "No patch" Graham Nunn repair)
<input type="checkbox"/> Gore-tex
<input type="checkbox"/> Dacron
<input type="checkbox"/> Bovine Pericardium
<input type="checkbox"/> Autologous Pericardium
<input type="checkbox"/> Allograft
<input type="checkbox"/> Other
<input type="checkbox"/> Cormatrix + Autologous Pericardium
<input type="checkbox"/> Pericardium-Type Unspecified
ASD Patch Suture Line
<input type="checkbox"/> Continuous
<input type="checkbox"/> Interrupted

Two Patch	
Annular Incision of Bridging Leaflets	<input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> Not in Report <input type="checkbox"/> Not Applicable
VSD Patch	ASD Patch
<input type="checkbox"/> Gore-tex <input type="checkbox"/> Dacron <input type="checkbox"/> Bovine pericardium <input type="checkbox"/> Autologous pericardium <input type="checkbox"/> Allograft <input type="checkbox"/> Other <input type="checkbox"/> Cormatrix + Autologous Pericardium <input type="checkbox"/> Pericardium-Type Unspecified	<input type="checkbox"/> Gore-tex <input type="checkbox"/> Dacron <input type="checkbox"/> Bovine pericardium <input type="checkbox"/> Autologous pericardium <input type="checkbox"/> Allograft <input type="checkbox"/> Other <input type="checkbox"/> Cormatrix + Autologous Pericardium <input type="checkbox"/> Pericardium-Type Unspecified
VSD Patch Suture Line	ASD Patch Suture Line
<input type="checkbox"/> Continuous <input type="checkbox"/> Interrupted	<input type="checkbox"/> Continuous <input type="checkbox"/> Interrupted

Fenestrations	Atrial	<input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> Not in Report <input type="checkbox"/> Not Applicable
		If yes, size _____mm
	Ventricular	<input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> Not in Report <input type="checkbox"/> Not Applicable

If yes, size _____mm

AV Valve Procedure

Cleft Closure	<input type="checkbox"/> No	<input type="checkbox"/> Yes-complete	<input type="checkbox"/> Yes-partial	<input type="checkbox"/> Not in Report
Annuloplasty	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> Not in Report	<input type="checkbox"/> Not Applicable
Chordal Resuspension	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> Not in Report	<input type="checkbox"/> Not Applicable
Leaflet Repair/Augmentation	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> Not in Report	<input type="checkbox"/> Not Applicable
Valve Replacement	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> Not in Report	<input type="checkbox"/> Not Applicable

Valve Type Single Valve Double Valve

If Single Valve

Location of Valve:

LAVV	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> Not in Report	<input type="checkbox"/> Not Applicable	If yes,s ize (mm): _____
RAVV	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> Not in Report	<input type="checkbox"/> Not Applicable	If yes,s ize (mm): _____
AoV	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> Not in Report	<input type="checkbox"/> Not Applicable	If yes,s ize (mm): _____
Pulm	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> Not in Report	<input type="checkbox"/> Not Applicable	If yes,s ize (mm): _____

Valve Type: Tissue Mechanical

If Double Valve

Location of Valve 1:

LAVV	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> Not in Report	<input type="checkbox"/> Not Applicable	If yes,s ize (mm): _____
RAVV	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> Not in Report	<input type="checkbox"/> Not Applicable	If yes,s ize (mm): _____
AoV	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> Not in Report	<input type="checkbox"/> Not Applicable	If yes,s ize (mm): _____
Pulm	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> Not in Report	<input type="checkbox"/> Not Applicable	If yes,s ize (mm): _____

Location of Valve 2:

LAVV	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> Not in Report	<input type="checkbox"/> Not Applicable	If yes,s ize (mm): _____
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RAVV No Yes Not in Report Not Applicable If yes,s ize (mm): _____

AoV No Yes Not in Report Not Applicable If yes,s ize (mm): _____

Pulm No Yes Not in Report Not Applicable If yes,s ize (mm): _____

Valve Type: Valve 1 Tissue Mechanical
 Valve 2 Tissue Mechanical

Concomitant Procedure 1:

- Damus-Kaye-Stansel procedure (DKS) (creation of AP anastomosis without arch reconstruction)
- Cavopulmonary anastomosis Bidirectional (BDCPA) (bidirectional Glenn)
- Cavopulmonary Glenn (unidirectional cavopulmonary anastomosis) (unidirectional Glenn)
- Cavopulmonary Bilateral bidirectional cavopulmonary anastomosis (BBDCPA) (bilateral bidirectional Glenn)
- HemiFontan
- Cavopulmonary anastomosis(es) (Glenn or HemiFontan) + Atrioventricular valvuloplasty
- Cavopulmonary anastomosis(es) + PA reconstruction (Superior)
- Palliation, Other (if other explain)
- ECMO cannulation
- ECMO decannulation
- ECMO procedure
- Intraaortic balloon pump (IABP) insertion
- Right/left heart assist device procedure
- VAD explantation
- VAD implantation
- Echocardiography procedure, Sedated transesophageal echocardiogram
- Echocardiography procedure, Sedated transthoracic echocardiogram
- Non-cardiovascular, Non-thoracic procedure on cardiac patient with cardiac anesthesia
- Radiology procedure on cardiac patient, Cardiac Computerized Axial Tomography (CT Scan)
- Radiology procedure on cardiac patient, Cardiac Magnetic Resonance Imaging (MRI)
- Radiology procedure on cardiac patient, Diagnostic radiology
- Radiology procedure on cardiac patient, Non-Cardiac Computerized Tomography (CT) on cardiac patient
- Radiology procedure on cardiac patient, Non-cardiac Magnetic Resonance Imaging (MRI) on cardiac patient
- Radiology procedure on cardiac patient, Therapeutic radiology
- Aneurysm, Ventricular, Right, Repair
- Aneurysm, Ventricular, Left, Repair
- Aneurysm, Pulmonary artery, Repair
- Cardiac tumor resection
- Pulmonary AV fistula repair/occlusion
- Pulmonary artery Ligation
- Pulmonary embolectomy, Acute pulmonary embolus

- Pulmonary embolectomy, Chronic pulmonary embolus
- Pleural drainage procedure
- Pleural procedure, Other
- Thoracic ductLigation
- Decortication
- Esophageal procedure
- Mediastinal procedure
- Bronchoscopy
- Diaphragm placation
- Diaphragm procedure, Other
- VATS (video-assisted thoracoscopic surgery)
- Minimally invasive procedure
- Bypass for noncardiac lesion
- Delayed sternal closure
- Mediastinal exploration
- Sternotomy wound drainage
- Thoracotomy, Other
- Cardiotomy, Other
- Cardiac procedure, Other
- Thoracic and/or mediastinal procedure, Other
- Peripheral vascular procedure, Other
- Miscellaneous procedure, Other
- Organ procurement
- Other procedure (if other explain)
- ASD PFO, Primary closure
- ASD repair, Primary closure
- ASD repair, Patch
- ASD repair, Device
- ASD repair, Patch + PAPVC repair
- ASD, Common atrium (single atrium), Septation
- ASD creation/enlargement
- ASD partial closure
- Atrial septal fenestration
- Atrial fenestration closure
- VSD repair, Primary closure
- VSD repair, Patch
- VSD repair, Device
- VSD, Multiple, Repair
- VSD creation/enlargement
- Ventricular septal fenestration
- AVC (AVSD) repair, Complete (CAVSD)
- AVC (AVSD) repair, Intermediate (Transitional)
- AVC (AVSD) repair, Partial (Incomplete) (PAVSD)
- Common atrioventricular valve Valvuloplasty,

- Common atrioventricular valve Valvuloplasty converted to valve replacement in the same operation,
- Valve replacement, Common atrioventricular valve
- AP window repair
- Pulmonary artery origin from ascending aorta (hemitruncus) repair
- Truncus arteriosus repair
- Truncal Valvuloplasty
- Truncal valve Valvuloplasty converted to valve replacement in the same operation
- Truncal Valve replacement
- Truncus + Interrupted aortic arch repair (IAA) repair
- PAPVC repair
- PAPVC, Scimitar, Repair
- PAPVC repair, Baffle redirection to left atrium with systemic vein translocation (Warden) (SVC sewn to right atrial appendage)
- TAPVC repair
- TAPVC repair + Shunt - systemic-to-pulmonary
- Cor triatriatum repair
- Pulmonary venous stenosis repair
- TGA Atrial baffle procedure (non-Mustard, non-Senning)
- Vein Anomalous systemic venous connection repair
- Vein Systemic venous stenosis repair
- TOF repair, No ventriculotomy
- TOF repair, Ventriculotomy, Nontransannular patch
- TOF repair, Ventriculotomy, Transannular patch
- TOF repair, RV-PA conduit
- TOF - AVC (AVSD) repair
- TOF - Absent pulmonary valve repair
- Pulmonary atresia - VSD (including TOF, PA) repair
- Pulmonary atresia - VSD - MAPCA (pseudotruncus) repair
- MAPCA(s) Unifocalization
- MAPCA(s) Occlusion
- Tricuspid Valvuloplasty
- Tricuspid Valvuloplasty converted to valve replacement in the same operation
- Tricuspid Ebstein's repair
- Tricuspid (TVR) Valve replacement
- Tricuspid Valve closure (exclusion, univentricular approach)
- Tricuspid Valve excision (without replacement)
- Tricuspid Valve surgery Other explain
- RVOT procedure
- 1 1/2 ventricular repair
- PA, reconstruction (plasty), Main (trunk)
- PA, reconstruction (plasty), Branch, Central (within the hilar bifurcation)
- PA, reconstruction (plasty), Branch, Peripheral (at or beyond the hilar bifurcation)
- DCRV repair
- Pulmonic Valvuloplasty
- Pulmonic Valvuloplasty converted to valve replacement in the same operation

- Pulmonic (PVR) Valve replacement,
- Pulmonary Valve excision, (without replacement)
- Valve closure, Semilunar
- Pulmonic Valve surgery, Other
- Conduit placement, RV to PA
- Conduit placement, LV to PA
- Conduit placement, Ventricle to aorta
- Conduit placement, Other
- Conduit reoperation
- Aortic Valvuloplasty,
- Aortic Valvuloplasty converted to valve replacement in the same operation,
- Aortic – with Ross procedure Valvuloplasty converted to valve replacement in the same operation,
- Aortic – with Ross-Konno procedure Valvuloplasty converted to valve replacement in the same operation,
- Aortic (AVR) Valve replacement,
- Aortic (AVR) Valve replacement Mechanical
- Aortic (AVR) Valve replacement Bioprosthetic
- Aortic (AVR) Valve replacement, Homograft
- Aortic root replacement, Bioprosthetic
- Aortic root replacement, Mechanical
- Aortic root replacement, Homograft
- Aortic root replacement, Valve sparing
- Aortic Ross procedure
- Aortic Konno procedure
- Aortic Ross-Konno procedure
- Aortic Other annular enlargement procedure
- Aortic stenosis, Subvalvar, Repair
- SubAortic stenosis, myectomy for HOCM
- Aortic stenosis, Supravalvar, Repair
- Aortic Other Valve surgery,
- Aneurysm Sinus of Valsalva, repair
- Aorta-LV tunnel repair
- Mitral Valvuloplasty
- Mitral Valvuloplasty converted to valve replacement in the same operation
- Mitral stenosis, Supravalvar mitral ring repair
- Mitral (MVR Valve replacement,)
- Mitral Valve surgery, Other,
- Norwood procedure
- HLHS biventricular repair
- Norwood Hybrid 1st Stage, RPA & LPA bands
- Norwood Hybrid 1st Stage, PDA Stent placement in arterial duct
- Norwood Hybrid 1st Stage, Bilateral PAB band and PDA Stent placement
- Norwood Hybrid 2nd Stage, Ao/P amalgamation + Cavopulmonary anastomosis(es) + PA Debanding + AA repair
- Norwood Hybrid 2nd Stage, Aortopulmonary amalgamation + Superior Cavopulmonary anastomosis(es) + PA Debanding + Wit
- Transplant, Heart

- Transplant, Heart and lung
- Partial left ventriculectomy (LV volume reduction surgery) (Batista)
- Pericardial drainage procedure
- Pericardiectomy
- Pericardial procedure, Other
- Fontan, Atrio-pulmonary connection
- Fontan, Atrio-ventricular connection
- Fontan, TCPC, Lateral tunnel, Fenestrated
- Fontan, TCPC, Lateral tunnel, Nonfenestrated
- Fontan, TCPC, External conduit, Fenestrated
- Fontan, TCPC, External conduit, Nonfenestrated
- Fontan revision or conversion (Re-do Fontan)
- Fontan, Other
- Fontan + Atrioventricular valvuloplasty
- Ventricular septation
- Congenitally corrected TGA repair, Atrial switch and ASO (double switch)
- Congenitally corrected TGA repair, Atrial switch and Rastelli
- Congenitally corrected TGA repair, VSD closure
- Congenitally corrected TGA repair, VSD closure and LV to PA conduit
- Congenitally corrected TGA repair, Other
- TGA Arterial switch operation (ASO)
- TGA Arterial switch operation (ASO) and VSD repair
- TGA Arterial switch procedure + Aortic arch repair
- TGA Arterial switch procedure and VSD repair + Aortic arch repair
- TGA Senning
- TGA Mustard
- TGA Atrial baffle procedure, Mustard or Senning revision
- TGA Rastelli
- REV
- Aortic root translocation over left ventricle (Including Nikaidoh procedure)
- TGA, Other procedures (Kawashima, LV-PA conduit, other)
- DORV, Intraventricular tunnel repair
- DOLV repair
- Coarctation repair, End to end
- Coarctation repair, End to end, Extended
- Coarctation repair, Subclavian flap
- Coarctation repair, Patch aortoplasty
- Coarctation repair, Interposition graft
- Coarctation repair, Other
- Coarctation repair + VSD repair
- Aortic arch repair
- Aortic arch repair + VSD repair
- Coronary artery fistula ligation
- Coronary artery Anomalous origin of coronary artery from pulmonary artery repair

- Coronary artery bypass
- Coronary artery Anomalous aortic origin of coronary artery from aorta (AAOCA) repair
- Coronary artery procedure, Other
- Interrupted aortic arch repair
- PDA closure, Surgical
- PDA closure, Device
- Vascular ring repair
- Aortopexy
- Pulmonary artery sling repair
- Aneurysm Aortic aneurysm repair
- Aneurysm Aortic dissection repair
- Lung biopsy
- Transplant, lung(s)
- Lung procedure, Other
- Pectus repair
- Tracheal procedure
- Pacemaker implantation, Permanent
- Pacemaker procedure
- Pacemaker explantation
- Pacemaker ICD (AICD) implantation
- Pacemaker ICD (AICD) ([automatic] implantable cardioverter defibrillator) procedure
- Arrhythmia surgery - atrial, Surgical Ablation
- Arrhythmia surgery - ventricular, Surgical Ablation
- Cardiovascular catheterization procedure, Diagnostic
- Cardiovascular catheterization procedure, Diagnostic, Angiographic data obtained
- Cardiovascular catheterization procedure, Diagnostic, Electrophysiology alteration
- Cardiovascular catheterization procedure, Diagnostic, Hemodynamic alteration
- Cardiovascular catheterization procedure, Diagnostic, Hemodynamic data obtained
- Cardiovascular catheterization procedure, Diagnostic, Transluminal test occlusion
- Cardiovascular catheterization procedure, Therapeutic
- Cardiovascular catheterization procedure, Therapeutic, Adjunctive therapy
- Cardiovascular catheterization procedure, Therapeutic, Balloon dilation
- Cardiovascular catheterization procedure, Therapeutic, Balloon valvotomy
- Cardiovascular catheterization procedure, Therapeutic, Coil implantation
- Cardiovascular catheterization procedure, Therapeutic, Device implantation
- Cardiovascular catheterization procedure, Therapeutic, Perforation (establishing interchamber and/or intervessel communication)
- Cardiovascular catheterization procedure, Therapeutic, Septostomy
- Cardiovascular catheterization procedure, Therapeutic, Stent insertion
- Cardiovascular catheterization procedure, Therapeutic, Stent re-dilation
- Cardiovascular catheterization procedure, Therapeutic, Transcatheter Fontan completion
- Cardiovascular catheterization procedure, Therapeutic, Transcatheter implantation of valve
- Cardiovascular electrophysiological catheterization procedure
- Cardiovascular electrophysiological catheterization procedure, Therapeutic ablation
- Shunt, Systemic to pulmonary, Modified Blalock-Taussig Shunt (MBTS)

- Shunt, Systemic to pulmonary, Central (from aorta or to main pulmonary artery)
- Shunt, Systemic to pulmonary, Other
- Shunt, Ligation and takedown
- Shunt, Reoperation
- PA banding (PAB)
- PA debanding

If other, specify: _____

Concomitant Procedure 1:

- Damus-Kaye-Stansel procedure (DKS) (creation of AP anastomosis without arch reconstruction)
- Cavopulmonary anastomosis Bidirectional (BDCPA) (bidirectional Glenn)
- Cavopulmonary Glenn (unidirectional cavopulmonary anastomosis) (unidirectional Glenn)
- Cavopulmonary Bilateral bidirectional cavopulmonary anastomosis (BBDCPA) (bilateral bidirectional Glenn)
- HemiFontan
- Cavopulmonary anastomosis(es) (Glenn or HemiFontan) + Atrioventricular valvuloplasty
- Cavopulmonary anastomosis(es) + PA reconstruction (Superior)
- Palliation, Other (if other explain)
- ECMO cannulation
- ECMO decannulation
- ECMO procedure
- Intraaortic balloon pump (IABP) insertion
- Right/left heart assist device procedure
- VAD explantation
- VAD implantation
- Echocardiography procedure, Sedated transesophageal echocardiogram
- Echocardiography procedure, Sedated transthoracic echocardiogram
- Non-cardiovascular, Non-thoracic procedure on cardiac patient with cardiac anesthesia
- Radiology procedure on cardiac patient, Cardiac Computerized Axial Tomography (CT Scan)
- Radiology procedure on cardiac patient, Cardiac Magnetic Resonance Imaging (MRI)
- Radiology procedure on cardiac patient, Diagnostic radiology
- Radiology procedure on cardiac patient, Non-Cardiac Computerized Tomography (CT) on cardiac patient
- Radiology procedure on cardiac patient, Non-cardiac Magnetic Resonance Imaging (MRI) on cardiac patient
- Radiology procedure on cardiac patient, Therapeutic radiology
- Aneurysm, Ventricular, Right, Repair
- Aneurysm, Ventricular, Left, Repair
- Aneurysm, Pulmonary artery, Repair
- Cardiac tumor resection
- Pulmonary AV fistula repair/occlusion
- Pulmonary artery Ligation
- Pulmonary embolectomy, Acute pulmonary embolus
- Pulmonary embolectomy, Chronic pulmonary embolus
- Pleural drainage procedure
- Pleural procedure, Other

- Thoracic ductLigation
- Decortication
- Esophageal procedure
- Mediastinal procedure
- Bronchoscopy
- Diaphragm placation
- Diaphragm procedure, Other
- VATS (video-assisted thoracoscopic surgery)
- Minimally invasive procedure
- Bypass for noncardiac lesion
- Delayed sternal closure
- Mediastinal exploration
- Sternotomy wound drainage
- Thoracotomy, Other
- Cardiotomy, Other
- Cardiac procedure, Other
- Thoracic and/or mediastinal procedure, Other
- Peripheral vascular procedure, Other
- Miscellaneous procedure, Other
- Organ procurement
- Other procedure (if other explain)
- ASD PFO, Primary closure
- ASD repair, Primary closure
- ASD repair, Patch
- ASD repair, Device
- ASD repair, Patch + PAPVC repair
- ASD, Common atrium (single atrium), Septation
- ASD creation/enlargement
- ASD partial closure
- Atrial septal fenestration
- Atrial fenestration closure
- VSD repair, Primary closure
- VSD repair, Patch
- VSD repair, Device
- VSD, Multiple, Repair
- VSD creation/enlargement
- Ventricular septal fenestration
- AVC (AVSD) repair, Complete (CAVSD)
- AVC (AVSD) repair, Intermediate (Transitional)
- AVC (AVSD) repair, Partial (Incomplete) (PAVSD)
- Common atrioventricular valve Valvuloplasty,
- Common atrioventricular valve Valvuloplasty converted to valve replacement in the same operation,
- Valve replacement, Common atrioventricular valve
- AP window repair

- Pulmonary artery origin from ascending aorta (hemitruncus) repair
- Truncus arteriosus repair
- Truncal Valvuloplasty
- Truncal valve Valvuloplasty converted to valve replacement in the same operation
- Truncal Valve replacement
- Truncus + Interrupted aortic arch repair (IAA) repair
- PAPVC repair
- PAPVC, Scimitar, Repair
- PAPVC repair, Baffle redirection to left atrium with systemic vein translocation (Warden) (SVC sewn to right atrial appendage)
- TAPVC repair
- TAPVC repair + Shunt - systemic-to-pulmonary
- Cor triatriatum repair
- Pulmonary venous stenosis repair
- TGA Atrial baffle procedure (non-Mustard, non-Senning)
- Vein Anomalous systemic venous connection repair
- Vein Systemic venous stenosis repair
- TOF repair, No ventriculotomy
- TOF repair, Ventriculotomy, Nontransannular patch
- TOF repair, Ventriculotomy, Transannular patch
- TOF repair, RV-PA conduit
- TOF - AVC (AVSD) repair
- TOF - Absent pulmonary valve repair
- Pulmonary atresia - VSD (including TOF, PA) repair
- Pulmonary atresia - VSD - MAPCA (pseudotruncus) repair
- MAPCA(s) Unifocalization
- MAPCA(s) Occlusion
- Tricuspid Valvuloplasty
- Tricuspid Valvuloplasty converted to valve replacement in the same operation
- Tricuspid Ebstein's repair
- Tricuspid (TVR) Valve replacement
- Tricuspid Valve closure (exclusion, univentricular approach)
- Tricuspid Valve excision (without replacement)
- Tricuspid Valve surgery Other explain
- RVOT procedure
- 1 1/2 ventricular repair
- PA, reconstruction (plasty), Main (trunk)
- PA, reconstruction (plasty), Branch, Central (within the hilar bifurcation)
- PA, reconstruction (plasty), Branch, Peripheral (at or beyond the hilar bifurcation)
- DCRV repair
- Pulmonic Valvuloplasty
- Pulmonic Valvuloplasty converted to valve replacement in the same operation
- Pulmonic (PVR) Valve replacement,
- Pulmonary Valve excision, (without replacement)
- Valve closure, Semilunar

- Pulmonic Valve surgery, Other
- Conduit placement, RV to PA
- Conduit placement, LV to PA
- Conduit placement, Ventricle to aorta
- Conduit placement, Other
- Conduit reoperation
- Aortic Valvuloplasty,
- Aortic Valvuloplasty converted to valve replacement in the same operation,
- Aortic – with Ross procedure Valvuloplasty converted to valve replacement in the same operation,
- Aortic – with Ross-Konno procedure Valvuloplasty converted to valve replacement in the same operation,
- Aortic (AVR) Valve replacement,
- Aortic (AVR) Valve replacement Mechanical
- Aortic (AVR) Valve replacement Bioprosthetic
- Aortic (AVR) Valve replacement, Homograft
- Aortic root replacement, Bioprosthetic
- Aortic root replacement, Mechanical
- Aortic root replacement, Homograft
- Aortic root replacement, Valve sparing
- Aortic Ross procedure
- Aortic Konno procedure
- Aortic Ross-Konno procedure
- Aortic Other annular enlargement procedure
- Aortic stenosis, Subvalvar, Repair
- SubAortic stenosis, myectomy for HOCM
- Aortic stenosis, Supravalvar, Repair
- Aortic Other Valve surgery,
- Aneurysm Sinus of Valsalva, repair
- Aorta-LV tunnel repair
- Mitral Valvuloplasty
- Mitral Valvuloplasty converted to valve replacement in the same operation
- Mitral stenosis, Supravalvar mitral ring repair
- Mitral (MVR Valve replacement,)
- Mitral Valve surgery, Other,
- Norwood procedure
- HLHS biventricular repair
- Norwood Hybrid 1st Stage, RPA & LPA bands
- Norwood Hybrid 1st Stage, PDA Stent placement in arterial duct
- Norwood Hybrid 1st Stage, Bilateral PAB band and PDA Stent placement
- Norwood Hybrid 2nd Stage, Ao/P amalgamation + Cavopulmonary anastomosis(es) + PA Debanding + AA repair
- Norwood Hybrid 2nd Stage, Aortopulmonary amalgamation + Superior Cavopulmonary anastomosis(es) + PA Debanding + W
- Transplant, Heart
- Transplant, Heart and lung
- Partial left ventriculectomy (LV volume reduction surgery) (Batista)
- Pericardial drainage procedure

- Pericardiectomy
- Pericardial procedure, Other
- Fontan, Atrio-pulmonary connection
- Fontan, Atrio-ventricular connection
- Fontan, TCPC, Lateral tunnel, Fenestrated
- Fontan, TCPC, Lateral tunnel, Nonfenestrated
- Fontan, TCPC, External conduit, Fenestrated
- Fontan, TCPC, External conduit, Nonfenestrated
- Fontan revision or conversion (Re-do Fontan)
- Fontan, Other
- Fontan + Atrioventricular valvuloplasty
- Ventricular septation
- Congenitally corrected TGA repair, Atrial switch and ASO (double switch)
- Congenitally corrected TGA repair, Atrial switch and Rastelli
- Congenitally corrected TGA repair, VSD closure
- Congenitally corrected TGA repair, VSD closure and LV to PA conduit
- Congenitally corrected TGA repair, Other
- TGA Arterial switch operation (ASO)
- TGA Arterial switch operation (ASO) and VSD repair
- TGA Arterial switch procedure + Aortic arch repair
- TGA Arterial switch procedure and VSD repair + Aortic arch repair
- TGA Senning
- TGA Mustard
- TGA Atrial baffle procedure, Mustard or Senning revision
- TGA Rastelli
- REV
- Aortic root translocation over left ventricle (Including Nikaidoh procedure)
- TGA, Other procedures (Kawashima, LV-PA conduit, other)
- DORV, Intraventricular tunnel repair
- DOLV repair
- Coarctation repair, End to end
- Coarctation repair, End to end, Extended
- Coarctation repair, Subclavian flap
- Coarctation repair, Patch aortoplasty
- Coarctation repair, Interposition graft
- Coarctation repair, Other
- Coarctation repair + VSD repair
- Aortic arch repair
- Aortic arch repair + VSD repair
- Coronary artery fistula ligation
- Coronary artery Anomalous origin of coronary artery from pulmonary artery repair
- Coronary artery bypass
- Coronary artery Anomalous aortic origin of coronary artery from aorta (AAOCA) repair
- Coronary artery procedure, Other

- Interrupted aortic arch repair
- PDA closure, Surgical
- PDA closure, Device
- Vascular ring repair
- Aortopexy
- Pulmonary artery sling repair
- Aneurysm Aortic aneurysm repair
- Aneurysm Aortic dissection repair
- Lung biopsy
- Transplant, lung(s)
- Lung procedure, Other
- Pectus repair
- Tracheal procedure
- Pacemaker implantation, Permanent
- Pacemaker procedure
- Pacemaker explantation
- Pacemaker ICD (AICD) implantation
- Pacemaker ICD (AICD) ([automatic] implantable cardioverter defibrillator) procedure
- Arrhythmia surgery - atrial, Surgical Ablation
- Arrhythmia surgery - ventricular, Surgical Ablation
- Cardiovascular catheterization procedure, Diagnostic
- Cardiovascular catheterization procedure, Diagnostic, Angiographic data obtained
- Cardiovascular catheterization procedure, Diagnostic, Electrophysiology alteration
- Cardiovascular catheterization procedure, Diagnostic, Hemodynamic alteration
- Cardiovascular catheterization procedure, Diagnostic, Hemodynamic data obtained
- Cardiovascular catheterization procedure, Diagnostic, Transluminal test occlusion
- Cardiovascular catheterization procedure, Therapeutic
- Cardiovascular catheterization procedure, Therapeutic, Adjunctive therapy
- Cardiovascular catheterization procedure, Therapeutic, Balloon dilation
- Cardiovascular catheterization procedure, Therapeutic, Balloon valvotomy
- Cardiovascular catheterization procedure, Therapeutic, Coil implantation
- Cardiovascular catheterization procedure, Therapeutic, Device implantation
- Cardiovascular catheterization procedure, Therapeutic, Perforation (establishing interchamber and/or intervessel communication)
- Cardiovascular catheterization procedure, Therapeutic, Septostomy
- Cardiovascular catheterization procedure, Therapeutic, Stent insertion
- Cardiovascular catheterization procedure, Therapeutic, Stent re-dilation
- Cardiovascular catheterization procedure, Therapeutic, Transcatheter Fontan completion
- Cardiovascular catheterization procedure, Therapeutic, Transcatheter implantation of valve
- Cardiovascular electrophysiological catheterization procedure
- Cardiovascular electrophysiological catheterization procedure, Therapeutic ablation
- Shunt, Systemic to pulmonary, Modified Blalock-Taussig Shunt (MBTS)
- Shunt, Systemic to pulmonary, Central (from aorta or to main pulmonary artery)
- Shunt, Systemic to pulmonary, Other
- Shunt, Ligation and takedown

- Shunt, Reoperation
- PA banding (PAB)
- PA debanding

If other, specify: _____

Was there a 2nd bypass run to repair residual lesions? No
 Yes
 Not in Report
 Not Applicable

- | | | |
|-------------------|-----|--|
| Indication | MI | <input type="checkbox"/> No
<input type="checkbox"/> Yes
<input type="checkbox"/> Not in Report
<input type="checkbox"/> Not Applicable |
| | MS | <input type="checkbox"/> No
<input type="checkbox"/> Yes
<input type="checkbox"/> Not in Report
<input type="checkbox"/> Not Applicable |
| | TI | <input type="checkbox"/> No
<input type="checkbox"/> Yes
<input type="checkbox"/> Not in Report
<input type="checkbox"/> Not Applicable |
| | TS | <input type="checkbox"/> No
<input type="checkbox"/> Yes
<input type="checkbox"/> Not in Report
<input type="checkbox"/> Not Applicable |
| | VSD | <input type="checkbox"/> No
<input type="checkbox"/> Yes
<input type="checkbox"/> Not in Report
<input type="checkbox"/> Not Applicable |
| | ASD | <input type="checkbox"/> No
<input type="checkbox"/> Yes
<input type="checkbox"/> Not in Report
<input type="checkbox"/> Not Applicable |

Right AV Valve:

- | | | | | |
|---------------|-----------------------------|------------------------------|--|---|
| Valvuloplasty | <input type="checkbox"/> No | <input type="checkbox"/> Yes | <input type="checkbox"/> Not in Report | <input type="checkbox"/> Not Applicable |
| Annuloplasty | <input type="checkbox"/> No | <input type="checkbox"/> Yes | <input type="checkbox"/> Not in Report | <input type="checkbox"/> Not Applicable |

Valve Replacement	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> Not in Report	<input type="checkbox"/> Not Applicable
Additional Cleft Closure	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> Not in Report	<input type="checkbox"/> Not Applicable
Removal of Cleft Sutures	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> Not in Report	<input type="checkbox"/> Not Applicable

Left AV Valve:

Valvuloplasty	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> Not in Report	<input type="checkbox"/> Not Applicable
Annuloplasty	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> Not in Report	<input type="checkbox"/> Not Applicable
Valve Replacement	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> Not in Report	<input type="checkbox"/> Not Applicable
Additional Cleft Closure	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> Not in Report	<input type="checkbox"/> Not Applicable
Removal of Cleft Sutures	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> Not in Report	<input type="checkbox"/> Not Applicable

LVOT Procedure	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> Not in Report	<input type="checkbox"/> Not Applicable
Fenestration Atrial	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> Not in Report	<input type="checkbox"/> Not Applicable
Fenestration VSD	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> Not in Report	<input type="checkbox"/> Not Applicable

Concomitant Procedure 2:

- Damus-Kaye-Stansel procedure (DKS) (creation of AP anastomosis without arch reconstruction)
- Cavopulmonary anastomosis Bidirectional (BDCPA) (bidirectional Glenn)
- Cavopulmonary Glenn (unidirectional cavopulmonary anastomosis) (unidirectional Glenn)
- Cavopulmonary Bilateral bidirectional cavopulmonary anastomosis (BBDCPA) (bilateral bidirectional Glenn)
- HemiFontan
- Cavopulmonary anastomosis(es) (Glenn or HemiFontan) + Atrioventricular valvuloplasty
- Cavopulmonary anastomosis(es) + PA reconstruction (Superior)
- Palliation, Other (if other explain)
- ECMO cannulation
- ECMO decannulation
- ECMO procedure
- Intraaortic balloon pump (IABP) insertion
- Right/left heart assist device procedure
- VAD explantation
- VAD implantation
- Echocardiography procedure, Sedated transesophageal echocardiogram
- Echocardiography procedure, Sedated transthoracic echocardiogram
- Non-cardiovascular, Non-thoracic procedure on cardiac patient with cardiac anesthesia
- Radiology procedure on cardiac patient, Cardiac Computerized Axial Tomography (CT Scan)
- Radiology procedure on cardiac patient, Cardiac Magnetic Resonance Imaging (MRI)
- Radiology procedure on cardiac patient, Diagnostic radiology
- Radiology procedure on cardiac patient, Non-Cardiac Computerized Tomography (CT) on cardiac patient
- Radiology procedure on cardiac patient, Non-cardiac Magnetic Resonance Imaging (MRI) on cardiac patient
- Radiology procedure on cardiac patient, Therapeutic radiology
- Aneurysm, Ventricular, Right, Repair
- Aneurysm, Ventricular, Left, Repair
- Aneurysm, Pulmonary artery, Repair

- Cardiac tumor resection
- Pulmonary AV fistula repair/occlusion
- Pulmonary artery Ligation
- Pulmonary embolectomy, Acute pulmonary embolus
- Pulmonary embolectomy, Chronic pulmonary embolus
- Pleural drainage procedure
- Pleural procedure, Other
- Thoracic duct Ligation
- Decortication
- Esophageal procedure
- Mediastinal procedure
- Bronchoscopy
- Diaphragm plaction
- Diaphragm procedure, Other
- VATS (video-assisted thoracoscopic surgery)
- Minimally invasive procedure
- Bypass for noncardiac lesion
- Delayed sternal closure
- Mediastinal exploration
- Sternotomy wound drainage
- Thoracotomy, Other
- Cardiotomy, Other
- Cardiac procedure, Other
- Thoracic and/or mediastinal procedure, Other
- Peripheral vascular procedure, Other
- Miscellaneous procedure, Other
- Organ procurement
- Other procedure (if other explain)
- ASD PFO, Primary closure
- ASD repair, Primary closure
- ASD repair, Patch
- ASD repair, Device
- ASD repair, Patch + PAPVC repair
- ASD, Common atrium (single atrium), Septation
- ASD creation/enlargement
- ASD partial closure
- Atrial septal fenestration
- Atrial fenestration closure
- VSD repair, Primary closure
- VSD repair, Patch
- VSD repair, Device
- VSD, Multiple, Repair
- VSD creation/enlargement
- Ventricular septal fenestration

- AVC (AVSD) repair, Complete (CAVSD)
- AVC (AVSD) repair, Intermediate (Transitional)
- AVC (AVSD) repair, Partial (Incomplete) (PAVSD)
- Common atrioventricular valve Valvuloplasty,
- Common atrioventricular valve Valvuloplasty converted to valve replacement in the same operation,
- Valve replacement, Common atrioventricular valve
- AP window repair
- Pulmonary artery origin from ascending aorta (hemitruncus) repair
- Truncus arteriosus repair
- Truncal Valvuloplasty
- Truncal valve Valvuloplasty converted to valve replacement in the same operation
- Truncal Valve replacement
- Truncus + Interrupted aortic arch repair (IAA) repair
- PAPVC repair
- PAPVC, Scimitar, Repair
- PAPVC repair, Baffle redirection to left atrium with systemic vein translocation (Warden) (SVC sewn to right atrial appendage)
- TAPVC repair
- TAPVC repair + Shunt - systemic-to-pulmonary
- Cor triatriatum repair
- Pulmonary venous stenosis repair
- TGA Atrial baffle procedure (non-Mustard, non-Senning)
- Vein Anomalous systemic venous connection repair
- Vein Systemic venous stenosis repair
- TOF repair, No ventriculotomy
- TOF repair, Ventriculotomy, Nontransannular patch
- TOF repair, Ventriculotomy, Transannular patch
- TOF repair, RV-PA conduit
- TOF - AVC (AVSD) repair
- TOF - Absent pulmonary valve repair
- Pulmonary atresia - VSD (including TOF, PA) repair
- Pulmonary atresia - VSD - MAPCA (pseudotruncus) repair
- MAPCA(s) Unifocalization
- MAPCA(s) Occlusion
- Tricuspid Valvuloplasty
- Tricuspid Valvuloplasty converted to valve replacement in the same operation
- Tricuspid Ebstein's repair
- Tricuspid (TVR) Valve replacement
- Tricuspid Valve closure (exclusion, univentricular approach)
- Tricuspid Valve excision (without replacement)
- Tricuspid Valve surgery Other explain
- RVOT procedure
- 1 1/2 ventricular repair
- PA, reconstruction (plasty), Main (trunk)
- PA, reconstruction (plasty), Branch, Central (within the hilar bifurcation)

- PA, reconstruction (plasty), Branch, Peripheral (at or beyond the hilar bifurcation)
- DCRV repair
- Pulmonic Valvuloplasty
- Pulmonic Valvuloplasty converted to valve replacement in the same operation
- Pulmonic (PVR) Valve replacement,
- Pulmonary Valve excision, (without replacement)
- Valve closure, Semilunar
- Pulmonic Valve surgery, Other
- Conduit placement, RV to PA
- Conduit placement, LV to PA
- Conduit placement, Ventricle to aorta
- Conduit placement, Other
- Conduit reoperation
- Aortic Valvuloplasty,
- Aortic Valvuloplasty converted to valve replacement in the same operation,
- Aortic – with Ross procedure Valvuloplasty converted to valve replacement in the same operation,
- Aortic – with Ross-Konno procedure Valvuloplasty converted to valve replacement in the same operation,
- Aortic (AVR) Valve replacement,
- Aortic (AVR) Valve replacement Mechanical
- Aortic (AVR) Valve replacement Bioprosthetic
- Aortic (AVR) Valve replacement, Homograft
- Aortic root replacement, Bioprosthetic
- Aortic root replacement, Mechanical
- Aortic root replacement, Homograft
- Aortic root replacement, Valve sparing
- Aortic Ross procedure
- Aortic Konno procedure
- Aortic Ross-Konno procedure
- Aortic Other annular enlargement procedure
- Aortic stenosis, Subvalvar, Repair
- SubAortic stenosis, myectomy for HOCM
- Aortic stenosis, Supravalvar, Repair
- Aortic Other Valve surgery,
- Aneurysm Sinus of Valsalva, repair
- Aorta-LV tunnel repair
- Mitral Valvuloplasty
- Mitral Valvuloplasty converted to valve replacement in the same operation
- Mitral stenosis, Supravalvar mitral ring repair
- Mitral (MVR Valve replacement,)
- Mitral Valve surgery, Other,
- Norwood procedure
- HLHS biventricular repair
- Norwood Hybrid 1st Stage, RPA & LPA bands
- Norwood Hybrid 1st Stage, PDA Stent placement in arterial duct

- Norwood Hybrid 1st Stage, Bilateral PAB band and PDA Stent placement
- Norwood Hybrid 2nd Stage, Ao/P amalgamation + Cavopulmonary anastomosis(es) + PA Debanding + AA repair
- Norwood Hybrid 2nd Stage, Aortopulmonary amalgamation + Superior Cavopulmonary anastomosis(es) + PA Debanding + W
- Transplant, Heart
- Transplant, Heart and lung
- Partial left ventriculectomy (LV volume reduction surgery) (Batista)
- Pericardial drainage procedure
- Pericardiectomy
- Pericardial procedure, Other
- Fontan, Atrio-pulmonary connection
- Fontan, Atrio-ventricular connection
- Fontan, TCPC, Lateral tunnel, Fenestrated
- Fontan, TCPC, Lateral tunnel, Nonfenestrated
- Fontan, TCPC, External conduit, Fenestrated
- Fontan, TCPC, External conduit, Nonfenestrated
- Fontan revision or conversion (Re-do Fontan)
- Fontan, Other
- Fontan + Atrioventricular valvuloplasty
- Ventricular septation
- Congenitally corrected TGA repair, Atrial switch and ASO (double switch)
- Congenitally corrected TGA repair, Atrial switch and Rastelli
- Congenitally corrected TGA repair, VSD closure
- Congenitally corrected TGA repair, VSD closure and LV to PA conduit
- Congenitally corrected TGA repair, Other
- TGA Arterial switch operation (ASO)
- TGA Arterial switch operation (ASO) and VSD repair
- TGA Arterial switch procedure + Aortic arch repair
- TGA Arterial switch procedure and VSD repair + Aortic arch repair
- TGA Senning
- TGA Mustard
- TGA Atrial baffle procedure, Mustard or Senning revision
- TGA Rastelli
- REV
- Aortic root translocation over left ventricle (Including Nikaidoh procedure)
- TGA, Other procedures (Kawashima, LV-PA conduit, other)
- DORV, Intraventricular tunnel repair
- DOLV repair
- Coarctation repair, End to end
- Coarctation repair, End to end, Extended
- Coarctation repair, Subclavian flap
- Coarctation repair, Patch aortoplasty
- Coarctation repair, Interposition graft
- Coarctation repair, Other
- Coarctation repair + VSD repair

- Aortic arch repair
- Aortic arch repair + VSD repair
- Coronary artery fistula ligation
- Coronary artery Anomalous origin of coronary artery from pulmonary artery repair
- Coronary artery bypass
- Coronary artery Anomalous aortic origin of coronary artery from aorta (AAOCA) repair
- Coronary artery procedure, Other
- Interrupted aortic arch repair
- PDA closure, Surgical
- PDA closure, Device
- Vascular ring repair
- Aortopexy
- Pulmonary artery sling repair
- Aneurysm Aortic aneurysm repair
- Aneurysm Aortic dissection repair
- Lung biopsy
- Transplant, lung(s)
- Lung procedure, Other
- Pectus repair
- Tracheal procedure
- Pacemaker implantation, Permanent
- Pacemaker procedure
- Pacemaker explantation
- Pacemaker ICD (AICD) implantation
- Pacemaker ICD (AICD) ([automatic] implantable cardioverter defibrillator) procedure
- Arrhythmia surgery - atrial, Surgical Ablation
- Arrhythmia surgery - ventricular, Surgical Ablation
- Cardiovascular catheterization procedure, Diagnostic
- Cardiovascular catheterization procedure, Diagnostic, Angiographic data obtained
- Cardiovascular catheterization procedure, Diagnostic, Electrophysiology alteration
- Cardiovascular catheterization procedure, Diagnostic, Hemodynamic alteration
- Cardiovascular catheterization procedure, Diagnostic, Hemodynamic data obtained
- Cardiovascular catheterization procedure, Diagnostic, Transluminal test occlusion
- Cardiovascular catheterization procedure, Therapeutic
- Cardiovascular catheterization procedure, Therapeutic, Adjunctive therapy
- Cardiovascular catheterization procedure, Therapeutic, Balloon dilation
- Cardiovascular catheterization procedure, Therapeutic, Balloon valvotomy
- Cardiovascular catheterization procedure, Therapeutic, Coil implantation
- Cardiovascular catheterization procedure, Therapeutic, Device implantation
- Cardiovascular catheterization procedure, Therapeutic, Perforation (establishing interchamber and/or intervessel communication)
- Cardiovascular catheterization procedure, Therapeutic, Septostomy
- Cardiovascular catheterization procedure, Therapeutic, Stent insertion
- Cardiovascular catheterization procedure, Therapeutic, Stent re-dilation
- Cardiovascular catheterization procedure, Therapeutic, Transcatheter Fontan completion

- Cardiovascular catheterization procedure, Therapeutic, Transcatheter implantation of valve
- Cardiovascular electrophysiological catheterization procedure
- Cardiovascular electrophysiological catheterization procedure, Therapeutic ablation
- Shunt, Systemic to pulmonary, Modified Blalock-Taussig Shunt (MBTS)
- Shunt, Systemic to pulmonary, Central (from aorta or to main pulmonary artery)
- Shunt, Systemic to pulmonary, Other
- Shunt, Ligation and takedown
- Shunt, Reoperation
- PA banding (PAB)
- PA debanding

If other, specify: _____

Concomitant Procedure 2:

- Damus-Kaye-Stansel procedure (DKS) (creation of AP anastomosis without arch reconstruction)
- Cavopulmonary anastomosis Bidirectional (BDCPA) (bidirectional Glenn)
- Cavopulmonary Glenn (unidirectional cavopulmonary anastomosis) (unidirectional Glenn)
- Cavopulmonary Bilateral bidirectional cavopulmonary anastomosis (BBDCPA) (bilateral bidirectional Glenn)
- HemiFontan
- Cavopulmonary anastomosis(es) (Glenn or HemiFontan) + Atrioventricular valvuloplasty
- Cavopulmonary anastomosis(es) + PA reconstruction (Superior)
- Palliation, Other (if other explain)
- ECMO cannulation
- ECMO decannulation
- ECMO procedure
- Intraaortic balloon pump (IABP) insertion
- Right/left heart assist device procedure
- VAD explantation
- VAD implantation
- Echocardiography procedure, Sedated transesophageal echocardiogram
- Echocardiography procedure, Sedated transthoracic echocardiogram
- Non-cardiovascular, Non-thoracic procedure on cardiac patient with cardiac anesthesia
- Radiology procedure on cardiac patient, Cardiac Computerized Axial Tomography (CT Scan)
- Radiology procedure on cardiac patient, Cardiac Magnetic Resonance Imaging (MRI)
- Radiology procedure on cardiac patient, Diagnostic radiology
- Radiology procedure on cardiac patient, Non-Cardiac Computerized Tomography (CT) on cardiac patient
- Radiology procedure on cardiac patient, Non-cardiac Magnetic Resonance Imaging (MRI) on cardiac patient
- Radiology procedure on cardiac patient, Therapeutic radiology
- Aneurysm, Ventricular, Right, Repair
- Aneurysm, Ventricular, Left, Repair
- Aneurysm, Pulmonary artery, Repair
- Cardiac tumor resection
- Pulmonary AV fistula repair/occlusion
- Pulmonary artery Ligation

- Pulmonary embolectomy, Acute pulmonary embolus
- Pulmonary embolectomy, Chronic pulmonary embolus
- Pleural drainage procedure
- Pleural procedure, Other
- Thoracic ductLigation
- Decortication
- Esophageal procedure
- Mediastinal procedure
- Bronchoscopy
- Diaphragm placation
- Diaphragm procedure, Other
- VATS (video-assisted thoracoscopic surgery)
- Minimally invasive procedure
- Bypass for noncardiac lesion
- Delayed sternal closure
- Mediastinal exploration
- Sternotomy wound drainage
- Thoracotomy, Other
- Cardiotomy, Other
- Cardiac procedure, Other
- Thoracic and/or mediastinal procedure, Other
- Peripheral vascular procedure, Other
- Miscellaneous procedure, Other
- Organ procurement
- Other procedure (if other explain)
- ASD PFO, Primary closure
- ASD repair, Primary closure
- ASD repair, Patch
- ASD repair, Device
- ASD repair, Patch + PAPVC repair
- ASD, Common atrium (single atrium), Septation
- ASD creation/enlargement
- ASD partial closure
- Atrial septal fenestration
- Atrial fenestration closure
- VSD repair, Primary closure
- VSD repair, Patch
- VSD repair, Device
- VSD, Multiple, Repair
- VSD creation/enlargement
- Ventricular septal fenestration
- AVC (AVSD) repair, Complete (CAVSD)
- AVC (AVSD) repair, Intermediate (Transitional)
- AVC (AVSD) repair, Partial (Incomplete) (PAVSD)

- Common atrioventricular valve Valvuloplasty,
- Common atrioventricular valve Valvuloplasty converted to valve replacement in the same operation,
- Valve replacement, Common atrioventricular valve
- AP window repair
- Pulmonary artery origin from ascending aorta (hemitruncus) repair
- Truncus arteriosus repair
- Truncal Valvuloplasty
- Truncal valve Valvuloplasty converted to valve replacement in the same operation
- Truncal Valve replacement
- Truncus + Interrupted aortic arch repair (IAA) repair
- PAPVC repair
- PAPVC, Scimitar, Repair
- PAPVC repair, Baffle redirection to left atrium with systemic vein translocation (Warden) (SVC sewn to right atrial appendage)
- TAPVC repair
- TAPVC repair + Shunt - systemic-to-pulmonary
- Cor triatriatum repair
- Pulmonary venous stenosis repair
- TGA Atrial baffle procedure (non-Mustard, non-Senning)
- Vein Anomalous systemic venous connection repair
- Vein Systemic venous stenosis repair
- TOF repair, No ventriculotomy
- TOF repair, Ventriculotomy, Nontransannular patch
- TOF repair, Ventriculotomy, Transannular patch
- TOF repair, RV-PA conduit
- TOF - AVC (AVSD) repair
- TOF - Absent pulmonary valve repair
- Pulmonary atresia - VSD (including TOF, PA) repair
- Pulmonary atresia - VSD - MAPCA (pseudotruncus) repair
- MAPCA(s) Unifocalization
- MAPCA(s) Occlusion
- Tricuspid Valvuloplasty
- Tricuspid Valvuloplasty converted to valve replacement in the same operation
- Tricuspid Ebstein's repair
- Tricuspid (TVR) Valve replacement
- Tricuspid Valve closure (exclusion, univentricular approach)
- Tricuspid Valve excision (without replacement)
- Tricuspid Valve surgery Other explain
- RVOT procedure
- 1 1/2 ventricular repair
- PA, reconstruction (plasty), Main (trunk)
- PA, reconstruction (plasty), Branch, Central (within the hilar bifurcation)
- PA, reconstruction (plasty), Branch, Peripheral (at or beyond the hilar bifurcation)
- DCRV repair
- Pulmonic Valvuloplasty

- Pulmonic Valvuloplasty converted to valve replacement in the same operation
- Pulmonic (PVR) Valve replacement,
- Pulmonary Valve excision, (without replacement)
- Valve closure, Semilunar
- Pulmonic Valve surgery, Other
- Conduit placement, RV to PA
- Conduit placement, LV to PA
- Conduit placement, Ventricle to aorta
- Conduit placement, Other
- Conduit reoperation
- Aortic Valvuloplasty,
- Aortic Valvuloplasty converted to valve replacement in the same operation,
- Aortic – with Ross procedure Valvuloplasty converted to valve replacement in the same operation,
- Aortic – with Ross-Konno procedure Valvuloplasty converted to valve replacement in the same operation,
- Aortic (AVR) Valve replacement,
- Aortic (AVR) Valve replacement Mechanical
- Aortic (AVR) Valve replacement Bioprosthetic
- Aortic (AVR) Valve replacement, Homograft
- Aortic root replacement, Bioprosthetic
- Aortic root replacement, Mechanical
- Aortic root replacement, Homograft
- Aortic root replacement, Valve sparing
- Aortic Ross procedure
- Aortic Konno procedure
- Aortic Ross-Konno procedure
- Aortic Other annular enlargement procedure
- Aortic stenosis, Subvalvar, Repair
- SubAortic stenosis, myectomy for HOCM
- Aortic stenosis, Supravalvar, Repair
- Aortic Other Valve surgery,
- Aneurysm Sinus of Valsalva, repair
- Aorta-LV tunnel repair
- Mitral Valvuloplasty
- Mitral Valvuloplasty converted to valve replacement in the same operation
- Mitral stenosis, Supravalvar mitral ring repair
- Mitral (MVR Valve replacement,)
- Mitral Valve surgery, Other,
- Norwood procedure
- HLHS biventricular repair
- Norwood Hybrid 1st Stage, RPA & LPA bands
- Norwood Hybrid 1st Stage, PDA Stent placement in arterial duct
- Norwood Hybrid 1st Stage, Bilateral PAB band and PDA Stent placement
- Norwood Hybrid 2nd Stage, Ao/P amalgamation + Cavopulmonary anastomosis(es) + PA Debanding + AA repair
- Norwood Hybrid 2nd Stage, Aortopulmonary amalgamation + Superior Cavopulmonary anastomosis(es) + PA Debanding + Wit

- Transplant, Heart
- Transplant, Heart and lung
- Partial left ventriculectomy (LV volume reduction surgery) (Batista)
- Pericardial drainage procedure
- Pericardiectomy
- Pericardial procedure, Other
- Fontan, Atrio-pulmonary connection
- Fontan, Atrio-ventricular connection
- Fontan, TCPC, Lateral tunnel, Fenestrated
- Fontan, TCPC, Lateral tunnel, Nonfenestrated
- Fontan, TCPC, External conduit, Fenestrated
- Fontan, TCPC, External conduit, Nonfenestrated
- Fontan revision or conversion (Re-do Fontan)
- Fontan, Other
- Fontan + Atrioventricular valvuloplasty
- Ventricular septation
- Congenitally corrected TGA repair, Atrial switch and ASO (double switch)
- Congenitally corrected TGA repair, Atrial switch and Rastelli
- Congenitally corrected TGA repair, VSD closure
- Congenitally corrected TGA repair, VSD closure and LV to PA conduit
- Congenitally corrected TGA repair, Other
- TGA Arterial switch operation (ASO)
- TGA Arterial switch operation (ASO) and VSD repair
- TGA Arterial switch procedure + Aortic arch repair
- TGA Arterial switch procedure and VSD repair + Aortic arch repair
- TGA Senning
- TGA Mustard
- TGA Atrial baffle procedure, Mustard or Senning revision
- TGA Rastelli
- REV
- Aortic root translocation over left ventricle (Including Nikaidoh procedure)
- TGA, Other procedures (Kawashima, LV-PA conduit, other)
- DORV, Intraventricular tunnel repair
- DOLV repair
- Coarctation repair, End to end
- Coarctation repair, End to end, Extended
- Coarctation repair, Subclavian flap
- Coarctation repair, Patch aortoplasty
- Coarctation repair, Interposition graft
- Coarctation repair, Other
- Coarctation repair + VSD repair
- Aortic arch repair
- Aortic arch repair + VSD repair
- Coronary artery fistula ligation

- Coronary artery Anomalous origin of coronary artery from pulmonary artery repair
- Coronary artery bypass
- Coronary artery Anomalous aortic origin of coronary artery from aorta (AAOCA) repair
- Coronary artery procedure, Other
- Interrupted aortic arch repair
- PDA closure, Surgical
- PDA closure, Device
- Vascular ring repair
- Aortopexy
- Pulmonary artery sling repair
- Aneurysm Aortic aneurysm repair
- Aneurysm Aortic dissection repair
- Lung biopsy
- Transplant, lung(s)
- Lung procedure, Other
- Pectus repair
- Tracheal procedure
- Pacemaker implantation, Permanent
- Pacemaker procedure
- Pacemaker explantation
- Pacemaker ICD (AICD) implantation
- Pacemaker ICD (AICD) ([automatic] implantable cardioverter defibrillator) procedure
- Arrhythmia surgery - atrial, Surgical Ablation
- Arrhythmia surgery - ventricular, Surgical Ablation
- Cardiovascular catheterization procedure, Diagnostic
- Cardiovascular catheterization procedure, Diagnostic, Angiographic data obtained
- Cardiovascular catheterization procedure, Diagnostic, Electrophysiology alteration
- Cardiovascular catheterization procedure, Diagnostic, Hemodynamic alteration
- Cardiovascular catheterization procedure, Diagnostic, Hemodynamic data obtained
- Cardiovascular catheterization procedure, Diagnostic, Transluminal test occlusion
- Cardiovascular catheterization procedure, Therapeutic
- Cardiovascular catheterization procedure, Therapeutic, Adjunctive therapy
- Cardiovascular catheterization procedure, Therapeutic, Balloon dilation
- Cardiovascular catheterization procedure, Therapeutic, Balloon valvotomy
- Cardiovascular catheterization procedure, Therapeutic, Coil implantation
- Cardiovascular catheterization procedure, Therapeutic, Device implantation
- Cardiovascular catheterization procedure, Therapeutic, Perforation (establishing interchamber and/or intervessel communication)
- Cardiovascular catheterization procedure, Therapeutic, Septostomy
- Cardiovascular catheterization procedure, Therapeutic, Stent insertion
- Cardiovascular catheterization procedure, Therapeutic, Stent re-dilation
- Cardiovascular catheterization procedure, Therapeutic, Transcatheter Fontan completion
- Cardiovascular catheterization procedure, Therapeutic, Transcatheter implantation of valve
- Cardiovascular electrophysiological catheterization procedure
- Cardiovascular electrophysiological catheterization procedure, Therapeutic ablation

- Shunt, Systemic to pulmonary, Modified Blalock-Taussig Shunt (MBTS)
- Shunt, Systemic to pulmonary, Central (from aorta or to main pulmonary artery)
- Shunt, Systemic to pulmonary, Other
- Shunt, Ligation and takedown
- Shunt, Reoperation
- PA banding (PAB)
- PA debanding

If other, specify: _____

- Was there a 3rd bypass run to repair residual lesions?
- No
 - Yes
 - Not in Report
 - Not Applicable

- | | | |
|-------------------|---|---|
| Indication | MI | <input type="checkbox"/> No |
| | | <input type="checkbox"/> Yes |
| | | <input type="checkbox"/> Not in Report |
| | | <input type="checkbox"/> Not Applicable |
| | MS | <input type="checkbox"/> No |
| | | <input type="checkbox"/> Yes |
| | <input type="checkbox"/> Not in Report | |
| | <input type="checkbox"/> Not Applicable | |
| | TI | <input type="checkbox"/> No |
| | | <input type="checkbox"/> Yes |
| | | <input type="checkbox"/> Not in Report |
| | | <input type="checkbox"/> Not Applicable |
| | TS | <input type="checkbox"/> No |
| | | <input type="checkbox"/> Yes |
| | | <input type="checkbox"/> Not in Report |
| | | <input type="checkbox"/> Not Applicable |
| | VSD | <input type="checkbox"/> No |
| | | <input type="checkbox"/> Yes |
| | | <input type="checkbox"/> Not in Report |
| | | <input type="checkbox"/> Not Applicable |
| | ASD | <input type="checkbox"/> No |
| | | <input type="checkbox"/> Yes |
| | | <input type="checkbox"/> Not in Report |
| | | <input type="checkbox"/> Not Applicable |

Right AV Valve:

Valvuloplasty	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> Not in Report	<input type="checkbox"/> Not Applicable
Annuloplasty	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> Not in Report	<input type="checkbox"/> Not Applicable
Valve Replacement	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> Not in Report	<input type="checkbox"/> Not Applicable
Additional Cleft Closure	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> Not in Report	<input type="checkbox"/> Not Applicable
Removal of Cleft Sutures	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> Not in Report	<input type="checkbox"/> Not Applicable

Left AV Valve:

Valvuloplasty	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> Not in Report	<input type="checkbox"/> Not Applicable
Annuloplasty	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> Not in Report	<input type="checkbox"/> Not Applicable
Valve Replacement	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> Not in Report	<input type="checkbox"/> Not Applicable
Additional Cleft Closure	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> Not in Report	<input type="checkbox"/> Not Applicable
Removal of Cleft Sutures	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> Not in Report	<input type="checkbox"/> Not Applicable

LVOT Procedure	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> Not in Report	<input type="checkbox"/> Not Applicable
Fenestration Atrial	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> Not in Report	<input type="checkbox"/> Not Applicable
Fenestration VSD	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> Not in Report	<input type="checkbox"/> Not Applicable

Concomitant Procedure 3:

- Damus-Kaye-Stansel procedure (DKS) (creation of AP anastomosis without arch reconstruction)
- Cavopulmonary anastomosis Bidirectional (BDCPA) (bidirectional Glenn)
- Cavopulmonary Glenn (unidirectional cavopulmonary anastomosis) (unidirectional Glenn)
- Cavopulmonary Bilateral bidirectional cavopulmonary anastomosis (BBDCPA) (bilateral bidirectional Glenn)
- HemiFontan
- Cavopulmonary anastomosis(es) (Glenn or HemiFontan) + Atrioventricular valvuloplasty
- Cavopulmonary anastomosis(es) + PA reconstruction (Superior)
- Palliation, Other (if other explain)
- ECMO cannulation
- ECMO decannulation
- ECMO procedure
- Intraaortic balloon pump (IABP) insertion
- Right/left heart assist device procedure
- VAD explantation
- VAD implantation
- Echocardiography procedure, Sedated transesophageal echocardiogram
- Echocardiography procedure, Sedated transthoracic echocardiogram
- Non-cardiovascular, Non-thoracic procedure on cardiac patient with cardiac anesthesia
- Radiology procedure on cardiac patient, Cardiac Computerized Axial Tomography (CT Scan)
- Radiology procedure on cardiac patient, Cardiac Magnetic Resonance Imaging (MRI)
- Radiology procedure on cardiac patient, Diagnostic radiology
- Radiology procedure on cardiac patient, Non-Cardiac Computerized Tomography (CT) on cardiac patient
- Radiology procedure on cardiac patient, Non-cardiac Magnetic Resonance Imaging (MRI) on cardiac patient

- Radiology procedure on cardiac patient, Therapeutic radiology
- Aneurysm, Ventricular, Right, Repair
- Aneurysm, Ventricular, Left, Repair
- Aneurysm, Pulmonary artery, Repair
- Cardiac tumor resection
- Pulmonary AV fistula repair/occlusion
- Pulmonary artery Ligation
- Pulmonary embolectomy, Acute pulmonary embolus
- Pulmonary embolectomy, Chronic pulmonary embolus
- Pleural drainage procedure
- Pleural procedure, Other
- Thoracic ductLigation
- Decortication
- Esophageal procedure
- Mediastinal procedure
- Bronchoscopy
- Diaphragm plaction
- Diaphragm procedure, Other
- VATS (video-assisted thoracoscopic surgery)
- Minimally invasive procedure
- Bypass for noncardiac lesion
- Delayed sternal closure
- Mediastinal exploration
- Sternotomy wound drainage
- Thoracotomy, Other
- Cardiotomy, Other
- Cardiac procedure, Other
- Thoracic and/or mediastinal procedure, Other
- Peripheral vascular procedure, Other
- Miscellaneous procedure, Other
- Organ procurement
- Other procedure (if other explain)
- ASD PFO, Primary closure
- ASD repair, Primary closure
- ASD repair, Patch
- ASD repair, Device
- ASD repair, Patch + PAPVC repair
- ASD, Common atrium (single atrium), Septation
- ASD creation/enlargement
- ASD partial closure
- Atrial septal fenestration
- Atrial fenestration closure
- VSD repair, Primary closure
- VSD repair, Patch

- VSD repair, Device
- VSD, Multiple, Repair
- VSD creation/enlargement
- Ventricular septal fenestration
- AVC (AVSD) repair, Complete (CAVSD)
- AVC (AVSD) repair, Intermediate (Transitional)
- AVC (AVSD) repair, Partial (Incomplete) (PAVSD)
- Common atrioventricular valve Valvuloplasty,
- Common atrioventricular valve Valvuloplasty converted to valve replacement in the same operation,
- Valve replacement, Common atrioventricular valve
- AP window repair
- Pulmonary artery origin from ascending aorta (hemitruncus) repair
- Truncus arteriosus repair
- Truncal Valvuloplasty
- Truncal valve Valvuloplasty converted to valve replacement in the same operation
- Truncal Valve replacement
- Truncus + Interrupted aortic arch repair (IAA) repair
- PAPVC repair
- PAPVC, Scimitar, Repair
- PAPVC repair, Baffle redirection to left atrium with systemic vein translocation (Warden) (SVC sewn to right atrial appendage)
- TAPVC repair
- TAPVC repair + Shunt - systemic-to-pulmonary
- Cor triatriatum repair
- Pulmonary venous stenosis repair
- TGA Atrial baffle procedure (non-Mustard, non-Senning)
- Vein Anomalous systemic venous connection repair
- Vein Systemic venous stenosis repair
- TOF repair, No ventriculotomy
- TOF repair, Ventriculotomy, Nontransannular patch
- TOF repair, Ventriculotomy, Transannular patch
- TOF repair, RV-PA conduit
- TOF - AVC (AVSD) repair
- TOF - Absent pulmonary valve repair
- Pulmonary atresia - VSD (including TOF, PA) repair
- Pulmonary atresia - VSD - MAPCA (pseudotruncus) repair
- MAPCA(s) Unifocalization
- MAPCA(s) Occlusion
- Tricuspid Valvuloplasty
- Tricuspid Valvuloplasty converted to valve replacement in the same operation
- Tricuspid Ebstein's repair
- Tricuspid (TVR) Valve replacement
- Tricuspid Valve closure (exclusion, univentricular approach)
- Tricuspid Valve excision (without replacement)
- Tricuspid Valve surgery Other explain

- RVOT procedure
- 1 1/2 ventricular repair
- PA, reconstruction (plasty), Main (trunk)
- PA, reconstruction (plasty), Branch, Central (within the hilar bifurcation)
- PA, reconstruction (plasty), Branch, Peripheral (at or beyond the hilar bifurcation)
- DCRV repair
- Pulmonic Valvuloplasty
- Pulmonic Valvuloplasty converted to valve replacement in the same operation
- Pulmonic (PVR) Valve replacement,
- Pulmonary Valve excision, (without replacement)
- Valve closure, Semilunar
- Pulmonic Valve surgery, Other
- Conduit placement, RV to PA
- Conduit placement, LV to PA
- Conduit placement, Ventricle to aorta
- Conduit placement, Other
- Conduit reoperation
- Aortic Valvuloplasty,
- Aortic Valvuloplasty converted to valve replacement in the same operation,
- Aortic – with Ross procedure Valvuloplasty converted to valve replacement in the same operation,
- Aortic – with Ross-Konno procedure Valvuloplasty converted to valve replacement in the same operation,
- Aortic (AVR) Valve replacement,
- Aortic (AVR) Valve replacement Mechanical
- Aortic (AVR) Valve replacement Bioprosthetic
- Aortic (AVR) Valve replacement, Homograft
- Aortic root replacement, Bioprosthetic
- Aortic root replacement, Mechanical
- Aortic root replacement, Homograft
- Aortic root replacement, Valve sparing
- Aortic Ross procedure
- Aortic Konno procedure
- Aortic Ross-Konno procedure
- Aortic Other annular enlargement procedure
- Aortic stenosis, Subvalvar, Repair
- SubAortic stenosis, myectomy for HOCM
- Aortic stenosis, Supravalvar, Repair
- Aortic Other Valve surgery,
- Aneurysm Sinus of Valsalva, repair
- Aorta-LV tunnel repair
- Mitral Valvuloplasty
- Mitral Valvuloplasty converted to valve replacement in the same operation
- Mitral stenosis, Supravalvar mitral ring repair
- Mitral (MVR Valve replacement,)
- Mitral Valve surgery, Other,

- Norwood procedure
- HLHS biventricular repair
- Norwood Hybrid 1st Stage, RPA & LPA bands
- Norwood Hybrid 1st Stage, PDA Stent placement in arterial duct
- Norwood Hybrid 1st Stage, Bilateral PAB band and PDA Stent placement
- Norwood Hybrid 2nd Stage, Ao/P amalgamation + Cavopulmonary anastomosis(es) + PA Debanding + AA repair
- Norwood Hybrid 2nd Stage, Aortopulmonary amalgamation + Superior Cavopulmonary anastomosis(es) + PA Debanding + W
- Transplant, Heart
- Transplant, Heart and lung
- Partial left ventriculectomy (LV volume reduction surgery) (Batista)
- Pericardial drainage procedure
- Pericardiectomy
- Pericardial procedure, Other
- Fontan, Atrio-pulmonary connection
- Fontan, Atrio-ventricular connection
- Fontan, TCPC, Lateral tunnel, Fenestrated
- Fontan, TCPC, Lateral tunnel, Nonfenestrated
- Fontan, TCPC, External conduit, Fenestrated
- Fontan, TCPC, External conduit, Nonfenestrated
- Fontan revision or conversion (Re-do Fontan)
- Fontan, Other
- Fontan + Atrioventricular valvuloplasty
- Ventricular septation
- Congenitally corrected TGA repair, Atrial switch and ASO (double switch)
- Congenitally corrected TGA repair, Atrial switch and Rastelli
- Congenitally corrected TGA repair, VSD closure
- Congenitally corrected TGA repair, VSD closure and LV to PA conduit
- Congenitally corrected TGA repair, Other
- TGA Arterial switch operation (ASO)
- TGA Arterial switch operation (ASO) and VSD repair
- TGA Arterial switch procedure + Aortic arch repair
- TGA Arterial switch procedure and VSD repair + Aortic arch repair
- TGA Senning
- TGA Mustard
- TGA Atrial baffle procedure, Mustard or Senning revision
- TGA Rastelli
- REV
- Aortic root translocation over left ventricle (Including Nikaidoh procedure)
- TGA, Other procedures (Kawashima, LV-PA conduit, other)
- DORV, Intraventricular tunnel repair
- DOLV repair
- Coarctation repair, End to end
- Coarctation repair, End to end, Extended
- Coarctation repair, Subclavian flap

- Coarctation repair, Patch aortoplasty
- Coarctation repair, Interposition graft
- Coarctation repair, Other
- Coarctation repair + VSD repair
- Aortic arch repair
- Aortic arch repair + VSD repair
- Coronary artery fistula ligation
- Coronary artery Anomalous origin of coronary artery from pulmonary artery repair
- Coronary artery bypass
- Coronary artery Anomalous aortic origin of coronary artery from aorta (AAOCA) repair
- Coronary artery procedure, Other
- Interrupted aortic arch repair
- PDA closure, Surgical
- PDA closure, Device
- Vascular ring repair
- Aortopexy
- Pulmonary artery sling repair
- Aneurysm Aortic aneurysm repair
- Aneurysm Aortic dissection repair
- Lung biopsy
- Transplant, lung(s)
- Lung procedure, Other
- Pectus repair
- Tracheal procedure
- Pacemaker implantation, Permanent
- Pacemaker procedure
- Pacemaker explantation
- Pacemaker ICD (AICD) implantation
- Pacemaker ICD (AICD) ([automatic] implantable cardioverter defibrillator) procedure
- Arrhythmia surgery - atrial, Surgical Ablation
- Arrhythmia surgery - ventricular, Surgical Ablation
- Cardiovascular catheterization procedure, Diagnostic
- Cardiovascular catheterization procedure, Diagnostic, Angiographic data obtained
- Cardiovascular catheterization procedure, Diagnostic, Electrophysiology alteration
- Cardiovascular catheterization procedure, Diagnostic, Hemodynamic alteration
- Cardiovascular catheterization procedure, Diagnostic, Hemodynamic data obtained
- Cardiovascular catheterization procedure, Diagnostic, Transluminal test occlusion
- Cardiovascular catheterization procedure, Therapeutic
- Cardiovascular catheterization procedure, Therapeutic, Adjunctive therapy
- Cardiovascular catheterization procedure, Therapeutic, Balloon dilation
- Cardiovascular catheterization procedure, Therapeutic, Balloon valvotomy
- Cardiovascular catheterization procedure, Therapeutic, Coil implantation
- Cardiovascular catheterization procedure, Therapeutic, Device implantation
- Cardiovascular catheterization procedure, Therapeutic, Perforation (establishing interchamber and/or intervessel communication)

- Cardiovascular catheterization procedure, Therapeutic, Septostomy
- Cardiovascular catheterization procedure, Therapeutic, Stent insertion
- Cardiovascular catheterization procedure, Therapeutic, Stent re-dilation
- Cardiovascular catheterization procedure, Therapeutic, Transcatheter Fontan completion
- Cardiovascular catheterization procedure, Therapeutic, Transcatheter implantation of valve
- Cardiovascular electrophysiological catheterization procedure
- Cardiovascular electrophysiological catheterization procedure, Therapeutic ablation
- Shunt, Systemic to pulmonary, Modified Blalock-Taussig Shunt (MBTS)
- Shunt, Systemic to pulmonary, Central (from aorta or to main pulmonary artery)
- Shunt, Systemic to pulmonary, Other
- Shunt, Ligation and takedown
- Shunt, Reoperation
- PA banding (PAB)
- PA debanding

If other, specify: _____

Comments: