

Tier 1 Surgery Form

Local Surgery ID

LOCSRGID

Date of Surgery

DD/MM/YYYY

SurgeryDate

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)
- Norwood procedure
- 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

Surgery



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

AdditionalCardiacProcedures

2a. Additional Cardiac Procedures

0 option(s) selected

Click each item below to deselect.

<p>Anomalous systemic venous connection</p> <p><input type="checkbox"/> Anomalous systemic venous connection repair</p> <p>Aortic Aneurysm</p> <p><input type="checkbox"/> Aortic aneurysm repair</p> <p>Aortic Dissection</p> <p><input type="checkbox"/> Aortic Dissection repair</p> <p>Aortic Root Replacement</p> <p><input type="checkbox"/> Aortic Root Replacement, Bioprosthetic</p> <p><input type="checkbox"/> Aortic Root Replacement, Mechanical</p> <p><input type="checkbox"/> Aortic Root Replacement, Homograft</p> <p><input type="checkbox"/> Aortic Root Replacement, Valve sparing</p> <p>Aortic Valve Disease</p> <p><input type="checkbox"/> Ross procedure</p> <p><input type="checkbox"/> Konno procedure (with and without aortic valve replacement)</p> <p><input type="checkbox"/> Ross Konno Procedure</p> <p><input type="checkbox"/> Repair of Supraaortic Stenosis</p> <p><input type="checkbox"/> Other aortic annular enlargement procedure</p> <p><input type="checkbox"/> Aortic Valve Repair</p> <p>Aortic Valve Replacement</p> <p><input type="checkbox"/> Aortic Valve Replacement (AVR), Mechanical</p> <p><input type="checkbox"/> Aortic Valve Replacement (AVR), Bioprosthetic</p> <p><input type="checkbox"/> Aortic Valve Replacement (AVR), Homograft</p> <p><input type="checkbox"/> Aortic Valve Replacement</p> <p><input type="checkbox"/> Subvalvar Aortic Stenosis Repair</p> <p>AP Window</p> <p><input type="checkbox"/> Aorto-pulmonary (AP) window repair</p> <p><input type="checkbox"/> Pulmonary artery origin from ascending aorta (hemitruncus) repair</p> <p>ASD</p> <p><input type="checkbox"/> Patent Foramen Ovale (PFO), Primary closure</p> <p><input type="checkbox"/> Atrial Septal Defect (ASD) repair, Partial closure</p> <p><input type="checkbox"/> Atrial Septal Defect (ASD) repair, Primary closure</p> <p><input type="checkbox"/> Atrial Septal Defect (ASD) repair, Patch</p> <p><input type="checkbox"/> Diaphragm procedure, Other</p> <p><input type="checkbox"/> Atrial Septal Defect (ASD) repair, Device</p> <p><input type="checkbox"/> Atrial Septal Defect (ASD) repair, Patch + Partial anomalous pulmonary venous connection repair</p> <p><input type="checkbox"/> Atrial Septal Defect (ASD), Common atrium (single atrium), Septation</p> <p><input type="checkbox"/> Atrial Septal Defect (ASD) creation/enlargement</p> <p><input type="checkbox"/> Atrial Septal Fenestration</p> <p><input type="checkbox"/> Atrial fenestration closure</p> <p>AV Canal</p>	<p><input type="checkbox"/> Mitral Valve (MV) Repair (Left Atrioventricular Valve)</p> <p>Mitral Valve Replacement (Left Atrioventricular Valve)</p> <p><input type="checkbox"/> Mitral Valve (MV) Replacement, Mechanical</p> <p><input type="checkbox"/> Mitral Valve (MV) Replacement, Bioprosthetic</p> <p><input type="checkbox"/> Mitral Valve (MV) Replacement, Homograft</p> <p><input type="checkbox"/> Mitral valve Replacement</p> <p>Palliative Procedures</p> <p><input type="checkbox"/> Shunt, Ligation and Takedown</p> <p><input type="checkbox"/> Shunt, Systemic to pulmonary, Modified Blalock-Taussig Shunt (MBTS)</p> <p><input type="checkbox"/> Shunt, Systemic to pulmonary, Central (shunt from aorta)</p> <p><input type="checkbox"/> Shunt, Systemic to pulmonary, Other</p> <p><input type="checkbox"/> Pulmonary Artery banding (PAB)</p> <p><input type="checkbox"/> Pulmonary Artery debanding</p> <p><input type="checkbox"/> PA band adjustment</p> <p><input type="checkbox"/> Damus-Kaye-Stansel procedure (DKS) (creation of Aorto-pulmonary anastomosis without arch reconstruction)</p> <p><input type="checkbox"/> Bidirectional cavopulmonary anastomosis (BDCPA) (bidirectional Glenn)</p> <p><input type="checkbox"/> Glenn (unidirectional cavopulmonary anastomosis) (unidirectional Glenn)</p> <p><input type="checkbox"/> Bilateral bidirectional cavopulmonary anastomosis (BBDCPA) (bilateral bidirectional Glenn)</p> <p><input type="checkbox"/> Hemi-Fontan</p> <p><input type="checkbox"/> Hepatic vein to azygous vein connection, Direct or with Interposition Graft</p> <p><input type="checkbox"/> Kawashima operation (superior cavopulmonary connection in setting of interrupted IVC with azygous continuation)</p> <p><input type="checkbox"/> Bidirectional cavopulmonary anastomosis (BDCPA) (bidirectional Glenn) Re-repair (within 90 days)</p> <p>Partial Anomalous Pulmonary Venous Connection</p> <p><input type="checkbox"/> Takedown of superior cavopulmonary anastomosis</p> <p><input type="checkbox"/> Partial Anomalous Pulmonary Venous Connection (PAPVC) repair</p> <p><input type="checkbox"/> Partial Anomalous Pulmonary Venous Connection (PAPVC), Scimitar, Repair</p> <p><input type="checkbox"/> PAPVC repair, Baffle redirection to left atrium with systemic vein translocation (Warden) (SVC sewn to right atrial appendage)</p> <p><input type="checkbox"/> Partial Anomalous Pulmonary Venous Connection (PAPVC) Re-repair (within 90 days)</p> <p>Patent Ductus Arteriosus</p> <p><input type="checkbox"/> Patent Ductus Arteriosus (PDA) closure, device <small>ADDCARDPROC_205</small></p> <p><input type="checkbox"/> Patent Ductus Arteriosus (PDA) closure, Surgical</p> <p>Pericardial Disease</p> <p><input type="checkbox"/> Pectus Repair</p> <p><input type="checkbox"/> Pericardial drainage procedure</p>
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- 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, lung(s)
- 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
- Conduit reoperation

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

- 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])
- Occlusion of MAPCA(s)
- 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) Replacement, Other
- 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

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, Transcatheter balloon dilatation
- Hybrid Approach, Transcatheter balloon dilatation
- Hybrid Approach, Transcatheter 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
- Norwood procedure Re-repair (within 90 days)
- Hypoplastic Left Heart Syndrome (HLHS) Biventricular Repair

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)
- Right/Left Heart Assist Device
- VAD Implant/Exchange
- 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

- 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
- Pulmonary Artery Translocation
- 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)
- Tracheal 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
- Valve Excision
- Ventricular Septal Defect (VSD) repair, Patch
- Ventricular Septal Defect (VSD) repair, Device
- Ventricular Septal Defect (VSD), Multiple, Repair

Mitral Valve Disease

Supralvalvar mitral ring repair: resection

Ventricular Septal Defect (VSD) creation/enlargement

Ventricular septal patch fenestration

Ventricular Septal Defect (VSD) Re-repair (within 90 days)

AddCardProc

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, Supralvalvar

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)

Aneurysm, Ventricular, Right (including pseudoaneurysm)

Mitral Valve Disease

Mitral stenosis (Annular Hypoplasia)

Mitral stenosis, Subvalvar

Mitral stenosis, Subvalvar, Parachute

Mitral stenosis, Supralvalvar 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

Pectus Deformity

Pericardial Disease (Non Specific)

Pulmonary atresia

Pulmonary atresia

Pulmonary atresia, Intact Ventricular Septum

Pulmonary atresia, VSD (Including TOF, PA)

Pulmonary atresia, Ventricular Septal Defect (VSD) - Multiple aorto-pulmonary collateral artery

Pulmonary atresia MAPCA(s) (major aortopulmonary collateral[s]) (without PA-VSD)

Pulmonary Valve Disease

Pulmonary embolism

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) (Supralvalvar 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)

- 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)
 - Hypoplastic RV
- Interrupted Arch
-
- Interrupted aortic arch (IAA)
 - Interrupted aortic arch (IAA) + Aorto-Pulmonary window
 - Interrupted aortic arch (IAA) + Ventricular Septal Defect (VSD)
 - Kawasaki Disease
- 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)

- 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)
 - 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
-
- Truncal valve stenosis
 - Vascular Ring
 - Pulmonary Artery (PA) Sling
- VSD
-

- Prosthetic valve Endocarditis
- Active Endocarditis
- Rheumatic Heart Disease
- Situs inversus
- Aneurysm, Other
- Aneurysm, Ventricular, Left (including pseudoaneurysm)
- 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

PRIMDIAG

3a.

Aortic Arch Coarctation?

- Yes
- No
- Unknown

AorticArchCoarctation

3b.

Aortic Arch Hypoplasia?

- Yes
- No
- Unknown

AorticArchHypoplasia

3c.

Aortic Valve Atresia?

- Yes
- No
- Unknown

AVA

3d.

Aortic Valve Stenosis?

- Yes
- No
- Unknown

AVS

3e.

Aortic Valve Hypoplasia?

- Yes
- No
- Unknown

AVH

3f.

Mitral Valve Atresia?

- Yes
- No
- Unknown

MVA

3g.

Mitral Valve Stenosis?

- Yes
- No
- Unknown

MVS

3h.

Mitral Valve Hypoplasia?

- Yes
- No
- Unknown

MVH

3i.

Ventricular Septal Defect?

- Yes
- No
- Unknown

VSD

3j.

Left Ventricle Size?

- Normal
- Small
- Unknown

LeftVentricleSize

4.

Are there any additional Cardiac Diagnoses?

- Yes
- No
- Unknown

AdditionalSurgeriesParent

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

Click each item below to deselect.

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)

Aneurysm, Ventricular, Right (including pseudoaneurysm)

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

Pectus Deformity

Pericardial Disease (Non Specific)

Pulmonary atresia

Pulmonary atresia

Pulmonary atresia, Intact Ventricular Septum

Pulmonary atresia, VSD (Including TOF, PA)

Pulmonary atresia, Ventricular Septal Defect (VSD) - Multiple aorto-pulmonary collateral artery

Pulmonary atresia MAPCA(s) (major aortopulmonary collateral[s]) (without PA-VSD)

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)

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)

Pulmonary Valve Disease

Pulmonary embolism

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) (Supravalvular 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)

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

- Hypoplastic RV
- Interrupted Arch
- Interrupted aortic arch (IAA)
- Interrupted aortic arch (IAA) + Aorto-Pulmonary window
- Interrupted aortic arch (IAA) + Ventricular Septal Defect (VSD)
- Kawasaki Disease
- 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
- Active Endocarditis
- Rheumatic Heart Disease
- Situs inversus
- Aneurysm, Other
- Aneurysm, Ventricular, Left (including pseudoaneurysm)
- 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
- Truncal valve stenosis
- 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

ADDDIAG

4a.i

Aortic Arch Coarctation?

- Yes
- No
- Unknown

AorticArchCoarctation4a1

4a.ii

Aortic Arch Hypoplasia?

- Yes
- No
- Unknown

AorticArchCoarctation4a2

4a.iii

Aortic Valve Atresia?

- Yes
- No
- Unknown

AVA4a3

4a.iv

Aortic Valve Stenosis?

- Yes
- No
- Unknown

AVS4a4

4a.v

Aortic Valve Hypoplasia?

- Yes
- No
- Unknown

AVH4a5

4a.vi

Mitral Valve Atresia?

- Yes
- No
- Unknown

MVA4a6

4a.vii

Mitral Valve Stenosis?

- Yes
- No
- Unknown

MVS4a7

4a.viii

Mitral Valve Hypoplasia?

- Yes
- No
- Unknown

MVH4a8

4a.ix

Ventricular Septal Defect?

- Yes
- No
- Unknown

VSD4a9

4a.x

Left Ventricle Size?

- Normal
- Small
- Unknown

LeftVentricleSize4a10

5.

Preoperative risk factors

0 option(s) selected

Select all that apply.

- Asthma
- Bronchopulmonary dysplasia (BPD)
- Cardio-pulmonary resuscitation
PreoperativeRiskFactors_1
- Colostomy present
- Preoperative complete AV block
PreoperativeRiskFactors_2
- Preoperative/Preprocedural mechanical circulatory support (IABP, VAD, ECMO, or CPS)
PreoperativeRiskFactors_3
- ICD (AICD) ([automatic] implantable cardioverter defibrillator) present
- Shock, Persistent at time of surgery
PreoperativeRiskFactors_4
- Shock, Resolved at time of surgery
PreoperativeRiskFactors_5
- Diabetes mellitus, Insulin dependent
- Diabetes mellitus, Noninsulin dependent
- Diabetes mellitus
PreoperativeRiskFactors_6
- Dyslipidemia
- Endocrine Abnormalities
PreoperativeRiskFactors_7
- Hepatic dysfunction
PreoperativeRiskFactors_8
- Necrotizing entero-colitis
PreoperativeRiskFactors_9

- Failure to Thrive PreoperativeRiskFactors_23
- Malnutrition; as noted by the clinician in the History & Physical PreoperativeRiskFactors_25
- Greater than 2 hospital admissions for non-cardiac infections in last 3 months PreoperativeRiskFactors_24
- Previous History of Endocarditis PreoperativeRiskFactors_10
- Coagulation Disorder PreoperativeRiskFactors_11
- Neurological deficit PreoperativeRiskFactors_12
- Seizure PreoperativeRiskFactors_13
- Preoperative Steroid Medications
- Single lung
- Renal dysfunction PreoperativeRiskFactors_14
- Renal failure requiring dialysis PreoperativeRiskFactors_15
- Respiratory Failure not requiring ventilation PreoperativeRiskFactors_16
- Mechanical ventilation to treat cardiorespiratory failure PreoperativeRiskFactors_17
- Respiratory Syncytial Virus PreoperativeRiskFactors_18
- Sepsis PreoperativeRiskFactors_19
- Pacemaker present PreoperativeRiskFactors_20
- Tracheostomy present PreoperativeRiskFactors_20
- Tobacco use
- None PreoperativeRiskFactors_21
- Other, Specify PREOPERATIVERISKFACTORS_26

PreoperativeRiskFactors

6.

Weight at Time of Surgery

Closest to time of surgery.

Kilograms

Missing Reason:

[Clear](#)

Unknown

WEIGHT

7.

Height at Time of Surgery

Closest to time of surgery.

Centimeters

Missing Reason:

[Clear](#)

Unknown

HEIGHT

8.

Status at Operation

- Elective
- Urgent
- Emergent
- Salvage

ORSTATUS

9.

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

ORCBP

10a.

Duration of Cardiopulmonary Bypass

Minutes

Missing Reason:

[Clear](#)

Unknown

ORCBPM

10.

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.

Minutes

Missing Reason:

[Clear](#)

Not Done

Unknown

ORCCM

11.

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

ORCAM

12.

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

ORSCPM

13.

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

INSTCPBU

14.

Was TEE used in the operation

TEE: Transesophageal ECHO

- Yes
- No
- Unknown

ORTEE

15.

Was an epicardial echo done in this operation?

- Yes
- No
- Unknown

EpicardialEcho

16.

Was sternum left open at the end of operation?

- Yes
- No
- Unknown

17. Were there any complications during the operation?

If patient experienced complications diagnosed during the operation, specify the complication(s).

- Yes
- No
- Unknown

ORCOMP

17a.

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

ComplicationsShortlist

18.

Intraoperative Mortality

- Yes
- No

OPDEAD