

Not Started **Tier 1 Surgery Form**

Print this Form

Date of Surgery  DD/MM/YYYY

**1 Primary Cardiac Procedure**

Select the patient's primary surgical procedure. If the patient has multiple operating room visits, these should be reported on additional "New Surgery Forms".

- AV Canal
- Atrioventricular (AV, AVSD) Septal Repair, Complete
- Atrioventricular (AV, AVSD) Septal Repair , Intermediate (Transitional)
- Atrioventricular (AV, AVSD) Septal Repair , Partial (Incomplete) (PAVSD)
- Coarctation of Aorta and Aortic arch hypoplasia
- 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, Extra-anatomic Bypass
- Hypoplastic Left Heart and Related malformations
- Norwood procedure (w/mBT shunt)
- Norwood procedure (RV-PA Conduit)
- Hypoplastic Left Heart Syndrome (HLHS) Biventricular Repair
- Bidirectional cavopulmonary anastomosis (BDCPA) (bidirectional Glenn)
- Glenn (unidirectional cavopulmonary anastomosis) (unidirectional Glenn)
- Bilateral bidirectional cavopulmonary anastomosis (BBDCPA) (bilateral bidirectional Glenn)
- Hemi-Fontan
- Partial Anomalous Pulmonary Venous Connection
- Partial Anomalous Pulmonary Venous Connection (PAPVC) repair
- Partial Anomalous Pulmonary Venous Connection (PAPVC), Scimitar, Repair
- PAPVC repair, Baffle redirection to left atrium with systemic vein translocation (Warden) (SVC sewn to right atrial appendage)
- Single Ventricle
- Fontan Operation (Complete Cavo-pulmonary anastomosis), Extracardiac Type: Fenestrated
- Fontan Operation (Complete Cavo-pulmonary anastomosis), Extracardiac Type: Non-fenestrated
- Fontan Operation (Complete Cavo-pulmonary anastomosis), Lateral Tunnel Type
- Fontan Operation (Complete Cavo-pulmonary anastomosis), Extra/Intra Cardiac Type
- Fontan Operation (Complete Cavo-pulmonary anastomosis), Internal Conduit Type
- Fontan Operation (Complete Cavo-pulmonary anastomosis), Other
- Fontan, Other
- Tetralogy of Fallot Repair
- Tetralogy of Fallot (TOF) repair
- Tetralogy of Fallot (TOF) repair, Ventriculotomy
- Tetralogy of Fallot (TOF) repair, Transannular patch
- Tetralogy of Fallot (TOF) repair, RV-PA conduit
- Tetralogy of Fallot (TOF) repair, Pulmonary Artery (PA) Reconstruction
- Tetralogy of Fallot (TOF) repair, Valvotomy
- Total Anomalous Pulmonary Venous Connection
- Total Anomalous Pulmonary Venous Connection (TAPVC) repair
- Transposition of the Great Arteries
- Arterial switch operation (ASO)
- Tricuspid Valve Disease and Ebstein's Anomaly
- Ebstein's repair
- Truncus Arteriosus
- Truncus arteriosus repair
- VSD
- Ventricular Septal Defect (VSD) repair, Primary closure
- Ventricular Septal Defect (VSD) repair, Patch
- Ventricular Septal Defect (VSD) repair, Device
- Ventricular Septal Defect (VSD), Multiple, Repair
- Ventricular Septal Defect (VSD) creation/enlargement

**2. Were there additional cardiac procedures done in the same OR visit?**  Yes  No  Unknown

**2a. Additional Cardiac Procedures**

0 option(s) selected

Anomalous systemic venous connection	<input type="checkbox"/> Supravalvar mitral ring repair: resection
<input type="checkbox"/> Anomalous systemic venous connection repair	<input type="checkbox"/> Mitral Valve (MV) Repair (Left Atrioventricular Valve)
Aortic Aneurysm	Mitral Valve Replacement (Left Atrioventricular Valve)
<input type="checkbox"/> Aortic aneurysm repair	<input type="checkbox"/> Mitral Valve (MV) Replacement, Mechanical
Aortic Dissection	<input type="checkbox"/> Mitral Valve (MV) Replacement, Bioprosthetic
<input type="checkbox"/> Aortic Dissection repair	<input type="checkbox"/> Mitral Valve (MV) Replacement, Homograft
Aortic Root Replacement	Palliative Procedures
<input type="checkbox"/> Aortic Root Replacement, Bioprosthetic	<input type="checkbox"/> Shunt, Systemic to pulmonary, Modified Blalock-Taussig Shunt (MBTS)
<input type="checkbox"/> Aortic Root Replacement, Mechanical	<input type="checkbox"/> Shunt, Systemic to pulmonary, Central (shunt from aorta)
<input type="checkbox"/> Aortic Root Replacement, Homograft	<input type="checkbox"/> Shunt, Systemic to pulmonary, Other
<input type="checkbox"/> Aortic Root Replacement, Valve sparing	<input type="checkbox"/> Pulmonary Artery banding (PAB)
Aortic Valve Disease	<input type="checkbox"/> Pulmonary Artery debanding
<input type="checkbox"/> Ross procedure	<input type="checkbox"/> Damus-Kaye-Stansel procedure (DKS) (creation of Aorto-pulmonary anastomosis without arch reconstruction)
<input type="checkbox"/> Konno procedure (with and without aortic valve replacement)	<input type="checkbox"/> Bidirectional cavopulmonary anastomosis (BDCPA) (bidirectional Glenn)
<input type="checkbox"/> Ross Konno Procedure	<input type="checkbox"/> Glenn (unidirectional cavopulmonary anastomosis) (unidirectional Glenn)
<input type="checkbox"/> Repair of Supraaortic Stenosis	<input type="checkbox"/> Bilateral bidirectional cavopulmonary anastomosis (BBDCPA) (bilateral bidirectional Glenn)
<input type="checkbox"/> Other aortic annular enlargement procedure	<input type="checkbox"/> Hemi-Fontan
<input type="checkbox"/> Aortic Valve Repair	<input type="checkbox"/> Hepatic vein to azygous vein connection, Direct or with Interposition Graft
Aortic Valve Replacement	<input type="checkbox"/> Kawashima operation (superior cavopulmonary connection in setting of interrupted IVC with azygous continuation)
<input type="checkbox"/> Aortic Valve Replacement (AVR), Mechanical	<input type="checkbox"/> Bidirectional cavopulmonary anastomosis (BDCPA) (bidirectional Glenn) Re-repair (within 90 days)
<input type="checkbox"/> Aortic Valve Replacement (AVR), Bioprosthetic	
<input type="checkbox"/> Aortic Valve Replacement (AVR), Homograft	
AP Window	Partial Anomalous Pulmonary Venous Connection
<input type="checkbox"/> Aorto-pulmonary (AP) window repair	<input type="checkbox"/> Partial Anomalous Pulmonary Venous Connection (PAPVC) repair
<input type="checkbox"/> Pulmonary artery origin from ascending aorta (hemitruncus) repair	<input type="checkbox"/> Partial Anomalous Pulmonary Venous Connection (PAPVC), Scimitar, Repair
ASD	<input type="checkbox"/> PAPVC repair, Baffle redirection to left atrium with systemic vein translocation (Warden) (SVC sewn to right atrial appendage)
<input type="checkbox"/> Patent Foramen Ovale (PFO), Primary closure	<input type="checkbox"/> Partial Anomalous Pulmonary Venous Connection (PAPVC) Re-repair (within 90 days)
<input type="checkbox"/> Atrial Septal Defect (ASD) repair, Partial closure	
<input type="checkbox"/> Atrial Septal Defect (ASD) repair, Primary closure	Patent Ductus Arteriosus
<input type="checkbox"/> Atrial Septal Defect (ASD) repair, Patch	<input type="checkbox"/> Patent Ductus Arteriosus (PDA) closure, device
<input type="checkbox"/> Atrial Septal Defect (ASD) repair, Device	<input type="checkbox"/> Patent Ductus Arteriosus (PDA) closure, Surgical
<input type="checkbox"/> Atrial Septal Defect (ASD) repair, Patch + Partial anomalous pulmonary venous connection repair	
<input type="checkbox"/> Atrial Septal Defect (ASD), Common atrium (single atrium), Septation	Pericardial Disease
<input type="checkbox"/> Atrial Septal Defect (ASD) creation/enlargement	<input type="checkbox"/> Pericardial drainage procedure
<input type="checkbox"/> Atrial Septal Fenestration	<input type="checkbox"/> Pericardiectomy
<input type="checkbox"/> Atrial fenestration closure	<input type="checkbox"/> Pericardial procedure, Other
AV Canal	Pulmonary Atresia/VSD
<input type="checkbox"/> Atrioventricular (AV, AVSD) Septal Repair, Complete	<input type="checkbox"/> Pulmonary atresia - VSD (including TOF, PA) repair
<input type="checkbox"/> Atrioventricular (AV, AVSD) Septal Repair , Intermediate (Transitional)	<input type="checkbox"/> Pulmonary atresia - VSD – MAPCA repair, Complete single stage repair (1 stage that includes pulmonary unifocalization + VSD closure + RV to PA connection [with or without conduit])
<input type="checkbox"/> Atrioventricular (AV, AVSD) Septal Repair , Partial (Incomplete) (PAVSD)	<input type="checkbox"/> Pulmonary atresia - VSD – MAPCA repair, Status post prior complete unifocalization (includes VSD closure + RV to PA connection [with or without conduit])
<input type="checkbox"/> Common atrioventricular (AV) valve Repair	<input type="checkbox"/> Pulmonary atresia - VSD – MAPCA repair, Status post prior incomplete unifocalization (includes completion of pulmonary unifocalization + VSD closure + RV to PA connection [with or without conduit])
<input type="checkbox"/> Common atrioventricular (AV) valve Replacement	<input type="checkbox"/> Unifocalization MAPCA(s), Bilateral pulmonary unifocalization
<input type="checkbox"/> Atrioventricular (AV, AVSD) Septal Defect Re-repair (within 90 days)	<input type="checkbox"/> Unifocalization MAPCA(s), Unilateral pulmonary unifocalization
Cardiomyopathy	Pulmonary Valve Disease
<input type="checkbox"/> Transplant, Heart	<input type="checkbox"/> Pulmonary Valve (PV) Replacement, Mechanical
<input type="checkbox"/> Transplant, Heart and lung	<input type="checkbox"/> Pulmonary Valve (PV) Replacement, Bioprosthetic
Coarctation of Aorta and Aortic arch hypoplasia	
<input type="checkbox"/> Coarctation repair, End to end	
<input type="checkbox"/> Coarctation repair, End to end, Extended	
<input type="checkbox"/> Coarctation repair, Subclavian flap	
<input type="checkbox"/> Coarctation repair, Patch aortoplasty	

- Coarctation repair, Interposition graft
- Coarctation repair, Other
- Coarctation repair + Ventricular Septal Defect repair
- Aortic arch repair
- Aortic arch repair + Ventricular Septal Defect repair
- Coarctation repair, Extra-anatomic Bypass
- Coarctation Re-repair (within 90 days)

#### Conduit Operations

- Conduit placement, Right Ventricle (RV) to Pulmonary Artery (PA) (primary or reoperation)
- Conduit placement, Left Ventricle (LV) to Pulmonary Artery (PA)
- Conduit placement, Ventricle to aorta

#### Congenitally Corrected TGA

- Congenitally corrected Transposition of the Great Arteries (TGA) repair, Atrial switch and ASO (double switch)
- Congenitally corrected Transposition of the Great Arteries (TGA) repair, Atrial switch and Rastelli
- Congenitally corrected Transposition of the Great Arteries (TGA) repair, VSD closure
- Congenitally corrected Transposition of the Great Arteries (TGA) repair, VSD closure and Left ventricular to Pulmonary Artery conduit
- Congenitally corrected Transposition of the Great Arteries (TGA) repair, Other

#### Cor triatriatum

- Cor triatriatum repair

#### Coronary Artery Anomalies

- Coronary artery fistula ligation
- Anomalous origin of coronary artery from pulmonary artery repair
- Coronary artery bypass (CABG)
- Anomalous aortic origin of coronary artery (AAOCA) repair
- Coronary artery procedure, Other

#### DOLV

- Double Outlet Left Ventricle repair (DOLV)

#### DORV

- Double Outlet Right Ventricle (DORV), Intraventricular tunnel repair

#### Electrophysiological

- Pacemaker implantation, Permanent
- ICD (AICD) implantation
- Arrhythmia surgery - atrial, Surgical Ablation
- Arrhythmia surgery - ventricular, Surgical Ablation

#### Hybrid

- Hybrid Approach "Stage 1", Application of RPA & LPA bands
- Hybrid Approach "Stage 1", Stent placement in arterial duct (PDA)
- Hybrid Approach "Stage 1", Stent placement in arterial duct (PDA) + application of RPA & LPA bands
- Hybrid approach "Stage 2", Aortopulmonary amalgamation + Superior Cavopulmonary anastomosis(es) + PA Debanding + Aortic arch repair (Norwood [Stage 1] + Superior Cavopulmonary anastomosis(es) + PA Debanding)
- Hybrid approach "Stage 2", Aortopulmonary amalgamation + Superior Cavopulmonary anastomosis(es) + PA Debanding + Without aortic arch repair Hybrid Approach, Transcardiac balloon dilatation
- Hybrid Approach, Transcardiac balloon dilatation
- Hybrid Approach, Transcardiac transcatheter device placement

#### Hypoplastic Left Heart and Related malformations

- Norwood procedure (w/mBT shunt)

- Pulmonary Valve (PV) Replacement, Homograft
- Pulmonary Valve (PV) Repair

#### Pulmonary venous stenosis

- Pulmonary venous stenosis repair

#### Repair of Subaortic Stenosis

- Membrane Resection
- Myomectomy
- Extended Myomectomy

#### RVOT Obstruction, IVS Pulmonary Stenosis

- Right ventricular Outflow Tract (RVOT) procedure and/or Transannular patch
- 1 1/2 ventricular repair
- Pulmonary Artery (PA), reconstruction, Main
- Pulmonary Artery (PA), reconstruction, Central
- Pulmonary Artery (PA), reconstruction, Peripheral
- Double Chamber Right Ventricle (DCRV)

#### Single Ventricle

- Fontan Operation (Complete Cavo-pulmonary anastomosis), Extracardiac Type: Fenestrated
- Fontan Operation (Complete Cavo-pulmonary anastomosis), Extracardiac Type: Non-fenestrated
- Fontan Operation (Complete Cavo-pulmonary anastomosis), Lateral Tunnel Type
- Fontan Operation (Complete Cavo-pulmonary anastomosis), Extra/Intra Cardiac Type
- Fontan Operation (Complete Cavo-pulmonary anastomosis), Internal Conduit Type
- Fontan Operation (Complete Cavo-pulmonary anastomosis), Other
- Fontan revision or conversion (Re-do Fontan)
- Fontan, Other
- Ventricular septation
- Fontan Re-repair (within 90 days)

#### Sinus of Valsalva Aneurysm

- Sinus of Valsalva, Aneurysm repair

#### Systemic venous obstruction

- Systemic venous stenosis repair

#### Tetralogy of Fallot Repair

- Tetralogy of Fallot (TOF) repair
- Tetralogy of Fallot (TOF) repair, Ventriculotomy
- Tetralogy of Fallot (TOF) repair, Transannular patch
- Tetralogy of Fallot (TOF) repair, RV-PA conduit
- Tetralogy of Fallot (TOF) repair/Atrioventricular septal defect (AVSD) repair
- Tetralogy of Fallot (TOF) - Absent pulmonary valve (PV) repair
- Tetralogy of Fallot (TOF) repair, Pulmonary Artery (PA) Reconstruction
- Tetralogy of Fallot (TOF) repair, Valvotomy
- Tetralogy of Fallot (TOF) Re-repair (within 90 days)

#### Total Anomalous Pulmonary Venous Connection

- Total Anomalous Pulmonary Venous Connection (TAPVC) repair
- Total Anomalous Pulmonary Venous Connection (TAPVC) Re-repair (within 90 days)

#### Transposition of the Great Arteries

- Arterial switch operation (ASO)
- Arterial switch operation (ASO) and VSD repair
- Arterial switch procedure + Aortic arch repair

- Norwood procedure (RV-PA Conduit)
- Conduit insertion right ventricle (RV) to pulmonary artery (PA) + Intraventricular tunnel left ventricle (LV) to neo-aorta + arch reconstruction (Rastelli and Norwood type arch reconstruction) (Yasui)
- Norwood procedure Re-repair (within 90 days)

Interrupted Arch

- Interrupted aortic arch repair

LV to Aorta Tunnel

- LV to aorta tunnel repair

Mechanical Support

- Extracorporeal membrane oxygenation (ECMO) Cannulation
- Extracorporeal membrane oxygenation (ECMO) Decannulation
- Right Heart Temporary Ventricular Assist Device (RVAD)
- Right Heart Long-Term Ventricular Assist Device (RVAD)
- Left Heart Temporary Ventricular Assist Device (LVAD)
- Left Heart Long-Term Ventricular Assist Device (LVAD)
- Total Artificial Heart (TAH)

Miscellaneous Procedures

- Aneurysm, Ventricular, Right, Repair
- Aneurysm, Ventricular, Left, Repair
- Aneurysm, Pulmonary artery (PA), Repair
- Cardiac tumor resection
- Pulmonary AV fistula repair/occlusion
- Ligation, Pulmonary artery (PA)
- Pulmonary embolectomy, Acute pulmonary embolus (PE)
- Pulmonary embolectomy, Chronic pulmonary embolus (PE)
- Procedures for Chylothorax
- Other, specify

Mitral Valve Disease

- Arterial switch procedure and VSD repair + Aortic arch repair
- Arterial switch operation (ASO) Re-repair (within 90 days)
- Senning
- Mustard
- Atrial baffle procedure, Mustard or Senning revision
- Rastelli
- Reparation A L Etage Ventriculaire (REV)
- Aortic root translocation over left ventricle (Including Nikaidoh procedure)
- Transposition of the Great Arteries (TGA), Other procedures (Kawashima, Left Ventricular to Pulmonary Artery conduit, other)

Tricuspid Valve Disease and Ebstein's Anomaly

- Ebstein's repair
- Tricuspid Valve (TV) Replacement (Right Atrioventricular Valve)
- Tricuspid Valve (TV) Repair (Right Atrioventricular Valve)
- Ebstein's Re-repair (within 90 days)

Truncus Arteriosus

- Truncus arteriosus repair
- Truncal Valve Repair
- Truncal Valve Replacement
- Truncus + Interrupted aortic arch repair (IAA) repair
- Truncus arteriosus Re-repair (within 90 days)

Vascular Rings and Slings

- Vascular ring repair
- Aortopexy
- Pulmonary artery (PA) sling repair

VSD

- Ventricular Septal Defect (VSD) repair, Primary closure
- Ventricular Septal Defect (VSD) repair, Patch
- Ventricular Septal Defect (VSD) repair, Device
- Ventricular Septal Defect (VSD), Multiple, Repair
- Ventricular Septal Defect (VSD) creation/enlargement
- Ventricular septal patch fenestration
- Ventricular Septal Defect (VSD) Re-repair (within 90 days)

### 3 Primary Cardiac Diagnosis

■ Related to this surgery (Check only one). Select the structural heart disease (such as aortic stenosis, valvar) as the primary diagnosis. Other diagnoses (such as rheumatic heart disease) will be listed as additional diagnoses.

Anomalous Systemic Venous Connection

- Systemic venous anomaly

Aortic Aneurysm

- Aortic aneurysm (including pseudoaneurysm)

Aortic dissection

- Aortic dissection

Aortic Valve Disease

- Aortic stenosis, Subvalvar
- Aortic stenosis, Valvar
- Aortic stenosis, Supravalvar
- Aortic valve atresia
- Aortic insufficiency
- Aortic insufficiency and aortic stenosis
- Aortic valve, Other

Mitral Valve Disease

- Mitral stenosis (Annular Hypoplasia)
- Mitral stenosis, Subvalvar
- Mitral stenosis, Subvalvar, Parachute
- Mitral stenosis, Supravalvar mitral ring
- Mitral stenosis, Valvar
- Mitral regurgitation
- Mitral regurgitation and mitral stenosis
- Mitral valve (MV), Other

Partial anomalous pulmonary venous connection

- Partial anomalous pulmonary venous connection (PAPVC)
- Partial anomalous pulmonary venous connection (PAPVC), scimitar

Patent ductus arteriosus

- Patent ductus arteriosus (PDA)

<p><b>AP Window</b></p> <ul style="list-style-type: none"> <li><input type="radio"/> Aorto-pulmonary (AP) window (aortopulmonary window)</li> <li><input type="radio"/> Pulmonary artery origin from ascending aorta (hemitruncus)</li> </ul>	<p><b>Pericardial Disease</b></p> <ul style="list-style-type: none"> <li><input type="radio"/> Pericardial Disease (Non Specific)</li> </ul>
<p><b>ASD</b></p> <ul style="list-style-type: none"> <li><input type="radio"/> Patent oval foramen (patent foramen ovale) (PFO)</li> <li><input type="radio"/> Atrial Septal Defect (ASD), Secundum</li> <li><input type="radio"/> Atrial Septal Defect (ASD), Venosus</li> <li><input type="radio"/> Atrial Septal Defect (ASD), Coronary Sinus</li> <li><input type="radio"/> Atrial Septal Defect (ASD), Common Atrium (single Atrium)</li> </ul>	<p><b>Pulmonary atresia</b></p> <ul style="list-style-type: none"> <li><input type="radio"/> Pulmonary atresia</li> <li><input type="radio"/> Pulmonary atresia, Intact Ventricular Spetum</li> <li><input type="radio"/> Pulmonary atresia, VSD (Including TOF, PA)</li> <li><input type="radio"/> Pulmonary atresia, Ventricular Septal Defect (VSD) - Multiple aorto-pulmonary collateral artery</li> <li><input type="radio"/> Pulmonary atresia MAPCA(s) (major aortopulmonary collateral[s]) (without PA-VSD)</li> </ul>
<p><b>AV Canal</b></p> <ul style="list-style-type: none"> <li><input type="radio"/> Atrioventricular (AV) Canal Defect, Intermediate (transitional)</li> <li><input type="radio"/> Atrioventricular (AV) Canal Defect, Partial (incomplete) (PAVSD) (ASD, primum)</li> <li><input type="radio"/> Complete Atrioventricular (AV) Canal Defect</li> </ul>	<p><b>Pulmonary Valve Disease</b></p> <ul style="list-style-type: none"> <li><input type="radio"/> Pulmonary insufficiency</li> <li><input type="radio"/> Pulmonary valve, Other</li> <li><input type="radio"/> Pulmonary insufficiency and pulmonary stenosis</li> </ul>
<p><b>Cardiomyopathy</b></p> <ul style="list-style-type: none"> <li><input type="radio"/> Cardiomyopathy (including dilated, restrictive, and hypertrophic)</li> <li><input type="radio"/> Cardiomyopathy, End-stage congenital heart disease</li> </ul>	<p><b>Pulmonary venous stenosis</b></p> <ul style="list-style-type: none"> <li><input type="radio"/> Pulmonary venous stenosis</li> </ul>
<p><b>Coarctation of Aorta and Aortic arch hypoplasia</b></p> <ul style="list-style-type: none"> <li><input type="radio"/> Coarctation of aorta</li> <li><input type="radio"/> Aortic arch hypoplasia</li> <li><input type="radio"/> Ventricular Septal Defect (VSD) + Aortic arch hypoplasia</li> <li><input type="radio"/> Ventricular Septal Defect (VSD) + Coarctation of aorta</li> </ul>	<p><b>RVOT Obstruction and/or Pulmonary Stenosis</b></p> <ul style="list-style-type: none"> <li><input type="radio"/> Pulmonary stenosis, Valvar</li> <li><input type="radio"/> Pulmonary stenosis, Subvalvar</li> <li><input type="radio"/> Pulmonary artery stenosis (hypoplasia), Main (trunk) (Supravalvular Stenosis)</li> <li><input type="radio"/> Pulmonary artery stenosis, Branch, Central (within the hilar bifurcation)</li> <li><input type="radio"/> Pulmonary artery stenosis, Branch, Peripheral (at or beyond the hilar bifurcation)</li> <li><input type="radio"/> Pulmonary artery, Discontinuous</li> <li><input type="radio"/> Double Chamber Right Ventricle (DCRV)</li> </ul>
<p><b>Conduit Failure</b></p> <ul style="list-style-type: none"> <li><input type="radio"/> Conduit Failure</li> </ul>	<p><b>Shone's syndrome</b></p> <ul style="list-style-type: none"> <li><input type="radio"/> Shone's syndrome</li> </ul>
<p><b>Congenitally Corrected TGA</b></p> <ul style="list-style-type: none"> <li><input type="radio"/> Congenitally corrected Transposition of the Great Arteries (TGA), Intact Ventricular Septum (IVS)</li> <li><input type="radio"/> Congenitally corrected Transposition of the Great Arteries (TGA)</li> <li><input type="radio"/> Congenitally Corrected TGA Congenitally corrected Transposition of the Great Arteries (TGA), Intact Ventricular Septum (IVS)-Left Ventricular Outflow Tract (LVOT) Obstruction</li> <li><input type="radio"/> Congenitally Corrected TGA Congenitally corrected Transposition of the Great Arteries (TGA), Ventricular Septal Defect (VSD)</li> <li><input type="radio"/> Congenitally Corrected TGA Congenitally corrected Transposition of the Great Arteries (TGA), Ventricular Septal Defect (VSD)-Left Ventricular Outflow Tract (LVOT) Obstruction</li> </ul>	<p><b>Shunt Failure</b></p> <ul style="list-style-type: none"> <li><input type="radio"/> Shunt Failure</li> </ul>
<p><b>Cor triatriatum</b></p> <ul style="list-style-type: none"> <li><input type="radio"/> Cor triatriatum</li> </ul>	<p><b>Single Ventricle</b></p> <ul style="list-style-type: none"> <li><input type="radio"/> Single ventricle, Double Inlet left ventricle (DILV)</li> <li><input type="radio"/> Single ventricle, Double Inlet Right Ventricle (DIRV)</li> <li><input type="radio"/> Single ventricle, Mitral atresia</li> <li><input type="radio"/> Single ventricle, Unbalanced Atrio-ventricular canal (AV Canal) Defect</li> <li><input type="radio"/> Single ventricle, Heterotaxia syndrome</li> <li><input type="radio"/> Single ventricle, Other</li> <li><input type="radio"/> Single ventricle + Total anomalous pulmonary venous connection (TAPVC)</li> <li><input type="radio"/> Single ventricle, Tricuspid atresia</li> </ul>
<p><b>Coronary Artery Anomalies</b></p> <ul style="list-style-type: none"> <li><input type="radio"/> Coronary artery anomaly, Aneurysm</li> <li><input type="radio"/> Coronary artery anomaly, Anomalous aortic origin of coronary artery (AAOCA) (AAOCA)</li> <li><input type="radio"/> Coronary artery anomaly, Anomalous pulmonary origin (includes ALCAPA)</li> <li><input type="radio"/> Coronary artery anomaly, Fistula</li> <li><input type="radio"/> Coronary artery anomaly, Other</li> </ul>	<p><b>Sinus of Valsalva Fistula/Aneurysm</b></p> <ul style="list-style-type: none"> <li><input type="radio"/> Sinus of Valsalva aneurysm</li> </ul>
<p><b>DOLV</b></p> <ul style="list-style-type: none"> <li><input type="radio"/> Double Outlet Left Ventricle (DOLV)</li> </ul>	<p><b>Systemic venous obstruction</b></p> <ul style="list-style-type: none"> <li><input type="radio"/> Systemic venous obstruction</li> </ul>
<p><b>DORV</b></p> <ul style="list-style-type: none"> <li><input type="radio"/> Double Outlet Right Ventricle (DORV)</li> <li><input type="radio"/> Double Outlet Right Ventricle (DORV), Atrioventricular (AV) Septal Defect</li> <li><input type="radio"/> Double Outlet Right Ventricle (DORV), Intact Ventricular Septum (IVS)</li> <li><input type="radio"/> Double Outlet Right Ventricle (DORV), Remote VSD (Uncommitted)</li> <li><input type="radio"/> Double Outlet Right Ventricle (DORV), Tetralogy of Fallot (TOF) type</li> <li><input type="radio"/> Double Outlet Right Ventricle (DORV), Transposition of Great Arteries (TGA) Type</li> </ul>	<p><b>Tetralogy of Fallot</b></p> <ul style="list-style-type: none"> <li><input type="radio"/> Tetralogy of Fallot (TOF)</li> <li><input type="radio"/> Tetralogy of Fallot (TOF), Pulmonary stenosis</li> <li><input type="radio"/> Tetralogy of Fallot (TOF), complete Atrio-ventricular (AV) septal Defect</li> <li><input type="radio"/> Tetralogy of Fallot (TOF), Absent pulmonary valve</li> </ul>
<p><b>Electrophysiological</b></p>	<p><b>Total anomalous pulmonary venous connection</b></p> <ul style="list-style-type: none"> <li><input type="radio"/> Total anomalous pulmonary venous connection (TAPVC), Type 1 (supracardiac)</li> <li><input type="radio"/> Total anomalous pulmonary venous connection (TAPVC), Type 2 (cardiac)</li> <li><input type="radio"/> Total anomalous pulmonary venous connection (TAPVC), Type 3 (infracardiac)</li> </ul>

- Arrhythmia
  - Arrhythmia, atrial
  - Arrhythmia, heart block
  - Arrhythmia, ventricular
- 
- Hypoplastic left heart syndrome
- Hypoplastic left heart syndrome (HLHS)
- 
- Interrupted Arch
- Interrupted aortic arch (IAA)
  - Interrupted aortic arch (IAA) + Aorto-Pulmonary window
  - Interrupted aortic arch (IAA) + Ventricular Septal Defect (VSD)
- 
- LV to Aorta Tunnel
- Left Ventricular to aorta tunnel
- 
- Miscellaneous, Other
- Atrial Isomerism, Left
  - Atrial Isomerism, Right
  - Dextrocardia
  - Levocardia
  - Mesocardia
  - Aneurysm, Pulmonary artery
  - Prosthetic valve failure
  - Cardiac trauma
  - Cardiac tumor
  - Pulmonary vascular obstructive disease (Eisenmenger's)
  - Prosthetic valve Endocarditis
  - Situs inversus
  - Aneurysm, Other
  - Aneurysm, Ventricular, Left (including pseudoaneurysm)
  - Aneurysm, Ventricular, Right (including pseudoaneurysm)

- Total anomalous pulmonary venous connection (TAPVC), Type 4 (mixed)
- 
- Transposition of the Great Arteries
- Transposition of the Great Arteries (TGA), Intact Ventricular Septum (IVS) -Left Ventricular Outflow Tract (LVOT) Obstruction
  - Transposition of the Great Arteries (TGA), Ventricular Septal Defect (VSD)
  - Transposition of the Great Arteries (TGA), Intact Ventricular Septum (IVS)
  - Transposition of the Great Arteries (TGA), Ventricular Septal Defect (VSD) -Left Ventricular Outflow Tract (LVOT) Obstruction
- 
- Tricuspid Valve Disease and Ebstein's Anomaly
- Ebstein's anomaly
  - Tricuspid regurgitation, non-Ebstein's related
  - Tricuspid regurgitation and tricuspid stenosis
  - Tricuspid stenosis
  - Tricuspid valve (TV), Other
- 
- Truncus arteriosus
- Truncus arteriosus
  - Truncus arteriosus + Interrupted aortic arch (IAA)
  - Truncal valve insufficiency
- 
- Vascular rings and Slings
- Vascular Ring
  - Pulmonary Artery (PA) Sling
- 
- VSD
- VSD Ventricular Septal Defect (VSD), Type 1 (Subarterial) (Supracristal) (Conal septal defect) (Infundibular)
  - VSD Ventricular Septal Defect (VSD), Type 2 (Perimembranous) (Paramembranous) (Conoventricular)
  - VSD Ventricular Septal Defect (VSD), Type 3 (Inlet) (AV canal type)
  - VSD Ventricular Septal Defect (VSD), Type 4 (Muscular)
  - VSD Ventricular Septal Defect (VSD), Type: Gerbode type (LV-RA communication)
  - VSD Ventricular Septal Defect (VSD), Multiple

**3a. Aortic Arch Coarctation?**  Yes  
 No  
 Unknown

**3b. Aortic Arch Hypoplasia?**  Yes  
 No  
 Unknown

**3c. Aortic Valve Atresia?**  Yes  
 No  
 Unknown

**3d. Aortic Valve Stenosis?**  Yes  
 No  
 Unknown

**3e. Aortic Valve Hypoplasia?**  Yes  
 No  
 Unknown

**3f. Mitral Valve Atresia?**  Yes  
 No  
 Unknown

**3g. Mitral Valve Stenosis?**  Yes  
 No  
 Unknown

**3h. Mitral Valve Hypoplasia?**  Yes  
 No  
 Unknown

**3i. Ventricular Septal Defect?**  Yes  
 No  
 Unknown

**3j. Left Ventricle Size?**  Normal  
 Small  
 Unknown

**4. Are there any additional Cardiac Diagnoses?**  Yes  
 No  
 Unknown

**4a. Additional Cardiac Diagnoses**

Check all that apply. List the structural heart disease (such as aortic stenosis, valvar) as the primary diagnosis and other diagnoses (such as rheumatic heart disease) here.

0 option(s) selected

- |  |  |
|--|--|
| <p><u>Anomalous Systemic Venous Connection</u></p> <p><input type="checkbox"/> Systemic venous anomaly</p> <p><u>Aortic Aneurysm</u></p> <p><input type="checkbox"/> Aortic aneurysm (including pseudoaneurysm)</p> <p><u>Aortic dissection</u></p> <p><input type="checkbox"/> Aortic dissection</p> <p><u>Aortic Valve Disease</u></p> <p><input type="checkbox"/> Aortic stenosis, Subvalvar</p> <p><input type="checkbox"/> Aortic stenosis, Valvar</p> <p><input type="checkbox"/> Aortic stenosis, Supravalvar</p> <p><input type="checkbox"/> Aortic valve atresia</p> <p><input type="checkbox"/> Aortic insufficiency</p> <p><input type="checkbox"/> Aortic insufficiency and aortic stenosis</p> <p><input type="checkbox"/> Aortic valve, Other</p> <p><u>AP Window</u></p> <p><input type="checkbox"/> Aorto-pulmonary (AP) window (aortopulmonary window)</p> <p><input type="checkbox"/> Pulmonary artery origin from ascending aorta (hemitruncus)</p> | <p><input type="checkbox"/> Aneurysm, Ventricular, Right (including pseudoaneurysm)</p> <p><u>Mitral Valve Disease</u></p> <p><input type="checkbox"/> Mitral stenosis (Annular Hypoplasia)</p> <p><input type="checkbox"/> Mitral stenosis, Subvalvar</p> <p><input type="checkbox"/> Mitral stenosis, Subvalvar, Parachute</p> <p><input type="checkbox"/> Mitral stenosis, Supravalvar mitral ring</p> <p><input type="checkbox"/> Mitral stenosis, Valvar</p> <p><input type="checkbox"/> Mitral regurgitation</p> <p><input type="checkbox"/> Mitral regurgitation and mitral stenosis</p> <p><input type="checkbox"/> Mitral valve (MV), Other</p> <p><u>Partial anomalous pulmonary venous connection</u></p> <p><input type="checkbox"/> Partial anomalous pulmonary venous connection (PAPVC)</p> <p><input type="checkbox"/> Partial anomalous pulmonary venous connection (PAPVC), scimitar</p> <p><u>Patent ductus arteriosus</u></p> <p><input type="checkbox"/> Patent ductus arteriosus (PDA)</p> <p><u>Pericardial Disease</u></p> |
|--|--|

<p><b>ASD</b></p> <p><input type="checkbox"/> Patent oval foramen (patent foramen ovale) (PFO)</p> <p><input type="checkbox"/> Atrial Septal Defect (ASD), Secundum</p> <p><input type="checkbox"/> Atrial Septal Defect (ASD), Venosus</p> <p><input type="checkbox"/> Atrial Septal Defect (ASD), Coronary Sinus</p> <p><input type="checkbox"/> Atrial Septal Defect (ASD), Common Atrium (single Atrium)</p> <p><b>AV Canal</b></p> <p><input type="checkbox"/> Atrioventricular (AV) Canal Defect, Intermediate (transitional)</p> <p><input type="checkbox"/> Atrioventricular (AV) Canal Defect, Partial (incomplete) (PAVSD) (ASD, primum)</p> <p><input type="checkbox"/> Complete Atrioventricular (AV) Canal Defect</p> <p><b>Cardiomyopathy</b></p> <p><input type="checkbox"/> Cardiomyopathy (including dilated, restrictive, and hypertrophic)</p> <p><input type="checkbox"/> Cardiomyopathy, End-stage congenital heart disease</p> <p><b>Coarctation of Aorta and Aortic arch hypoplasia</b></p> <p><input type="checkbox"/> Coarctation of aorta</p> <p><input type="checkbox"/> Aortic arch hypoplasia</p> <p><input type="checkbox"/> Ventricular Septal Defect (VSD) + Aortic arch hypoplasia</p> <p><input type="checkbox"/> Ventricular Septal Defect (VSD) + Coarctation of aorta</p> <p><b>Conduit Failure</b></p> <p><input type="checkbox"/> Conduit Failure</p> <p><b>Congenitally Corrected TGA</b></p> <p><input type="checkbox"/> Congenitally corrected Transposition of the Great Arteries (TGA), Intact Ventricular Septum (IVS)</p> <p><input type="checkbox"/> Congenitally corrected Transposition of the Great Arteries (TGA)</p> <p><input type="checkbox"/> Congenitally Corrected TGA Congenitally corrected Transposition of the Great Arteries (TGA), Intact Ventricular Septum (IVS)-Left Ventricular Outflow Tract (LVOT) Obstruction</p> <p><input type="checkbox"/> Congenitally Corrected TGA Congenitally corrected Transposition of the Great Arteries (TGA), Ventricular Septal Defect (VSD)</p> <p><input type="checkbox"/> Congenitally Corrected TGA Congenitally corrected Transposition of the Great Arteries (TGA), Ventricular Septal Defect (VSD)-Left Ventricular Outflow Tract (LVOT) Obstruction</p> <p><b>Cor triatriatum</b></p> <p><input type="checkbox"/> Cor triatriatum</p> <p><b>Coronary Artery Anomalies</b></p> <p><input type="checkbox"/> Coronary artery anomaly, Aneurysm</p> <p><input type="checkbox"/> Coronary artery anomaly, Anomalous aortic origin of coronary artery (AAOCA) (AAOCA)</p> <p><input type="checkbox"/> Coronary artery anomaly, Anomalous pulmonary origin (includes ALCAPA)</p> <p><input type="checkbox"/> Coronary artery anomaly, Fistula</p> <p><input type="checkbox"/> Coronary artery anomaly, Other</p> <p><b>DOLV</b></p> <p><input type="checkbox"/> Double Outlet Left Ventricle (DOLV)</p> <p><b>DORV</b></p> <p><input type="checkbox"/> Double Outlet Right Ventricle (DORV)</p> <p><input type="checkbox"/> Double Outlet Right Ventricle (DORV), Atrioventricular (AV) Septal Defect</p> <p><input type="checkbox"/> Double Outlet Right Ventricle (DORV), Intact Ventricular Septum (IVS)</p> <p><input type="checkbox"/> Double Outlet Right Ventricle (DORV), Remote VSD (Uncommitted)</p> <p><input type="checkbox"/> Double Outlet Right Ventricle (DORV), Tetralogy of Fallot (TOF) type</p> <p><input type="checkbox"/> Double Outlet Right Ventricle (DORV), Transposition of Great Arteries (TGA) Type</p>	<p><input type="checkbox"/> Pericardial Disease (Non Specific)</p> <p><b>Pulmonary atresia</b></p> <p><input type="checkbox"/> Pulmonary atresia</p> <p><input type="checkbox"/> Pulmonary atresia, Intact Ventricular Spetum</p> <p><input type="checkbox"/> Pulmonary atresia, VSD (Including TOF, PA)</p> <p><input type="checkbox"/> Pulmonary atresia, Ventricular Septal Defect (VSD) - Multiple aorto-pulmonary collateral artery</p> <p><input type="checkbox"/> Pulmonary atresia MAPCA(s) (major aortopulmonary collateral [s]) (without PA-VSD)</p> <p><b>Pulmonary Valve Disease</b></p> <p><input type="checkbox"/> Pulmonary insufficiency</p> <p><input type="checkbox"/> Pulmonary valve, Other</p> <p><input type="checkbox"/> Pulmonary insufficiency and pulmonary stenosis</p> <p><b>Pulmonary venous stenosis</b></p> <p><input type="checkbox"/> Pulmonary venous stenosis</p> <p><b>RVOT Obstruction and/or Pulmonary Stenosis</b></p> <p><input type="checkbox"/> Pulmonary stenosis, Valvar</p> <p><input type="checkbox"/> Pulmonary stenosis, Subvalvar</p> <p><input type="checkbox"/> Pulmonary artery stenosis (hypoplasia), Main (trunk) (Supravalvular Stenosis)</p> <p><input type="checkbox"/> Pulmonary artery stenosis, Branch, Central (within the hilar bifurcation)</p> <p><input type="checkbox"/> Pulmonary artery stenosis, Branch, Peripheral (at or beyond the hilar bifurcation)</p> <p><input type="checkbox"/> Pulmonary artery, Discontinuous</p> <p><input type="checkbox"/> Double Chamber Right Ventricle (DCRV)</p> <p><b>Shone's syndrome</b></p> <p><input type="checkbox"/> Shone's syndrome</p> <p><b>Shunt Failure</b></p> <p><input type="checkbox"/> Shunt Failure</p> <p><b>Single Ventricle</b></p> <p><input type="checkbox"/> Single ventricle, Double Inlet left ventricle (DILV)</p> <p><input type="checkbox"/> Single ventricle, Double Inlet Right Ventricle (DIRV)</p> <p><input type="checkbox"/> Single ventricle, Mitral atresia</p> <p><input type="checkbox"/> Single ventricle, Unbalanced Atrio-ventricular canal (AV Canal) Defect</p> <p><input type="checkbox"/> Single ventricle, Heterotaxia syndrome</p> <p><input type="checkbox"/> Single ventricle, Other</p> <p><input type="checkbox"/> Single ventricle + Total anomalous pulmonary venous connection (TAPVC)</p> <p><input type="checkbox"/> Single ventricle, Tricuspid atresia</p> <p><b>Sinus of Valsalva Fistula/Aneurysm</b></p> <p><input type="checkbox"/> Sinus of Valsalva aneurysm</p> <p><b>Systemic venous obstruction</b></p> <p><input type="checkbox"/> Systemic venous obstruction</p> <p><b>Tetralogy of Fallot</b></p> <p><input type="checkbox"/> Tetralogy of Fallot (TOF)</p> <p><input type="checkbox"/> Tetralogy of Fallot (TOF), Pulmonary stenosis</p> <p><input type="checkbox"/> Tetralogy of Fallot (TOF), complete Atrio-ventricular (AV) septal Defect</p> <p><input type="checkbox"/> Tetralogy of Fallot (TOF), Absent pulmonary valve</p> <p><b>Total anomalous pulmonary venous connection</b></p> <p><input type="checkbox"/> Total anomalous pulmonary venous connection (TAPVC), Type 1 (supracardiac)</p> <p><input type="checkbox"/> Total anomalous pulmonary venous connection (TAPVC), Type 2 (cardiac)</p>
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<p><b>Electrophysiological</b></p> <p><input type="checkbox"/> Arrhythmia</p> <p><input type="checkbox"/> Arrhythmia, atrial</p> <p><input type="checkbox"/> Arrhythmia, heart block</p> <p><input type="checkbox"/> Arrhythmia, ventricular</p> <p><b>Hypoplastic left heart syndrome</b></p> <p><input type="checkbox"/> Hypoplastic left heart syndrome (HLHS)</p> <p><b>Interrupted Arch</b></p> <p><input type="checkbox"/> Interrupted aortic arch (IAA)</p> <p><input type="checkbox"/> Interrupted aortic arch (IAA) + Aorto-Pulmonary window</p> <p><input type="checkbox"/> Interrupted aortic arch (IAA) + Ventricular Septal Defect (VSD)</p> <p><b>LV to Aorta Tunnel</b></p> <p><input type="checkbox"/> Left Ventricular to aorta tunnel</p> <p><b>Miscellaneous, Other</b></p> <p><input type="checkbox"/> Atrial Isomerism, Left</p> <p><input type="checkbox"/> Atrial Isomerism, Right</p> <p><input type="checkbox"/> Dextrocardia</p> <p><input type="checkbox"/> Levocardia</p> <p><input type="checkbox"/> Mesocardia</p> <p><input type="checkbox"/> Aneurysm, Pulmonary artery</p> <p><input type="checkbox"/> Prosthetic valve failure</p> <p><input type="checkbox"/> Cardiac tumor</p> <p><input type="checkbox"/> Pulmonary vascular obstructive disease (Eisenmenger's)</p> <p><input type="checkbox"/> Prosthetic valve Endocarditis</p> <p><input type="checkbox"/> Active Endocarditis</p> <p><input type="checkbox"/> Rheumatic Heart Disease</p> <p><input type="checkbox"/> Situs inversus</p> <p><input type="checkbox"/> Aneurysm, Other</p> <p><input type="checkbox"/> Aneurysm, Ventricular, Left (including pseudoaneurysm)</p>	<p><input type="checkbox"/> Total anomalous pulmonary venous connection (TAPVC), Type 3 (infracardiac)</p> <p><input type="checkbox"/> Total anomalous pulmonary venous connection (TAPVC), Type 4 (mixed)</p> <p><b>Transposition of the Great Arteries</b></p> <p><input type="checkbox"/> Transposition of the Great Arteries (TGA), Intact Ventricular Septum (IVS)-Left Ventricular Outflow Tract (LVOT) Obstruction</p> <p><input type="checkbox"/> Transposition of the Great Arteries (TGA), Ventricular Septal Defect (VSD)</p> <p><input type="checkbox"/> Transposition of the Great Arteries (TGA), Intact Ventricular Septum (IVS)</p> <p><input type="checkbox"/> Transposition of the Great Arteries (TGA), Ventricular Septal Defect (VSD)-Left Ventricular Outflow Tract (LVOT) Obstruction</p> <p><b>Tricuspid Valve Disease and Ebstein's Anomaly</b></p> <p><input type="checkbox"/> Ebstein's anomaly</p> <p><input type="checkbox"/> Tricuspid regurgitation, non-Ebstein's related</p> <p><input type="checkbox"/> Tricuspid regurgitation and tricuspid stenosis</p> <p><input type="checkbox"/> Tricuspid stenosis</p> <p><input type="checkbox"/> Tricuspid valve (TV), Other</p> <p><b>Truncus arteriosus</b></p> <p><input type="checkbox"/> Truncus arteriosus</p> <p><input type="checkbox"/> Truncus arteriosus + Interrupted aortic arch (IAA)</p> <p><input type="checkbox"/> Truncal valve insufficiency</p> <p><b>Vascular rings and Slings</b></p> <p><input type="checkbox"/> Vascular Ring</p> <p><input type="checkbox"/> Pulmonary Artery (PA) Sling</p> <p><b>VSD</b></p> <p><input type="checkbox"/> VSD Ventricular Septal Defect (VSD), Type 1 (Subarterial) (Supracristal) (Conal septal defect) (Infundibular)</p> <p><input type="checkbox"/> VSD Ventricular Septal Defect (VSD), Type 2 (Perimembranous) (Paramembranous) (Conoventricular)</p> <p><input type="checkbox"/> VSD Ventricular Septal Defect (VSD), Type 3 (Inlet) (AV canal type)</p> <p><input type="checkbox"/> VSD Ventricular Septal Defect (VSD), Type 4 (Muscular)</p> <p><input type="checkbox"/> VSD Ventricular Septal Defect (VSD), Type: Gerbode type (LV-RA communication)</p> <p><input type="checkbox"/> VSD Ventricular Septal Defect (VSD), Multiple</p>
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**4a.i Aortic Arch Coarctation?**     Yes  
 No  
 Unknown

**4a.ii Aortic Arch Hypoplasia?**     Yes  
 No  
 Unknown

**4a.iii Aortic Valve Atresia?**     Yes  
 No  
 Unknown

**4a.iv Aortic Valve Stenosis?**     Yes  
 No  
 Unknown

4a.v Aortic Valve Hypoplasia?  Yes  
 No  
 Unknown

4a.vi Mitral Valve Atresia?  Yes  
 No  
 Unknown

4a.vii Mitral Valve Stenosis?  Yes  
 No  
 Unknown

4a.viii Mitral Valve Hypoplasia?  Yes  
 No  
 Unknown

4a.ix Ventricular Septal Defect?  Yes  
 No  
 Unknown

4a.x Left Ventricle Size?  Normal  
 Small  
 Unknown

5. Is this the patient's first congenital surgery?  Yes  
 No  
 Unknown

5a. How many prior congenital cardiac operations has the patient had?

5b. Specify previous congenital cardiac operations

0 option(s) selected

- |  |  |
|--|--|
| <input type="checkbox"/> Anomalous systemic venous connection repair | <input type="checkbox"/> Supravalvar mitral ring repair: resection                           |
| <input type="checkbox"/> Aortic Aneurysm repair                      | <input type="checkbox"/> Mitral Valve (MV) Repair (Left Atrioventricular Valve)              |
| <input type="checkbox"/> Aortic Dissection repair                    | <input type="checkbox"/> Mitral Valve Replacement (Left Atrioventricular Valve)              |
| <input type="checkbox"/> Aortic Root Replacement                     | <input type="checkbox"/> Mitral Valve (MV) Replacement, Mechanical                           |
| <input type="checkbox"/> Aortic Root Replacement, Bioprosthetic      | <input type="checkbox"/> Mitral Valve (MV) Replacement, Bioprosthetic                        |
|  | <input type="checkbox"/> Mitral Valve (MV) Replacement, Homograft                            |
|  | <input type="checkbox"/> Palliative Procedures   |
|  | <input type="checkbox"/> Shunt, Systemic to pulmonary, Modified Blalock-Taussig Shunt (MBTS) |

<input type="checkbox"/> Aortic Root Replacement, Mechanical	<input type="checkbox"/> Shunt, Systemic to pulmonary, Central (shunt from aorta)
<input type="checkbox"/> Aortic Root Replacement, Homograft	<input type="checkbox"/> Shunt, Systemic to pulmonary, Other
<input type="checkbox"/> Aortic Root Replacement, Valve sparing	<input type="checkbox"/> Pulmonary Artery banding (PAB)
<u>Aortic Valve Disease</u>	<input type="checkbox"/> Pulmonary Artery debanding
<input type="checkbox"/> Ross procedure	<input type="checkbox"/> Damus-Kaye-Stansel procedure (DKS) (creation of Aorto-pulmonary anastomosis without arch reconstruction)
<input type="checkbox"/> Konno procedure (with and without aortic valve replacement)	<input type="checkbox"/> Bidirectional cavopulmonary anastomosis (BDCPA) (bidirectional Glenn)
<input type="checkbox"/> Ross Konno Procedure	<input type="checkbox"/> Glenn (unidirectional cavopulmonary anastomosis) (unidirectional Glenn)
<input type="checkbox"/> Repair of Supraaortic Stenosis	<input type="checkbox"/> Bilateral bidirectional cavopulmonary anastomosis (BBDCPA) (bilateral bidirectional Glenn)
<input type="checkbox"/> Other aortic annular enlargement procedure	<input type="checkbox"/> Hemi-Fontan
<input type="checkbox"/> Aortic Valve Repair	<input type="checkbox"/> Hepatic vein to azygous vein connection, Direct or with Interposition Graft
<u>Aortic Valve Replacement</u>	<input type="checkbox"/> Kawashima operation (superior cavopulmonary connection in setting of interrupted IVC with azygous continuation)
<input type="checkbox"/> Aortic Valve Replacement (AVR), Mechanical	<input type="checkbox"/> Bidirectional cavopulmonary anastomosis (BDCPA) (bidirectional Glenn) Re-repair (within 90 days)
<input type="checkbox"/> Aortic Valve Replacement (AVR), Bioprosthesis	<u>Partial Anomalous Pulmonary Venous Connection</u>
<input type="checkbox"/> Aortic Valve Replacement (AVR), Homograft	<input type="checkbox"/> Partial Anomalous Pulmonary Venous Connection (PAPVC) repair
<u>AP Window</u>	<input type="checkbox"/> Partial Anomalous Pulmonary Venous Connection (PAPVC), Scimitar, Repair
<input type="checkbox"/> Aorto-pulmonary (AP) window repair	<input type="checkbox"/> PAPVC repair, Baffle redirection to left atrium with systemic vein translocation (Warden) (SVC sewn to right atrial appendage)
<input type="checkbox"/> Pulmonary artery origin from ascending aorta (hemitruncus) repair	<input type="checkbox"/> Partial Anomalous Pulmonary Venous Connection (PAPVC) Re-repair (within 90 days)
<u>ASD</u>	<u>Patent Ductus Arteriosus</u>
<input type="checkbox"/> Patent Foramen Ovale (PFO), Primary closure	<input type="checkbox"/> Patent Ductus Arteriosus (PDA) closure, Surgical
<input type="checkbox"/> Atrial Septal Defect (ASD) repair, Primary closure	<u>Pericardial Disease</u>
<input type="checkbox"/> Atrial Septal Defect (ASD) repair, Patch	<input type="checkbox"/> Pericardial drainage procedure
<input type="checkbox"/> Atrial Septal Defect (ASD) repair, Device	<input type="checkbox"/> Pericardiectomy
<input type="checkbox"/> Atrial Septal Defect (ASD) repair, Patch + Partial anomalous pulmonary venous connection repair	<input type="checkbox"/> Pericardial procedure, Other
<input type="checkbox"/> Atrial Septal Defect (ASD), Common atrium (single atrium), Septation	<u>Pulmonary Atresia/VSD</u>
<input type="checkbox"/> Atrial Septal Defect (ASD) creation/enlargement	<input type="checkbox"/> Pulmonary atresia - VSD (including TOF, PA) repair
<input type="checkbox"/> Atrial Septal Fenestration	<input type="checkbox"/> Pulmonary atresia - VSD – MAPCA repair, Complete single stage repair (1 stage that includes pulmonary unifocalization + VSD closure + RV to PA connection [with or without conduit])
<input type="checkbox"/> Atrial fenestration closure	<input type="checkbox"/> Pulmonary atresia - VSD – MAPCA repair, Status post prior complete unifocalization (includes VSD closure + RV to PA connection [with or without conduit])
<u>AV Canal</u>	<input type="checkbox"/> Pulmonary atresia - VSD – MAPCA repair, Status post prior incomplete unifocalization (includes completion of pulmonary unifocalization + VSD closure + RV to PA connection [with or without conduit])
<input type="checkbox"/> Atrioventricular (AV, AVSD) Septal Repair, Complete	<input type="checkbox"/> Unifocalization MAPCA(s), Bilateral pulmonary unifocalization
<input type="checkbox"/> Atrioventricular (AV, AVSD) Septal Repair , Intermediate (Transitional)	<input type="checkbox"/> Unifocalization MAPCA(s), Unilateral pulmonary unifocalization
<input type="checkbox"/> Atrioventricular (AV, AVSD) Septal Repair , Partial (Incomplete) (PAVSD)	<u>Pulmonary Valve Disease</u>
<input type="checkbox"/> Common atrioventricular (AV) valve Repair	<input type="checkbox"/> Pulmonary Valve (PV) Replacement, Mechanical
<input type="checkbox"/> Common atrioventricular (AV) valve Replacement	<input type="checkbox"/> Pulmonary Valve (PV) Replacement, Bioprosthesis
<input type="checkbox"/> Atrioventricular (AV, AVSD) Septal Defect Re-repair (within 90 days)	<input type="checkbox"/> Pulmonary Valve (PV) Replacement, Homograft
<u>Cardiomyopathy</u>	<input type="checkbox"/> Pulmonary Valve (PV) Repair
<input type="checkbox"/> Transplant, Heart	<u>Pulmonary venous stenosis</u>
<input type="checkbox"/> Transplant, Heart and lung	<input type="checkbox"/> Pulmonary venous stenosis repair
<u>Coarctation of Aorta and Aortic arch hypoplasia</u>	<u>Repair of Subaortic Stenosis</u>
<input type="checkbox"/> Coarctation repair, End to end	<input type="checkbox"/> Membrane Resection
<input type="checkbox"/> Coarctation repair, End to end, Extended	<input type="checkbox"/> Myomectomy
<input type="checkbox"/> Coarctation repair, Subclavian flap	<input type="checkbox"/> Extended Myomectomy
<input type="checkbox"/> Coarctation repair, Patch aortoplasty	<u>RVOT Obstruction, IVS Pulmonary Stenosis</u>
<input type="checkbox"/> Coarctation repair, Interposition graft	
<input type="checkbox"/> Coarctation repair, Other	
<input type="checkbox"/> Coarctation repair + Ventricular Septal Defect repair	
<input type="checkbox"/> Aortic arch repair	
<input type="checkbox"/> Aortic arch repair + Ventricular Septal Defect repair	
<input type="checkbox"/> Coarctation repair, Extra-anatomic Bypass	
<input type="checkbox"/> Coarctation Re-repair (within 90 days)	
<u>Conduit Operations</u>	
<input type="checkbox"/> Conduit placement, Right Ventricle (RV) to Pulmonary Artery (PA) (primary or reoperation)	

- Conduit placement, Left Ventricle (LV) to Pulmonary Artery (PA)
- Conduit placement, Ventricle to aorta

Congenitally Corrected TGA

- Congenitally corrected Transposition of the Great Arteries (TGA) repair, Atrial switch and ASO (double switch)
- Congenitally corrected Transposition of the Great Arteries (TGA) repair, Atrial switch and Rastelli
- Congenitally corrected Transposition of the Great Arteries (TGA) repair, VSD closure
- Congenitally corrected Transposition of the Great Arteries (TGA) repair, VSD closure and Left ventricular to Pulmonary Artery conduit
- Congenitally corrected Transposition of the Great Arteries (TGA) repair, Other

Cor triatriatum

- Cor triatriatum repair

Coronary Artery Anomalies

- Coronary artery fistula ligation
- Anomalous origin of coronary artery from pulmonary artery repair
- Coronary artery bypass (CABG)
- Anomalous aortic origin of coronary artery (AAOCA) repair
- Coronary artery procedure, Other

DOLV

- Double Outlet Left Ventricle repair (DOLV)

DORV

- Double Outlet Right Ventricle (DORV), Intraventricular tunnel repair

Electrophysiological

- Pacemaker implantation, Permanent
- ICD (AICD) implantation
- Arrhythmia surgery - atrial, Surgical Ablation
- Arrhythmia surgery - ventricular, Surgical Ablation

Hybrid

- Hybrid Approach "Stage 1", Application of RPA & LPA bands
- Hybrid Approach "Stage 1", Stent placement in arterial duct (PDA)
- Hybrid Approach "Stage 1", Stent placement in arterial duct (PDA) + application of RPA & LPA bands
- Hybrid approach "Stage 2", Aortopulmonary amalgamation + Superior Cavopulmonary anastomosis(es) + PA Debanding + Aortic arch repair (Norwood [Stage 1] + Superior Cavopulmonary anastomosis(es) + PA Debanding)
- Hybrid approach "Stage 2", Aortopulmonary amalgamation + Superior Cavopulmonary anastomosis(es) + PA Debanding + Without aortic arch repair Hybrid Approach, Transcardiac balloon dilatation
- Hybrid Approach, Transcardiac balloon dilatation
- Hybrid Approach, Transcardiac transcatheter device placement

Hypoplastic Left Heart and Related malformations

- Norwood procedure (w/mBT shunt)
- Norwood procedure (RV-PA Conduit)
- Conduit insertion right ventricle (RV) to pulmonary artery (PA) + Intraventricular tunnel left ventricle (LV) to neo-aorta + arch reconstruction (Rastelli and Norwood type arch reconstruction) (Yasui)
- Norwood procedure Re-repair (within 90 days)

Interrupted Arch

- Interrupted aortic arch repair

LV to Aorta Tunnel



- Right ventricular Outflow Tract (RVOT) procedure and/or Transannular patch

- 1 1/2 ventricular repair

- Pulmonary Artery (PA), reconstruction, Main
- Pulmonary Artery (PA), reconstruction, Central
- Pulmonary Artery (PA), reconstruction, Peripheral
- Double Chamber Right Ventricle (DCRV)

Single Ventricle

- Fontan Operation (Complete Cavo-pulmonary anastomosis), Extracardiac Type: Fenestrated
- Fontan Operation (Complete Cavo-pulmonary anastomosis), Extracardiac Type: Non-fenestrated
- Fontan Operation (Complete Cavo-pulmonary anastomosis), Lateral Tunnel Type
- Fontan Operation (Complete Cavo-pulmonary anastomosis), Extra/Intra Cardiac Type
- Fontan Operation (Complete Cavo-pulmonary anastomosis), Internal Conduit Type
- Fontan Operation (Complete Cavo-pulmonary anastomosis), Other
- Fontan revision or conversion (Re-do Fontan)
- Fontan, Other
- Ventricular septation
- Fontan Re-repair (within 90 days)

Sinus of Valsalva Aneurysm

- Sinus of Valsalva, Aneurysm repair

Systemic venous obstruction

- Systemic venous stenosis repair

Tetralogy of Fallot Repair

- Tetralogy of Fallot (TOF) repair
- Tetralogy of Fallot (TOF) repair, Ventriculotomy
- Tetralogy of Fallot (TOF) repair, Transannular patch
- Tetralogy of Fallot (TOF) repair, RV-PA conduit
- Tetralogy of Fallot (TOF) repair/Atrioventricular septal defect (AVSD) repair
- Tetralogy of Fallot (TOF) - Absent pulmonary valve (PV) repair
- Tetralogy of Fallot (TOF) repair, Pulmonary Artery (PA) Reconstruction
- Tetralogy of Fallot (TOF) repair, Valvotomy
- Tetralogy of Fallot (TOF) Re-repair (within 90 days)

Total Anomalous Pulmonary Venous Connection

- Total Anomalous Pulmonary Venous Connection (TAPVC) repair
- Total Anomalous Pulmonary Venous Connection (TAPVC) Re-repair (within 90 days)

Transposition of the Great Arteries

- Arterial switch operation (ASO)
- Arterial switch operation (ASO) and VSD repair
- Arterial switch procedure + Aortic arch repair
- Arterial switch procedure and VSD repair + Aortic arch repair
- Arterial switch operation (ASO) Re-repair (within 90 days)
- Senning
- Mustard
- Atrial baffle procedure, Mustard or Senning revision
- Rastelli
- Reparation A L Etage Ventriculaire (REV)
- Aortic root translocation over left ventricle (Including Nikaidoh procedure)
- Transposition of the Great Arteries (TGA), Other procedures (Kawashima, Left Ventricular to Pulmonary Artery conduit, other)



LV to aorta tunnel repair

Mechanical Support

- Extracorporeal membrane oxygenation (ECMO) Cannulation
- Extracorporeal membrane oxygenation (ECMO) Decannulation
- Right Heart Temporary Ventricular Assist Device (RVAD)
- Right Heart Long-Term Ventricular Assist Device (RVAD)
- Left Heart Temporary Ventricular Assist Device (LVAD)
- Left Heart Long-Term Ventricular Assist Device (LVAD)
- Total Artificial Heart (TAH)

Miscellaneous Procedures

- Aneurysm, Ventricular, Right, Repair
- Aneurysm, Ventricular, Left, Repair
- Aneurysm, Pulmonary artery (PA), Repair
- Cardiac tumor resection
- Pulmonary AV fistula repair/occlusion
- Ligation, Pulmonary artery (PA)
- Pulmonary embolectomy, Acute pulmonary embolus (PE)
- Pulmonary embolectomy, Chronic pulmonary embolus (PE)
- Procedures for Chylothorax

Mitral Valve Disease

Tricuspid Valve Disease and Ebstein's Anomaly

- Ebstein's repair
- Tricuspid Valve (TV) Replacement (Right Atrioventricular Valve)
- Tricuspid Valve (TV) Repair (Right Atrioventricular Valve)
- Ebstein's Re-repair (within 90 days)

Truncus Arteriosus

- Truncus arteriosus repair
- Truncal Valve Repair
- Truncal Valve Replacement
- Truncus + Interrupted aortic arch repair (IAA) repair
- Truncus arteriosus Re-repair (within 90 days)

Vascular Rings and Slings

- Vascular ring repair
- Aortopexy
- Pulmonary artery (PA) sling repair

VSD

- Ventricular Septal Defect (VSD) repair, Primary closure
- Ventricular Septal Defect (VSD) repair, Patch
- Ventricular Septal Defect (VSD) repair, Device
- Ventricular Septal Defect (VSD), Multiple, Repair
- Ventricular Septal Defect (VSD) creation/enlargement
- Ventricular septal patch fenestration
- Ventricular Septal Defect (VSD) Re-repair (within 90 days)

6.

**Preoperative risk factors**

0 option(s) selected

Select all that apply.

- Cardio-pulmonary resuscitation
- Preoperative complete AV block
- Preoperative/Preprocedural mechanical circulatory support (IABP,VAD, ECMO, or CPS)
- Shock, Persistent at time of surgery
- Shock, Resolved at time of surgery
- Diabetes mellitus
- Endocrine Abnormalities
- Hepatic dysfunction
- Necrotizing entero-colitis
- Failure to Thrive
- Malnutrition; as noted by the clinician in the History & Physical
- Greater than 2 hospital admissions for non-cardiac infections in last 3 months
- Previous History of Endocarditis
- Coagulation Disorder
- Neurological deficit
- Seizure
- Renal dysfunction
- Renal failure requiring dialysis
- Respiratory Failure not requiring ventilation
- Mechanical ventilation to treat cardiorespiratory failure
- Sepsis
- Pacemaker present
- Tracheostomy present
- None
- Other, Specify

**7. Weight at Time of Surgery**  Kilograms **Missing Reason:**  
Closest to time of surgery.  
 Clear  
 Unknown

**8. Height at Time of Surgery**  Centimeters **Missing Reason:**  
Closest to time of surgery.  
 Clear  
 Unknown

**9. Status at Operation**  
 Elective  
 Urgent  
 Emergent  
 Salvage

**10. Was patient on cardiopulmonary bypass during operation?**  
If more than one period of cardiopulmonary bypass (CPB) is required during surgery add the minutes of all CPB together during surgery and enter the total CPB time.  
 Yes  
 No  
 Unknown

**10a. Duration of Cardiopulmonary Bypass**  Minutes **Missing Reason:**  
 Clear  
 Unknown

**11. Cross Clamp Time**  Minutes **Missing Reason:**  
Duration of cardiac ischemia.  
If more than one period of cross clamp time is required during surgery add the minutes of all cross clamp time together during surgery and enter the total cross clamp time.  
 Clear  
 Not Done  
 Unknown

**12. Circulatory Arrest Time**  Minutes **Missing Reason:**  
If more than one period of circulatory arrest is required during surgery add the minutes of all circulatory arrest together during surgery and enter the total circulatory arrest time.  
 Clear  
 Not Done  
 Unknown

**13. Selective Cerebral Perfusion Time**  Minutes **Missing Reason:**  
Duration of time in which perfusion was maintained selectively to the brain while the remainder of the body was under circulatory arrest.  
 Clear  
 Not Done  
 Unknown

**14. Cardioplegia Type**  
Check only one.  
 Buckberg  
 Custodiol/Bretschneider (HTK)  
 Del Nido  
 Microplegia with Adenocaine  
 Microplegia with Potassium  
 Plegisol/St. Thomas  
 Roe's Solution  
 University of Wisconsin  
 Other, specify

None

**15. Was TEE used in the operation**  Yes  
TEE: Transesophageal ECHO  No  
 Unknown

**16. Was an epicardial echo done in this operation?**  Yes  
 No  
 Unknown

**17. Was sternum left open at the end of operation?**  Yes  
 No  
 Unknown

**18. Were there any complications during the operation?**  Yes  
If patient experienced complications diagnosed during the operation, specify the complication(s).  No  
 Unknown

**18a. Complications**  Arrhythmia requiring drug therapy  
Check all that apply.  Arrhythmia requiring electrical cardioversion or defibrillation  
All neurological complications including those diagnosed in the operating room will be reported on the Post Operative Events Form.  Arrhythmia requiring permanent pacemaker  
0 option(s) selected  Bleeding  
 Cardiac dysfunction resulting in low cardiac output  
 Cardiac failure (severe cardiac dysfunction)  
 Mechanical circulatory support (IABP, VAD, ECMO, or CPS)  
 Multi-System Organ Failure (MSOF) = Multi-Organ Dysfunction Syndrome (MODS)  
 Seizure  
 Unknown  
 Other, specify

**19. Intraoperative Mortality**  Yes  
 No