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)

Coartaction 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

- ☐ Anomalous systemic venous connection repair

Aortic Aneurysm

- ☐ Aortic aneurysm repair

Aortic Dissection

- ☐ Supravalvar mitral ring repair: resection
- ☐ Mitral Valve (MV) Repair (Left Atrioventricular Valve)

Mitral Valve Replacement (Left Atrioventricular Valve)

- ☐ Mitral Valve (MV) Replacement, Mechanical
- ☐ Mitral Valve (MV) Replacement, Bioprosthetic
- ☐ Mitral Valve (MV) Replacement, Homograft

- ☐ Aortic Dissection repair

Aortic Root Replacement

- ☐ Aortic Root Replacement, Bioprosthetic
- ☐ Aortic Root Replacement, Mechanical
- ☐ Aortic Root Replacement, Homograft
- ☐ Aortic Root Replacement, Valve sparing

Aortic Valve Disease

- ☐ Ross procedure
- ☐ Konno procedure (with and without aortic valve replacement)
- ☐ Ross Konno Procedure
- ☐ Repair of Supraaortic Stenosis
- ☐ Other aortic annular enlargement procedure
- ☐ Aortic Valve Repair

Aortic Valve Replacement

- ☐ Aortic Valve Replacement (AVR), Mechanical
- ☐ Aortic Valve Replacement (AVR), Bioprosthetic
- ☐ Aortic Valve Replacement (AVR), Homograft

AP Window

- ☐ Aorto-pulmonary (AP) window repair
- ☐ Pulmonary artery origin from ascending aorta (hemitruncus) repair

ASD

- ☐ Patent Foramen Ovale (PFO), Primary closure
- ☐ Atrial Septal Defect (ASD) repair, Partial closure
- ☐ Atrial Septal Defect (ASD) repair, Primary closure
- ☐ Atrial Septal Defect (ASD) repair, Patch
- ☐ Atrial Septal Defect (ASD) repair, Device
- ☐ Atrial Septal Defect (ASD) repair, Patch + Partial anomalous pulmonary venous connection repair
- ☐ Atrial Septal Defect (ASD), Common atrium (single atrium), Septation
- ☐ Atrial Septal Defect (ASD) creation/enlargement
- ☐ Atrial Septal Fenestration
- ☐ Atrial fenestration closure

AV Canal

- ☐ Atrioventricular (AV, AVSD) Septal Repair, Complete
- ☐ Atrioventricular (AV, AVSD) Septal Repair , Intermediate (Transitional)
- ☐ Atrioventricular (AV, AVSD) Septal Repair , Partial (Incomplete) (PAVSD)
- ☐ Common atrioventricular (AV) valve Repair
- ☐ Common atrioventricular (AV) valve Replacement
- ☐ Atrioventricular (AV, AVSD) Septal Defect Re-repair (within 90 days)

Cardiomyopathy

- ☐ Transplant, Heart
- ☐ Transplant, Heart and lung

Coartaction 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 + 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

Palliative Procedures

- ☐ Shunt, Systemic to pulmonary, Modified Blalock-Taussig Shunt (MBTS)
- ☐ Shunt, Systemic to pulmonary, Central (shunt from aorta)
- ☐ Shunt, Systemic to pulmonary, Other
- ☐ Pulmonary Artery banding (PAB)
- ☐ Pulmonary Artery debanding
- ☐ Damus-Kaye-Stansel procedure (DKS) (creation of Aorto-pulmonary anastomosis without arch reconstruction)
- ☐ Bidirectional cavopulmonary anastomosis (BDCPA) (bidirectional Glenn)
- ☐ Glenn (unidirectional cavopulmonary anastomosis) (unidirectional Glenn)
- ☐ Bilateral bidirectional cavopulmonary anastomosis (BBDCPA) (bilateral bidirectional Glenn)
- ☐ Hemi-Fontan
- ☐ Hepatic vein to azygous vein connection, Direct or with Interposition Graft
- ☐ Kawashima operation (superior cavopulmonary connection in setting of interrupted IVC with azygous continuation)
- ☐ Bidirectional cavopulmonary anastomosis (BDCPA) (bidirectional Glenn) Re-repair (within 90 days)

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)
- ☐ Partial Anomalous Pulmonary Venous Connection (PAPVC) Re-repair (within 90 days)

Patent Ductus Arteriosus

- ☐ Patent Ductus Arteriosus (PDA) closure, Surgical

Pericardial Disease

- ☐ Pericardial drainage procedure
- ☐ Pericardiectomy
- ☐ Pericardial procedure, Other

Pulmonary Atresia/VSD

- ☐ Pulmonary atresia - VSD (including TOF, PA) repair
- ☐ 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])
- ☐ Pulmonary atresia - VSD – MAPCA repair, Status post prior complete unifocalization (includes VSD closure + RV to PA connection [with or without conduit])
- ☐ 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])
- ☐ Unifocalization MAPCA(s), Bilateral pulmonary unifocalization
- ☐ Unifocalization MAPCA(s), Unilateral pulmonary unifocalization

Pulmonary Valve Disease

- ☐ Pulmonary Valve (PV) Replacement, Mechanical
- ☐ Pulmonary Valve (PV) Replacement, Bioprosthetic
- ☐ 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

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 neoaorta + 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

- ☐ 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)

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

- ☐ 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

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

AP Window

- ○ Aorto-pulmonary (AP) window (aortopulmonary window)
- ○ Pulmonary artery origin from ascending aorta (hemitruncus)

ASD

- ○ Patent oval foramen (patent foramen ovale) (PFO)
- ○ Atrial Septal Defect (ASD), Secundum
- ○ Atrial Septal Defect (ASD), Venosus
- ○ Atrial Septal Defect (ASD), Coronary Sinus
- ○ Atrial Septal Defect (ASD), Common Atrium (single Atrium)

AV Canal

- ○ Atrioventricular (AV) Canal Defect, Intermediate (transitional)
- ○ Atrioventricular (AV) Canal Defect, Partial (incomplete) (PAVSD) (ASD, primum)
- ○ Complete Atrioventricular (AV) Canal Defect

Cardiomyopathy

- ○ Cardiomyopathy (including dilated, restrictive, and hypertrophic)
- ○ Cardiomyopathy, End-stage congenital heart disease

Coarctation of Aorta and Aortic arch hypoplasia

- ○ Coarctation of aorta
- ○ Aortic arch hypoplasia
- ○ Ventricular Septal Defect (VSD) + Aortic arch hypoplasia
- ○ Ventricular Septal Defect (VSD) + Coarctation of aorta

Conduit Failure

- ○ Conduit Failure

Congenitally Corrected TGA

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)

Pericardial Disease

- ○ Pericardial Disease (Non Specific)

Pulmonary atresia

- ○ Pulmonary atresia
- ○ Pulmonary atresia, Intact Ventricular Spetum
- ○ Pulmonary atresia, VSD (Including TOF, PA)
- ○ Pulmonary atresia, Ventriuclar Septal Defect (VSD) - Multiple aorto-pulmonary collateral artery
- ○ Pulmonary atresia MAPCA(s) (major aortopulmonary collateral[s]) (without PA-VSD)

Pulmonary Valve Disease

- ○ Pulmonary insufficiency
- ○ Pulmonary valve, Other
- ○ Pulmonary insufficiency and pulmonary stenosis

Pulmonary venous stenosis

- ○ Pulmonary venous stenosis

RVOT Obstruction and/or Pulmonary Stenosis

- ○ Pulmonary stenosis, Valvar
- ○ Pulmonary stenosis, Subvalvar
- ○ Pulmonary artery stenosis (hypoplasia), Main (trunk) (Supravalvalar Stenosis)
- ○ Pulmonary artery stenosis, Branch, Central (within the hilar bifurcation)
- ○ Pulmonary artery stenosis, Branch, Peripheral (at or beyond the hilar bifurcation)
- ○ Pulmonary artery, Discontinuous
- ○ Double Chamber Right Ventricle (DCRV)

Shone's syndrome

- ○ Shone's syndrome

- ○ Congenitally corrected Transposition of the Great Arteries (TGA), Intact Ventricular Septum (IVS)
- ○ Congenitally corrected Transposition of the Great Arteries (TGA)
- ○ Congenitally Corrected TGA Congenitally corrected Transposition of the Great Arteries (TGA), Intact Ventricular Septum (IVS)-Left Ventricular Outflow Tract (LVOT) Obstruction
- ○ Congenitally Corrected TGA Congenitally corrected Transposition of the Great Arteries (TGA), Ventricular Septal Defect (VSD)
- ○ Congenitally Corrected TGA Congenitally corrected Transposition of the Great Arteries (TGA), Ventricular Septal Defect (VSD)-Left Ventricular Outflow Tract (LVOT) Obstruction

Cor triatriatum

- ○ Cor triatriatum

Coronary Artery Anomalies

- ○ Coronary artery anomaly, Aneurysm
- ○ Coronary artery anomaly, Anomalous aortic origin of coronary artery (AAOCA) (AAOCA)
- ○ Coronary artery anomaly, Anomalous pulmonary origin (includes ALCAPA)
- ○ Coronary artery anomaly, Fistula
- ○ Coronary artery anomaly, Other

DOLV

- ○ Double Outlet Left Ventricle (DOLV)

DORV

- ○ Double Outlet Right Ventricle (DORV)
- ○ Double Outlet Right Ventricle (DORV), Atrioventricular (AV) Septal Defect
- ○ Double Outlet Right Ventricle (DORV), Intact Ventricular Septum (IVS)
- ○ Double Outlet Right Ventricle (DORV), Remote VSD (Uncommitted)
- ○ Double Outlet Right Ventricle (DORV), Tetralogy of Fallot (TOF) type
- ○ Double Outlet Right Ventricle (DORV), Transposition of Great Arteries (TGA) Type

Electrophysiological

- ○ 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 tumor
- ○ Pulmonary vascular obstructive disease (Eisenmenger's)
- ○ Prosthetic valve Endocarditis
- ○ Situs inversus
- ○ Aneurysm, Other
- ○ Aneurysm, Ventricular, Left (including pseudoaneurysm)
- ○ Aneurysm, Ventricular, Right (including pseudoaneurysm)

Shunt Failure

- ○ Shunt Failure

Single Ventricle

- ○ Single ventricle, Double Inlet left ventricle (DILV)
- ○ Single ventricle, Double Inlet Right Ventricle (DIRV)
- ○ Single ventricle, Mitral atresia
- ○ Single ventricle, Unbalanced Atrio-ventricular canal (AV Canal) Defect
- ○ Single ventricle, Heterotaxia syndrome
- ○ Single ventricle, Other
- ○ Single ventricle + Total anomalous pulmonary venous connection (TAPVC)
- ○ Single ventricle, Tricuspid atresia

Sinus of Valsalva Fistula/Aneurysm

- ○ Sinus of Valsalva aneurysm

Systemic venous obstruction

- ○ Systemic venous obstruction

Tetralogy of Fallot

- ○ Tetralogy of Fallot (TOF)
- ○ Tetralogy of Fallot (TOF), Pulmonary stenosis
- ○ Tetralogy of Fallot (TOF), complete Atrio-ventricular (AV) septal Defect
- ○ Tetralogy of Fallot (TOF), Absent pulmonary valve

Total anomalous pulmonary venous connection

- ○ Total anomalous pulmonary venous connection (TAPVC), Type 1 (supracardiac)
- ○ Total anomalous pulmonary venous connection (TAPVC), Type 2 (cardiac)
- ○ Total anomalous pulmonary venous connection (TAPVC), Type 3 (infracardiac)
- ○ 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

Aortic Arch Coarctation? ○ Yes

3a.
- 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

- Anomalous Systemic Venous Connection
- Aneurysm, Ventricular, Right (including pseudoaneurysm)

- ☐ 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

AP Window
- ☐ Aorto-pulmonary (AP) window (aortopulmonary window)
- ☐ Pulmonary artery origin from ascending aorta (hemitruncus)

ASD
- ☐ Patent oval foramen (patent foramen ovale) (PFO)
- ☐ Atrial Septal Defect (ASD), Secundum
- ☐ Atrial Septal Defect (ASD), Venosus
- ☐ Atrial Septal Defect (ASD), Coronary Sinus
- ☐ Atrial Septal Defect (ASD), Common Atrium (single Atrium)

AV Canal
- ☐ Atrioventricular (AV) Canal Defect, Intermediate (transitional)
- ☐ Atrioventricular (AV) Canal Defect, Partial (incomplete) (PAVSD) (ASD, primum)
- ☐ Complete Atrioventricular (AV) Canal Defect

Cardiomyopathy
- ☐ Cardiomyopathy (including dilated, restrictive, and hypertrophic)
- ☐ Cardiomyopathy, End-stage congenital heart disease

Coarctation of Aorta and Aortic arch hypoplasia
- ☐ Coarctation of aorta
- ☐ Aortic arch hypoplasia
- ☐ Ventricular Septal Defect (VSD) + Aortic arch hypoplasia
- ☐ Ventricular Septal Defect (VSD) + Coarctation of aorta

Conduit Failure
- ☐ Conduit Failure

Congenitally Corrected TGA
- ☐ Congenitally corrected Transposition of the Great Arteries (TGA), Intact Ventricular Septum (IVS)
- ☐ Congenitally corrected Transposition of the Great Arteries (TGA)
- ☐ Congenitally Corrected TGA Congenitally corrected Transposition of the Great Arteries (TGA), Intact Ventricular Septum (IVS)-Left Ventricular Outflow Tract (LVOT) Obstruction
- ☐ Congenitally Corrected TGA Congenitally corrected Transposition of the Great Arteries (TGA), Ventricular Septal Defect (VSD)
- ☐ Congenitally Corrected TGA Congenitally corrected Transposition of the Great Arteries (TGA), Ventricular Septal Defect (VSD)-Left Ventricular Outflow Tract (LVOT) Obstruction

Cor triatriatum
- ☐ Cor triatriatum

Coronary Artery Anomalies
- ☐ Coronary artery anomaly, Aneurysm
- ☐ Coronary artery anomaly, Anomalous aortic origin of coronary artery (AAOCA) (AAOCA)
- ☐ Coronary artery anomaly, Anomalous pulmonary origin (includes ALCAPA)
- ☐ Coronary artery anomaly, Fistula
- ☐ Coronary artery anomaly, Other

DOLV
- ☐ Double Outlet Left Ventricle (DOLV)

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)

Pericardial Disease
- ☐ Pericardial Disease (Non Specific)

Pulmonary atresia
- ☐ Pulmonary atresia
- ☐ Pulmonary atresia, Intact Ventricular Spetum
- ☐ Pulmonary atresia, VSD (Including TOF, PA)
- ☐ Pulmonary atresia, Ventriuclar Septal Defect (VSD) - Multiple aorto-pulmonary collateral artery
- ☐ Pulmonary atresia MAPCA(s) (major aortopulmonary collateral[s]) (without PA-VSD)

Pulmonary Valve Disease
- ☐ Pulmonary insufficiency
- ☐ Pulmonary valve, Other
- ☐ Pulmonary insufficiency and pulmonary stenosis

Pulmonary venous stenosis
- ☐ Pulmonary venous stenosis

RVOT Obstruction and/or Pulmonary Stenosis
- ☐ Pulmonary stenosis, Valvar
- ☐ Pulmonary stenosis, Subvalvar
- ☐ Pulmonary artery stenosis (hypoplasia), Main (trunk) (Supravalvalar Stenosis)
- ☐ Pulmonary artery stenosis, Branch, Central (within the hilar bifurcation)
- ☐ Pulmonary artery stenosis, Branch, Peripheral (at or beyond the hilar bifurcation)
- ☐ Pulmonary artery, Discontinuous
- ☐ Double Chamber Right Ventricle (DCRV)

Shone's syndrome
- ☐ Shone's syndrome

Shunt Failure
- ☐ Shunt Failure

Single Ventricle
- ☐ Single ventricle, Double Inlet left ventricle (DILV)
- ☐ Single ventricle, Double Inlet Right Ventricle (DIRV)
- ☐ Single ventricle, Mitral atresia
- ☐ Single ventricle, Unbalanced Atrio-ventricular canal (AV Canal) Defect
- ☐ Single ventricle, Heterotaxia syndrome
- ☐ Single ventricle, Other
- ☐ Single ventricle + Total anomalous pulmonary venous connection (TAPVC)
- ☐ Single ventricle, Tricuspid atresia

Sinus of Valsalva Fistula/Aneurysm
- ☐ Sinus of Valsalva aneurysm

Systemic venous obstruction
- ☐ Systemic venous obstruction

Tetralogy of Fallot
- ☐ Tetralogy of Fallot (TOF)

DORV

- ☐ Double Outlet Right Ventricle (DORV)
- ☐ Double Outlet Right Ventricle (DORV), Atrioventricular (AV) Septal Defect
- ☐ Double Outlet Right Ventricle (DORV), Intact Ventricular Septum (IVS)
- ☐ Double Outlet Right Ventricle (DORV), Remote VSD (Uncommitted)
- ☐ Double Outlet Right Ventricle (DORV), Tetralogy of Fallot (TOF) type
- ☐ Double Outlet Right Ventricle (DORV), Transposition of Great Arteries (TGA) Type

Electrophysiological

- ☐ 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 tumor
- ☐ Pulmonary vascular obstructive disease (Eisenmenger's)
- ☐ Prosthetic valve Endocarditis
- ☐ Active Endocarditis
- ☐ Rheumatic Heart Disease
- ☐ Situs inversus
- ☐ Aneurysm, Other
- ☐ Aneurysm, Ventricular, Left (including pseudoaneurysm)
- ☐ Tetralogy of Fallot (TOF), Pulmonary stenosis
- ☐ Tetralogy of Fallot (TOF), complete Atrio-ventricular (AV) septal Defect
- ☐ Tetralogy of Fallot (TOF), Absent pulmonary valve

Total anomalous pulmonary venous connection

- ☐ Total anomalous pulmonary venous connection (TAPVC), Type 1 (supracardiac)
- ☐ Total anomalous pulmonary venous connection (TAPVC), Type 2 (cardiac)
- ☐ Total anomalous pulmonary venous connection (TAPVC), Type 3 (infracardiac)
- ☐ 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

4a.i **Aortic Arch Coarctation?** ○ Yes ○ No ○ Unknown

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

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

Aortic Valve Stenosis? ○ Yes

4a.iv
- 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

Anomalous systemic venous connection
- ☐ Anomalous systemic venous connection repair

Aortic Aneurysm
- ☐ Aortic aneurysm repair

Aortic Dissection
- ☐ Aortic Dissection repair

Aortic Root Replacement
- ☐ Aortic Root Replacement, Bioprosthetic
- ☐ Aortic Root Replacement, Mechanical
- ☐ Aortic Root Replacement, Homograft
- ☐ Aortic Root Replacement, Valve sparing
- ☐ Supravalvar mitral ring repair: resection
- ☐ Mitral Valve (MV) Repair (Left Atrioventricular Valve)

Mitral Valve Replacement (Left Atrioventricular Valve)
- ☐ Mitral Valve (MV) Replacement, Mechanical
- ☐ Mitral Valve (MV) Replacement, Bioprosthetic
- ☐ Mitral Valve (MV) Replacement, Homograft

Palliative Procedures
- ☐ Shunt, Systemic to pulmonary, Modified Blalock-Taussig Shunt (MBTS)
- ☐ Shunt, Systemic to pulmonary, Central (shunt from aorta)
- ☐ Shunt, Systemic to pulmonary, Other
- ☐ Pulmonary Artery banding (PAB)
- ☐ Pulmonary Artery debanding

Aortic Valve Disease

- ☐ Ross procedure
- ☐ Konno procedure (with and without aortic valve replacement)
- ☐ Ross Konno Procedure
- ☐ Repair of Supraaortic Stenosis
- ☐ Other aortic annular enlargement procedure
- ☐ Aortic Valve Repair

Aortic Valve Replacement

- ☐ Aortic Valve Replacement (AVR), Mechanical
- ☐ Aortic Valve Replacement (AVR), Bioprosthetic
- ☐ Aortic Valve Replacement (AVR), Homograft

AP Window

- ☐ Aorto-pulmonary (AP) window repair
- ☐ Pulmonary artery origin from ascending aorta (hemitruncus) repair

ASD

- ☐ Patent Foramen Ovale (PFO), Primary closure
- ☐ Atrial Septal Defect (ASD) repair, Primary closure
- ☐ Atrial Septal Defect (ASD) repair, Patch
- ☐ Atrial Septal Defect (ASD) repair, Device
- ☐ Atrial Septal Defect (ASD) repair, Patch + Partial anomalous pulmonary venous connection repair
- ☐ Atrial Septal Defect (ASD), Common atrium (single atrium), Septation
- ☐ Atrial Septal Defect (ASD) creation/enlargement
- ☐ Atrial Septal Fenestration
- ☐ Atrial fenestration closure

AV Canal

- ☐ Atrioventricular (AV, AVSD) Septal Repair, Complete
- ☐ Atrioventricular (AV, AVSD) Septal Repair , Intermediate (Transitional)
- ☐ Atrioventricular (AV, AVSD) Septal Repair , Partial (Incomplete) (PAVSD)
- ☐ Common atrioventricular (AV) valve Repair
- ☐ Common atrioventricular (AV) valve Replacement
- ☐ Atrioventricular (AV, AVSD) Septal Defect Re-repair (within 90 days)

Cardiomyopathy

- ☐ Transplant, Heart
- ☐ Transplant, Heart and lung

Coartaction 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 + 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
- ☐ Damus-Kaye-Stansel procedure (DKS) (creation of Aorto-pulmonary anastomosis without arch reconstruction)
- ☐ Bidirectional cavopulmonary anastomosis (BDCPA) (bidirectional Glenn)
- ☐ Glenn (unidirectional cavopulmonary anastomosis) (unidirectional Glenn)
- ☐ Bilateral bidirectional cavopulmonary anastomosis (BBDCPA) (bilateral bidirectional Glenn)
- ☐ Hemi-Fontan
- ☐ Hepatic vein to azygous vein connection, Direct or with Interposition Graft
- ☐ Kawashima operation (superior cavopulmonary connection in setting of interrupted IVC with azygous continuation)
- ☐ Bidirectional cavopulmonary anastomosis (BDCPA) (bidirectional Glenn) Re-repair (within 90 days)

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)
- ☐ Partial Anomalous Pulmonary Venous Connection (PAPVC) Re-repair (within 90 days)

Patent Ductus Arteriosus

- ☐ Patent Ductus Arteriosus (PDA) closure, Surgical

Pericardial Disease

- ☐ Pericardial drainage procedure
- ☐ Pericardiectomy
- ☐ Pericardial procedure, Other

Pulmonary Atresia/VSD

- ☐ Pulmonary atresia - VSD (including TOF, PA) repair
- ☐ 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])
- ☐ Pulmonary atresia - VSD – MAPCA repair, Status post prior complete unifocalization (includes VSD closure + RV to PA connection [with or without conduit])
- ☐ 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])
- ☐ Unifocalization MAPCA(s), Bilateral pulmonary unifocalization
- ☐ Unifocalization MAPCA(s), Unilateral pulmonary unifocalization

Pulmonary Valve Disease

- ☐ Pulmonary Valve (PV) Replacement, Mechanical
- ☐ Pulmonary Valve (PV) Replacement, Bioprosthetic
- ☐ 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

- ☐ 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 neoaorta + 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)
- ☐ 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)

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

☐ Procedures for Chylothorax

Mitral Valve Disease

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**
Select all that apply.
0 option(s) selected

- ☐ 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 Abnormalites
- ☐ Hepatic dysfunction
- ☐ Necrotizing entero-colitis
- ☐ Failure to Thrive
- ☐ 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

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

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

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: ○ Unknown
Clear

_____ Minutes ○ Not Done

11. **Cross Clamp Time**
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.

Missing Reason: Clear ○ Unknown

12. **Circulatory Arrest Time**
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.

[ ] Minutes

Missing Reason: Clear ○ Not Done ○ Unknown

13. **Selective Cerebral Perfusion Time**
Duration of time in which perfusion was maintained selectively to the brain while the remainder of the body was under circulatory arrest.

[ ] Minutes

Missing Reason: 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**
TEE: Transesophageal ECHO

- ○ Yes
- ○ 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?**
If patient experienced complications diagnosed during the operation, specify the complication(s).

- ○ Yes
- ○ No
- ○ Unknown

18a. **Complications**
Check all that apply.
All neurological complications including those diagnosed in the operating room will be reported on the Post Operative Events Form.
0 option(s) selected

- ☐ Arrhythmia requiring drug therapy
- ☐ Arrhythmia requiring electrical cardioversion or defibrillation
- ☐ Arrhythmia requiring permanent pacemaker
- ☐ 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