### AVSD Surgical Repair Form

**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**
- ☐Gore-tex  
- ☐Dacron  
- ☐Bovine Pericardium  
- ☐Autologous Pericardium  
- ☐Allograft  
- ☐Other  
- ☐Cormatrix + Autologous Pericardium  
- ☐Pericardium-Type Unspecified

**Single Patch Suture Line**
- ☐Continuous  
- ☐Interrupted

#### Modified Single Patch (Nunn)

ASD patch (as part of the “No patch” Graham Nunn repair)
- ☐Gore-tex  
- ☐Dacron  
- ☐Bovine Pericardium  
- ☐Autologous Pericardium  
- ☐Allograft  
- ☐Other  
- ☐Cormatrix + Autologous Pericardium  
- ☐Pericardium-Type Unspecified

**ASD Patch Suture Line**
- ☐Continuous  
- ☐Interrupted
### Two Patch

**Annular Incision of Bridging Leaflets**
- □ No
- □ Yes
- □ Not in Report
- □ Not Applicable

**VSD Patch**
- □ Gore-tex
- □ Dacron
- □ Bovine pericardium
- □ Autologous pericardium
- □ Allograft
- □ Other
- □ Cormatrix + Autologous Pericardium
- □ Pericardium-Type Unspecified

**ASD Patch**
- □ Gore-tex
- □ Dacron
- □ Bovine pericardium
- □ Autologous pericardium
- □ Allograft
- □ Other
- □ Cormatrix + Autologous Pericardium
- □ Pericardium-Type Unspecified

**VSD Patch Suture Line**
- □ Continuous
- □ Interrupted

**ASD Patch Suture Line**
- □ Continuous
- □ Interrupted

### Fenestrations

**Atrial**
- □ No
- □ Yes
- □ Not in Report
- □ Not Applicable

If yes, size ______ mm

**Ventricular**
- □ No
- □ Yes
- □ Not in Report
- □ Not Applicable
If yes, size ______ mm

**AV Valve Procedure**

<table>
<thead>
<tr>
<th>Procedure</th>
<th>No</th>
<th>Yes-complete</th>
<th>Yes-partial</th>
<th>Not in Report</th>
<th>Not Applicable</th>
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<tbody>
<tr>
<td>Cleft Closure</td>
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<td></td>
<td></td>
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<tr>
<td>Annuloplasty</td>
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<td>Chordal Resuspension</td>
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<tr>
<td>Leaflet Repair/Augmentation</td>
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<tr>
<td>Valve Replacement</td>
<td></td>
<td>Yes</td>
<td></td>
<td>Not in Report</td>
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</tbody>
</table>

**Valve Type**

- Single Valve
- Double Valve

**If Single Valve**

**Location of Valve:**

<table>
<thead>
<tr>
<th>Location</th>
<th>No</th>
<th>Yes</th>
<th>Not in Report</th>
<th>Not Applicable</th>
</tr>
</thead>
<tbody>
<tr>
<td>LAVV</td>
<td></td>
<td>Yes</td>
<td>Not in Report</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>RAVV</td>
<td></td>
<td>Yes</td>
<td>Not in Report</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>AoV</td>
<td></td>
<td>Yes</td>
<td>Not in Report</td>
<td>Not Applicable</td>
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<tr>
<td>Pulm</td>
<td></td>
<td>Yes</td>
<td>Not in Report</td>
<td>Not Applicable</td>
</tr>
</tbody>
</table>

**Valve Type:**

- Tissue
- Mechanical

**If Double Valve**

**Location of Valve 1:**

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<tr>
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<tr>
<td>Pulm</td>
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<td>Yes</td>
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**Location of Valve 2:**

<table>
<thead>
<tr>
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<td>Yes</td>
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<tr>
<td>Pulm</td>
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<td>Yes</td>
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AVSD Surgical Repair Form
Version Date: February 17, 2016

RAVV ☐ No ☐ Yes ☐ Not in Report ☐ Not Applicable If yes, size (mm): _______

AoV ☐ No ☐ Yes ☐ Not in Report ☐ Not Applicable If yes, size (mm): _______

Pulm ☐ No ☐ Yes ☐ Not in Report ☐ Not Applicable If yes, size (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 duct ligation
☐ 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 atioventricular 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, Nontransanular patch
- TOF repair, Ventriculotomy, Transanular 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 + WI
☐ Transplant, Heart
☐ Transplant, Heart and lung
☐ Partial left ventriculectomy (LV volume reduction surgery) (Batista)
☐ Pericardial drainage procedure
☐ Pericardectomy
☐ 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: __________________________

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☐ Sternotomy wound drainage
☐ Thoracotomy, Other
☐ Cardiomyotomy, Other
☐ Cardiomyotomy, 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)
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☐ AP window repair
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- PAPVC, Scimitar, Repair
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- 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, Nontransanular patch
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- TOF repair, RV-PA conduit
- TOF - AVC (AVSD) repair
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- MAPCA(s) Unifocalization
- MAPCA(s) Occlusion
- Tricuspid Valvuloplasty
- Tricuspid Valvuloplasty converted to valve replacement in the same operation
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- 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
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- PA, reconstruction (plasty), Branch, Central (within the hilar bifurcation)
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- 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 + Without aortic arch repair
☐ 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 + Atroventricular 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
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<th>Procedure Type</th>
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<td>Surgical Procedures</td>
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<td>Interrupted aortic arch repair</td>
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<td>Vascular ring repair</td>
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<td>Aortopexy</td>
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<td>Pulmonary artery sling repair</td>
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<td>Aneurysm Aortic aneurysm repair</td>
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<td>Aneurysm Aortic dissection repair</td>
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<td>Pacemaker explantation</td>
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<td>Pacemaker ICD (AICD) implantation</td>
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<tr>
<td>Pacemaker ICD (AICD) ([automatic] implantable cardioverter defibrillator) procedure</td>
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<td>Arrhythmia surgery - atrial, Surgical Ablation</td>
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<td>Arrhythmia surgery - ventricular, Surgical Ablation</td>
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<td>Cardiovascular catheterization procedure, Diagnostic</td>
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<td>Cardiovascular catheterization procedure, Therapeutic, Balloon dilation</td>
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<td>Cardiovascular catheterization procedure, Therapeutic, Transcatheter Fontan completion</td>
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<td>Cardiovascular catheterization procedure, Therapeutic, Transcatheter implantation of valve</td>
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<td>Cardiovascular electrophysiological catheterization procedure</td>
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<td>Cardiovascular electrophysiological catheterization procedure, Therapeutic ablation</td>
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<td>Shunt, Systemic to pulmonary, Modified Blalock-Taussig Shunt (MBTS)</td>
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<td>Shunt, Systemic to pulmonary, Central (from aorta or to main pulmonary artery)</td>
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<td>Shunt, Systemic to pulmonary, Other</td>
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<td>Shunt, Ligation and takedown</td>
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</table>
☐ Shunt, Reoperation
☐ PA banding (PAB)
☐ PA debanding

If other, specify: ______________

**Was there a 2nd bypass run to repair residual lesions?**

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<tr>
<th>Indication</th>
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**Right AV Valve:**

<table>
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<th>Procedure</th>
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<tbody>
<tr>
<td>Valvuloplasty</td>
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<td>Annuloplasty</td>
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</table>
Valve Replacement  ☐ No  ☐ Yes  ☐ Not in Report  ☐ Not Applicable
Additional Cleft Closure  ☐ No  ☐ Yes  ☐ Not in Report  ☐ Not Applicable
Removal of Cleft Sutures  ☐ No  ☐ Yes  ☐ Not in Report  ☐ Not Applicable

Left AV Valve:
Valvuloplasty  ☐ No  ☐ Yes  ☐ Not in Report  ☐ Not Applicable
Annuloplasty  ☐ No  ☐ Yes  ☐ Not in Report  ☐ Not Applicable
Valve Replacement  ☐ No  ☐ Yes  ☐ Not in Report  ☐ Not Applicable
Additional Cleft Closure  ☐ No  ☐ Yes  ☐ Not in Report  ☐ Not Applicable
Removal of Cleft Sutures  ☐ No  ☐ Yes  ☐ Not in Report  ☐ Not Applicable

LVOT Procedure  ☐ No  ☐ Yes  ☐ Not in Report  ☐ Not Applicable
Fenestration  Atrial  ☐ No  ☐ Yes  ☐ Not in Report  ☐ Not Applicable
Fenestration  VSD  ☐ No  ☐ Yes  ☐ Not in Report  ☐ 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 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
☐ 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, Nontransanular patch
☐ TOF repair, Ventriculotomy, Transanular 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 + Without aortic arch repair
☐ Transplant, Heart
☐ Transplant, Heart and lung
☐ Partial left ventriculectomy (LV volume reduction surgery) (Batista)
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☐ Pericardiectomy
☐ Pericardial procedure, Other
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☐ Congenitally corrected TGA repair, Atrial switch and ASO (double switch)
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☐ 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
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☐ Tracheal procedure
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☐ Pacemaker procedure
☐ Pacemaker explantation
☐ Pacemaker ICD (AICD) implantation
☐ Pacemaker ICD (AICD) ([automatic] implantable cardioverter defibrillator) procedure
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☐ 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
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☐ 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 to 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:
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☐ 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
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☐ VAD implantation
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☐ 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
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☐ Pulmonary artery Ligation
☐ Pulmonary embolectomy, Acute pulmonary embolus
☐ Pulmonary embolectomy, Chronic pulmonary embolus
☐ Pleural drainage procedure
☐ Pleural procedure, Other
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☐ Decortication
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☐ 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 repair
☐ 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, Nontransanular patch
☐ TOF repair, Ventriculotomy, Transanular 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,
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☐ 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
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☐ Aortic Other annular enlargement procedure
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☐ 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
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☐ Congenitally corrected TGA repair, VSD closure and LV to PA conduit
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☐ 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
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☐ Coronary artery bypass
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☐ Vascular ring repair
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☐ Aneurysm Aortic aneurysm repair
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☐ 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
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☐ Shunt, Systemic to pulmonary, Modified Blalock-Taussig Shunt (MBTS)  
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☐ 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  
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### LVOT Procedure

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### 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 duct Ligation
☐ Decortications
☐ 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
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☐ 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
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<td>Arrhythmia surgery - atrial, Surgical Ablation</td>
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<td>Arrhythmia surgery - ventricular, Surgical Ablation</td>
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<td>Cardiovascular catheterization procedure, Diagnostic</td>
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<td>Cardiovascular catheterization procedure, Diagnostic, Angiographic data obtained</td>
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<td>Cardiovascular catheterization procedure, Diagnostic, Electrophysiology alteration</td>
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<td>Cardiovascular catheterization procedure, Diagnostic, Hemodynamic alteration</td>
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<td>Cardiovascular catheterization procedure, Diagnostic, Hemodynamic data obtained</td>
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<td>Cardiovascular catheterization procedure, Diagnostic, Transluminal test occlusion</td>
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<td>Cardiovascular catheterization procedure, Therapeutic</td>
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<td>Cardiovascular catheterization procedure, Therapeutic, Adjunctive therapy</td>
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<td>Cardiovascular catheterization procedure, Therapeutic, Balloon dilation</td>
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<td>Cardiovascular catheterization procedure, Therapeutic, Balloon valvotomy</td>
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<td>Cardiovascular catheterization procedure, Therapeutic, Coil implantation</td>
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<td>Cardiovascular catheterization procedure, Therapeutic, Device implantation</td>
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<tr>
<td>Cardiovascular catheterization procedure, Therapeutic, Perforation (establishing interchamber and/or intervessel communication)</td>
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☐ 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:

☐