

Not Started **Institutional Practice Details**

Print this Form

1. Date of Completion DD/MM/YYYY
 Indicate the day, month, and year the form is being completed.

2. Previous year's hospital case volume of congenital cardiac surgeries Less than or equal to 100 per year
 101-250 per year
 251-500 per year
 Greater than 500 per year
 Indicate the case volume of Tier 1 AND Tier 2 surgeries for the previous calendar year.
 (This is the total number of surgeries, not the number of patients.)

3. Active congenital heart surgeons active congenital heart surgeons
 Indicate the number of active congenital heart surgeons currently practicing at your hospital.

4. Cardioplegia Type Buckberg
 Custodiol/Bretschneider (HTK)
 Del Nido
 Microplegia with Adenocaine
 Microplegia with Potassium
 Plegisol/St. Thomas
 Roe's Solution
 University of Wisconsin
 Other, specify
 Check all cardioplegia types that your hospital uses. If there are multiple cardioplegia types that your hospital uses that are not options in the list provided, enter all of them in the "other, specify" box separating them by commas (.).
 0 option(s) selected

5. Geographic Region Served Local
 Regional
 National/International

6. Estimated Population Served
 Based on answer to the previous question.
 Missing Reason:
 Clear
 Unknown

7. Total number of institutions providing pediatric cardiac services in the region.
 Based on answer to question 5.
 Specify the total number including your institution. If your institution is the only institution providing pediatric cardiac services in the region, specify one.
 Missing Reason:
 Clear
 Unknown

8. Does your institution have an established pediatric cardiology practice? Yes
 No

9. **Number of pediatric cardiac
operating rooms at your institution**

10. **Does your institution have an
exclusive pediatric cardiac
intensive care unit?** Yes
 No

11. **Does your institution have a
pediatric cardiac intensivist?** Yes
 No

12. **Does your institution have an
ECMO program?** Yes
 No
ECMO (Extracorporeal Membrane Oxygenation)

13. **Does your institution have a
pediatric cardiac catheterization
laboratory?** Yes
 No

14. **Does your institution have an
electrophysiology service?** Yes
 No

Not Started **Add Surgery Form**

Print this Form

1. First Three Letters of Patient Last Name

If this information cannot be provided, select a unique patient identifier.

2. Gender

Female
 Male
 Unknown

3. Date of Birth DD/MM/YYYY

Indicate patient's birthdate.

Local Hospital Patient ID

5. Date of Surgery DD/MM/YYYY

This is the date the patient enters the operating room.
(Day/Month/Year)

6 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".

- | | |
|---|--|
| <p><u>Anomalous systemic venous connection</u></p> <p><input type="radio"/> Anomalous systemic venous connection repair</p> <p><u>Aortic Aneurysm</u></p> <p><input type="radio"/> Aortic aneurysm repair</p> <p><u>Aortic Dissection</u></p> <p><input type="radio"/> Aortic Dissection repair</p> <p><u>Aortic Root Replacement</u></p> <p><input type="radio"/> Aortic Root Replacement, Bioprosthetic
 <input type="radio"/> Aortic Root Replacement, Mechanical
 <input type="radio"/> Aortic Root Replacement, Homograft
 <input type="radio"/> Aortic Root Replacement, Valve sparing</p> <p><u>Aortic Valve Disease</u></p> <p><input type="radio"/> Ross procedure
 <input type="radio"/> Konno procedure (with and without aortic valve replacement)
 <input type="radio"/> Ross Konno Procedure
 <input type="radio"/> Repair of Supraaortic Stenosis
 <input type="radio"/> Other aortic annular enlargement procedure
 <input type="radio"/> Aortic Valve Repair</p> <p><u>Aortic Valve Replacement</u></p> <p><input type="radio"/> Aortic Valve Replacement (AVR), Mechanical
 <input type="radio"/> Aortic Valve Replacement (AVR), Bioprosthetic
 <input type="radio"/> Aortic Valve Replacement (AVR), Homograft</p> <p><u>AP Window</u></p> <p><input type="radio"/> Aorto-pulmonary (AP) window repair
 <input type="radio"/> Pulmonary artery origin from ascending aorta (hemitruncus) repair</p> | <p><input type="radio"/> Mitral Valve (MV) Repair (Left Atrioventricular Valve)</p> <p><u>Mitral Valve Replacement (Left Atrioventricular Valve)</u></p> <p><input type="radio"/> Mitral Valve (MV) Replacement, Mechanical
 <input type="radio"/> Mitral Valve (MV) Replacement, Bioprosthetic
 <input type="radio"/> Mitral Valve (MV) Replacement, Homograft</p> <p><u>Palliative Procedures</u></p> <p><input type="radio"/> Shunt, Ligation and Takedown
 <input type="radio"/> Shunt, Systemic to pulmonary, Modified Blalock-Taussig Shunt (MBTS)
 <input type="radio"/> Shunt, Systemic to pulmonary, Central (shunt from aorta)
 <input type="radio"/> Shunt, Systemic to pulmonary, Other
 <input type="radio"/> Pulmonary Artery banding (PAB)
 <input type="radio"/> Pulmonary Artery debanding
 <input type="radio"/> Damus-Kaye-Stansel procedure (DKS) (creation of Aorto-pulmonary anastomosis without arch reconstruction)
 <input type="radio"/> Bidirectional cavopulmonary anastomosis (BDCPA) (bidirectional Glenn)
 <input type="radio"/> Glenn (unidirectional cavopulmonary anastomosis) (unidirectional Glenn)
 <input type="radio"/> Bilateral bidirectional cavopulmonary anastomosis (BBDCPA) (bilateral bidirectional Glenn)
 <input type="radio"/> Hemi-Fontan
 <input type="radio"/> Hepatic vein to azygous vein connection, Direct or with Interposition Graft
 <input type="radio"/> Kawashima operation (superior cavopulmonary connection in setting of interrupted IVC with azygous continuation)
 <input type="radio"/> Bidirectional cavopulmonary anastomosis (BDCPA) (bidirectional Glenn) Re-repair (within 90 days)</p> <p><u>Partial Anomalous Pulmonary Venous Connection</u></p> <p><input type="radio"/> Partial Anomalous Pulmonary Venous Connection (PAPVC) repair</p> |
|---|--|

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, Partial closure
- 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

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 + 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

- 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, Device
- 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) 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)

DOLV	<input type="radio"/> Fontan, Other
<input type="radio"/> Double Outlet Left Ventricle repair (DOLV)	<input type="radio"/> Ventricular septation
DORV	<input type="radio"/> Fontan Re-repair (within 90 days)
<input type="radio"/> Double Outlet Right Ventricle (DORV), Intraventricular tunnel repair	Sinus of Valsalva Aneurysm
Electrophysiological	<input type="radio"/> Sinus of Valsalva, Aneurysm repair
<input type="radio"/> Pacemaker implantation, Permanent	Systemic venous obstruction
<input type="radio"/> ICD (AICD) implantation	<input type="radio"/> Systemic venous stenosis repair
<input type="radio"/> Arrhythmia surgery - atrial, Surgical Ablation	Tetralogy of Fallot Repair
<input type="radio"/> Arrhythmia surgery - ventricular, Surgical Ablation	<input type="radio"/> Tetralogy of Fallot (TOF) repair
Hybrid	<input type="radio"/> Tetralogy of Fallot (TOF) repair, Ventriculotomy
<input type="radio"/> Hybrid Approach "Stage 1", Application of RPA & LPA bands	<input type="radio"/> Tetralogy of Fallot (TOF) repair, Transannular patch
<input type="radio"/> Hybrid Approach "Stage 1", Stent placement in arterial duct (PDA)	<input type="radio"/> Tetralogy of Fallot (TOF) repair, RV-PA conduit
<input type="radio"/> Hybrid Approach "Stage 1", Stent placement in arterial duct (PDA) + application of RPA & LPA bands	<input type="radio"/> Tetralogy of Fallot (TOF) repair/Atrioventricular septal defect (AVSD) repair
<input type="radio"/> Hybrid approach "Stage 2", Aortopulmonary amalgamation + Superior Cavopulmonary anastomosis(es) + PA Debanding + Aortic arch repair (Norwood [Stage 1] + Superior Cavopulmonary anastomosis(es) + PA Debanding)	<input type="radio"/> Tetralogy of Fallot (TOF) - Absent pulmonary valve (PV) repair
<input type="radio"/> Hybrid approach "Stage 2", Aortopulmonary amalgamation + Superior Cavopulmonary anastomosis(es) + PA Debanding + Without aortic arch repair Hybrid Approach, Transcardiac balloon dilatation	<input type="radio"/> Tetralogy of Fallot (TOF) repair, Pulmonary Artery (PA) Reconstruction
<input type="radio"/> Hybrid Approach, Transcardiac balloon dilatation	<input type="radio"/> Tetralogy of Fallot (TOF) repair, Valvotomy
<input type="radio"/> Hybrid Approach, Transcardiac transcatheter device placement	<input type="radio"/> Tetralogy of Fallot (TOF) Re-repair (within 90 days)
Hypoplastic Left Heart and Related malformations	Total Anomalous Pulmonary Venous Connection
<input type="radio"/> Norwood procedure (w/mBT shunt)	<input type="radio"/> Total Anomalous Pulmonary Venous Connection (TAPVC) repair
<input type="radio"/> Norwood procedure (RV-PA Conduit)	<input type="radio"/> Total Anomalous Pulmonary Venous Connection (TAPVC) Re-repair (within 90 days)
<input type="radio"/> 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)	Transposition of the Great Arteries
<input type="radio"/> Norwood procedure Re-repair (within 90 days)	<input type="radio"/> Arterial switch operation (ASO)
<input type="radio"/> Hypoplastic Left Heart Syndrome (HLHS) Biventricular Repair	<input type="radio"/> Arterial switch operation (ASO) and VSD repair
Interrupted Arch	<input type="radio"/> Arterial switch procedure + Aortic arch repair
<input type="radio"/> Interrupted aortic arch repair	<input type="radio"/> Arterial switch procedure and VSD repair + Aortic arch repair
LV to Aorta Tunnel	<input type="radio"/> Arterial switch operation (ASO) Re-repair (within 90 days)
<input type="radio"/> LV to aorta tunnel repair	<input type="radio"/> Senning
Mechanical Support	<input type="radio"/> Mustard
<input type="radio"/> Extracorporeal membrane oxygenation (ECMO) Cannulation	<input type="radio"/> Atrial baffle procedure, Mustard or Senning revision
<input type="radio"/> Extracorporeal membrane oxygenation (ECMO) Decannulation	<input type="radio"/> Rastelli
<input type="radio"/> Right Heart Temporary Ventricular Assist Device (RVAD)	<input type="radio"/> Reparation A L Etage Ventriculaire (REV)
<input type="radio"/> Right Heart Long-Term Ventricular Assist Device (RVAD)	<input type="radio"/> Aortic root translocation over left ventricle (Including Nikaidoh procedure)
<input type="radio"/> Left Heart Temporary Ventricular Assist Device (LVAD)	<input type="radio"/> Transposition of the Great Arteries (TGA), Other procedures (Kawashima, Left Ventricular to Pulmonary Artery conduit, other)
<input type="radio"/> Left Heart Long-Term Ventricular Assist Device (LVAD)	Tricuspid Valve Disease and Ebstein's Anomaly
<input type="radio"/> Total Artificial Heart (TAH)	<input type="radio"/> Ebstein's repair
Miscellaneous Procedures	<input type="radio"/> Tricuspid Valve (TV) Replacement (Right Atrioventricular Valve)
<input type="radio"/> Aneurysm, Ventricular, Right, Repair	<input type="radio"/> Tricuspid Valve (TV) Repair (Right Atrioventricular Valve)
<input type="radio"/> Aneurysm, Ventricular, Left, Repair	<input type="radio"/> Ebstein's Re-repair (within 90 days)
<input type="radio"/> Aneurysm, Pulmonary artery (PA), Repair	Truncus Arteriosus
<input type="radio"/> Cardiac tumor resection	<input type="radio"/> Truncus arteriosus repair
<input type="radio"/> Pulmonary AV fistula repair/occlusion	<input type="radio"/> Truncal Valve Repair
<input type="radio"/> Ligation, Pulmonary artery (PA)	<input type="radio"/> Truncal Valve Replacement
<input type="radio"/> Pulmonary embolectomy, Acute pulmonary embolus (PE)	<input type="radio"/> Truncus + Interrupted aortic arch repair (IAA) repair
<input type="radio"/> Pulmonary embolectomy, Chronic pulmonary embolus (PE)	<input type="radio"/> Truncus arteriosus Re-repair (within 90 days)
<input type="radio"/> Procedures for Chylothorax	Vascular Rings and Slings
<input type="radio"/> Other, specify	<input type="radio"/> Vascular ring repair
Mitral Valve Disease	<input type="radio"/> Aortopexy
<input type="radio"/> Supravalvar mitral ring repair: resection	<input type="radio"/> Pulmonary artery (PA) sling repair
	VSD
	<input type="radio"/> Ventricular Septal Defect (VSD) repair, Primary closure
	<input type="radio"/> Ventricular Septal Defect (VSD) repair, Patch
	<input type="radio"/> Ventricular Septal Defect (VSD) repair, Device
	<input type="radio"/> 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)

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Not Started **Demographics Form**[Print this Form](#)**1. Birth Country**

- AFG (Afghanistan)
 LUX (Luxembourg)
- ALA (Åland Islands)
 MAC (China, Macao Special Administrative Region)
- ALB (Albania)
 MDG (Madagascar)
- DZA (Algeria)
 MWI (Malawi)
- ASM (American Samoa)
 MYS (Malaysia)
- AND (Andorra)
 MDV (Maldives)
- AGO (Angola)
 MLI (Mali)
- AIA (Anguilla)
 MLT (Malta)
- ATG (Antigua and Barbuda)
 MHL (Marshall Islands)
- ARG (Argentina)
 MTQ (Martinique)
- ARM (Armenia)
 MRT (Mauritania)
- ABW (Aruba)
 MUS (Mauritius)
- AUS (Australia)
 MYT (Mayotte)
- AUT (Austria)
 MEX (Mexico)
- AZE (Azerbaijan)
 FSM (Micronesia, Federated States of)
- BHS (Bahamas)
 MCO (Monaco)
- BHR (Bahrain)
 MNG (Mongolia)
- BGD (Bangladesh)
 MNE (Montenegro)
- BRB (Barbados)
 MSR (Montserrat)
- BLR (Belarus)
 MAR (Morocco)
- BEL (Belgium)
 MOZ (Mozambique)
- BLZ (Belize)
 MMR (Myanmar)
- BEN (Benin)
 NAM (Namibia)
- BMU (Bermuda)
 NRU (Nauru)
- BTN (Bhutan)
 NPL (Nepal)
- BOL (Bolivia, Plurinational State of)
 NLD (Netherlands)
- BES (Bonaire, Saint Eustatius and Saba)
 NCL (New Caledonia)
- BIH (Bosnia and Herzegovina)
 NZL (New Zealand)
- BWA (Botswana)
 NIC (Nicaragua)
- BRA (Brazil)
 NER (Niger)
- VGB (British Virgin Islands)
 NGA (Nigeria)
- BRN (Brunei Darussalam)
 NIU (Niue)
- BGR (Bulgaria)
 NFK (Norfolk Island)
- BFA (Burkina Faso)
 MNP (Northern Mariana Islands)
- BDI (Burundi)
 NOR (Norway)
- KHM (Cambodia)
 PSE (Occupied Palestinian Territory)
- CMR (Cameroon)
 OMN (Oman)
- CAN (Canada)
 PAK (Pakistan)
- CPV (Cape Verde)
 PLW (Palau)
- CYM (Cayman Islands)
 PAN (Panama)
- CAF (Central African Republic)
 PNG (Papua New Guinea)
- TCD (Chad)
 PRY (Paraguay)
- CHL (Chile)
 PER (Peru)
- CHN (China)
 PHL (Philippines)
- COL (Colombia)
 PCN (Pitcairn)
- COM (Comoros)
 POL (Poland)
- COG (Congo)
 PRT (Portugal)
- COK (Cook Islands)
 PRI (Puerto Rico)
- CRI (Costa Rica)
 QAT (Qatar)
- CIV (Côte d'Ivoire)

- HRV (Croatia)
- CUB (Cuba)
- CUW (Curaçao)
- CYP (Cyprus)
- CZE (Czech Republic)
- PRK (Democratic People's Republic of Korea)
- COD (Democratic Republic of the Congo)
- DNK (Denmark)
- DJI (Djibouti)
- DMA (Dominica)
- DOM (Dominican Republic)
- ECU (Ecuador)
- EGY (Egypt)
- SLV (El Salvador)
- GNQ (Equatorial Guinea)
- ERI (Eritrea)
- EST (Estonia)
- ETH (Ethiopia)
- FRO (Faeroe Islands)
- FLK (Falkland Islands, Malvinas)
- FJI (Fiji)
- FIN (Finland)
- FRA (France)
- GUF (French Guiana)
- PYF (French Polynesia)
- GAB (Gabon)
- GMB (Gambia)
- GEO (Georgia)
- DEU (Germany)
- GHA (Ghana)
- GIB (Gibraltar)
- GRC (Greece)
- GRL (Greenland)
- GRD (Grenada)
- GLP (Guadeloupe)
- GUM (Guam)
- GTM (Guatemala)
- (GGY) Guernsey
- GIN (Guinea)
- GNB (Guinea-Bissau)
- GUY (Guyana)
- HTI (Haiti)
- VAT (Holy See)
- HND (Honduras)
- HKG (China, Hong Kong Special)
- HUN (Hungary)
- ISL (Iceland)
- IND (India)
- IDN (Indonesia)
- IRN (Iran, Islamic Republic of)
- IRQ (Iraq)
- IRL (Ireland)
- IMN (Isle of Man)
- ISR (Israel)
- ITA (Italy)
- JAM (Jamaica)
- JPN (Japan)
- JEY (Jersey)
- KOR (Republic of Korea)
- MDA (Republic of Moldova)
- REU (Réunion)
- ROU (Romania)
- RUS (Russian Federation)
- RWA (Rwanda)
- SHN (Saint Helena)
- KNA (Saint Kitts and Nevis)
- LCA (Saint Lucia)
- SPM (Saint Pierre and Miquelon)
- VCT (Saint Vincent and the Grenadines)
- BLM (Saint-Barthélemy)
- MAF (Saint-Martin, French Part)
- WSM (Samoa)
- SMR (San Marino)
- STP (Sao Tome and Principe)
- SAU (Saudi Arabia)
- SEN (Senegal)
- SRB (Serbia)
- SYC (Seychelles)
- SLE (Sierra Leone)
- SGP (Singapore)
- SXM (Sint Maarten, Dutch Part)
- SVK (Slovakia)
- SVN (Slovenia)
- SLB (Solomon Islands)
- SOM (Somalia)
- ZAF (South Africa)
- SSD (South Sudan)
- ESP (Spain)
- LKA (Sri Lanka)
- SDN (Sudan)
- SUR (Suriname)
- SJM (Svalbard and Jan Mayen Islands)
- SWZ (Swaziland)
- SWE (Sweden)
- CHE (Switzerland)
- SYR (Syrian Arab Republic)
- TJK (Tajikistan)
- THA (Thailand)
- MKD (The Former Yugoslav Republic of Macedonia)
- TLS (Timor-Leste)
- TGO (Togo)
- TKL (Tokelau)
- TON (Tonga)
- TTO (Trinidad and Tobago)
- TUN (Tunisia)
- TUR (Turkey)
- TKM (Turkmenistan)
- TCA (Turks and Caicos Islands)
- TUV (Tuvalu)
- UGA (Uganda)
- UKR (Ukraine)
- ARE (United Arab Emirates)
- GBR (United Kingdom of)
- TZA (United Republic of Tanzania)
- USA (United States of America)
- VIR (United States Virgin Islands)

- JOR (Jordan)
- KAZ (Kazakhstan)
- KEN (Kenya)
- KIR (Kiribati)
- KWT (Kuwait)
- KGZ (Kyrgyzstan)
- LAO (Lao, People's Democratic Republic)
- LVA (Latvia)
- LBN (Lebanon)
- LSO (Lesotho)
- LBR (Liberia)
- LBY (Libya)
- LIE (Liechtenstein)
- URY (Uruguay)
- UZB (Uzbekistan)
- VUT (Vanuatu)
- VEN (Venezuela, Bolivarian Republic of)
- VNM (Vietnam)
- WLF (Wallis and Futuna Islands)
- ESH (Western Sahara)
- YEM (Yemen)
- ZMB (Zambia)
- ZWE (Zimbabwe)
- OTH (Other, specify)
- Unknown

2. Premature Birth Yes
 Indicate whether the patient was born prematurely as defined by a gestational period of less than or equal to 37 weeks. No
 Unknown

3. Race African-American (Black)
 Alaska Indian
 American Indian
 Asian
 Caribbean
 Eskimo
 Hispanic/Latino
 Mixed race
 Pacific Islander
 White
 Other, specify

 Unknown

4. Did patient have any non-cardiac congenital anatomic abnormalities? Yes
 No
 Unknown

4a. Non-cardiac congenital anatomic abnormalities Major abnormality craniofacial
 Major abnormality of brain
 Major abnormality of spine and spinal cord
 Major abnormality of larynx - trachea - or bronchus
 Major abnormality of lung
 Major abnormality of abdominal wall
 Major abnormality of diaphragm
 Major abnormality of biliary system
 Major abnormality of gastrointestinal system
 Major abnormality of gastrointestinal system, Necrotizing enterocolitis
 Major abnormality of kidney - ureter - or bladder

0 option(s) selected

- 5. Was patient diagnosed with a chromosomal abnormality?**
- Yes
 No
 Unknown

5a. Chromosomal abnormality

Check all that apply.

0 option(s) selected

- | | |
|--|--------------------------------------|
| <input type="checkbox"/> 11p15.5 | <input type="checkbox"/> 5p |
| <input type="checkbox"/> 11q | <input type="checkbox"/> 6p12 |
| <input type="checkbox"/> 12p1.21 | <input type="checkbox"/> 7q11 |
| <input type="checkbox"/> 12p12.1 | <input type="checkbox"/> 7q11.23 |
| <input type="checkbox"/> 12q24 | <input type="checkbox"/> 7q32 |
| <input type="checkbox"/> 15q21.1 | <input type="checkbox"/> 7q34 |
| <input type="checkbox"/> 1q42.1 | <input type="checkbox"/> 8q12 |
| <input type="checkbox"/> 20p12 | <input type="checkbox"/> TGFBR1 or 2 |
| <input type="checkbox"/> 22q11deletion | <input type="checkbox"/> Trisomy 08 |
| <input type="checkbox"/> 2p21 | <input type="checkbox"/> Trisomy 09 |
| <input type="checkbox"/> 3p22 | <input type="checkbox"/> Trisomy 13 |
| <input type="checkbox"/> 45X0 | <input type="checkbox"/> Trisomy 18 |
| <input type="checkbox"/> 47,XXY | <input type="checkbox"/> Trisomy 21 |
| <input type="checkbox"/> 4p | <input type="checkbox"/> Other |
| <input type="checkbox"/> 4p16 | |

- 6. Was the patient diagnosed with a syndrome?**
- Yes
 No
 Unknown

6a. Syndromes

0 option(s) selected

- | | |
|---|--|
| <input type="checkbox"/> Alagille syndrome (intrahepatic biliary duct agenesis) | <input type="checkbox"/> Kartagener syndrome (Siewert syndrome) (Primary ciliary dyskinesia) |
| <input type="checkbox"/> Apert Syndrome | <input type="checkbox"/> Klinefelter syndrome (XXY Syndrome) |
| <input type="checkbox"/> Brugada syndrome | <input type="checkbox"/> LEOPARD syndrome |
| <input type="checkbox"/> Cardiofaciocutaneous Syndrome | <input type="checkbox"/> Loeys-Dietz syndrome |
| <input type="checkbox"/> Carpenter Syndrome | <input type="checkbox"/> Long QT syndrome |
| <input type="checkbox"/> Cat-eye Syndrome | <input type="checkbox"/> Marfan syndrome (15q21,1) |
| <input type="checkbox"/> CHARGE Association | <input type="checkbox"/> Mucopolysaccharidosis |
| <input type="checkbox"/> Cornelia de Lange syndrome | <input type="checkbox"/> Noonan syndrome |
| <input type="checkbox"/> Cri-du-chat syndrome | <input type="checkbox"/> Patau syndrome (Trisomy 13) |
| <input type="checkbox"/> Deletion 10 p syndrome | <input type="checkbox"/> Pierre Robin syndrome |
| <input type="checkbox"/> Deletion 8 p syndrome | <input type="checkbox"/> Prune Belly Syndrome |
| <input type="checkbox"/> DiGeorge syndrome (velocardiofacial syndrome) (conotruncal anomaly face syndrome) (22q11 deletion) | <input type="checkbox"/> Rethore Syndrome (Trisomy 9) |
| <input type="checkbox"/> Down syndrome (Trisomy 21) | <input type="checkbox"/> Fetal Rubella syndrome (Congenital rubella syndrome) |
| <input type="checkbox"/> Edwards syndrome (Trisomy 18) | <input type="checkbox"/> Rubinstein-Taybi Syndrome |
| <input type="checkbox"/> Ehlers- Danlos Syndrome | <input type="checkbox"/> Short QT Syndrome |
| <input type="checkbox"/> Ellis-van Creveld syndrome | <input type="checkbox"/> Sickle cell disease |
| <input type="checkbox"/> Fetal alcohol syndrome (FAS) | <input type="checkbox"/> Sickle cell trait |
| <input type="checkbox"/> Fetal drug exposure | <input type="checkbox"/> Smith-Lemli-Opitz syndrome |

- | | |
|--|--|
| <input type="checkbox"/> Goldenhar syndrome | <input type="checkbox"/> Turner syndrome (45XO) |
| <input type="checkbox"/> Heterotaxy syndrome | <input type="checkbox"/> VACTERL syndrome (VACTER/VATER/VATERR syndrome) |
| <input type="checkbox"/> Heterotaxy syndrome, Asplenia syndrome | <input type="checkbox"/> Von Willebrand disease (vWD) |
| <input type="checkbox"/> Heterotaxy syndrome, Polysplenia syndrome | <input type="checkbox"/> Williams syndrome (Williams-Beuren syndrome) (7q11/7q11.23) |
| <input type="checkbox"/> Holt-Oram syndrome | <input type="checkbox"/> Wolff-Parkinson-White syndrome (WPW syndrome) |
| <input type="checkbox"/> Jacobsen Syndrome | <input type="checkbox"/> Wolf-Hirschhorn syndrome |
| <input type="checkbox"/> Kabuki syndrome | <input type="checkbox"/> Other Syndrome |

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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 (BBD CPA) (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.

- | | |
|--|---|
| <ul style="list-style-type: none"> <li style="text-align: center;">Anomalous Systemic Venous Connection <hr/> <input type="radio"/> Systemic venous anomaly <hr/> <li style="text-align: center;">Aortic Aneurysm <hr/> <input type="radio"/> Aortic aneurysm (including pseudoaneurysm) <hr/> <li style="text-align: center;">Aortic dissection <hr/> <input type="radio"/> Aortic dissection <hr/> <li style="text-align: center;">Aortic Valve Disease <hr/> <input type="radio"/> Aortic stenosis, Subvalvar <input type="radio"/> Aortic stenosis, Valvar <input type="radio"/> Aortic stenosis, Supravalvar <input type="radio"/> Aortic valve atresia <input type="radio"/> Aortic insufficiency <input type="radio"/> Aortic insufficiency and aortic stenosis <input type="radio"/> Aortic valve, Other | <ul style="list-style-type: none"> <li style="text-align: center;">Mitral Valve Disease <hr/> <input type="radio"/> Mitral stenosis (Annular Hypoplasia) <input type="radio"/> Mitral stenosis, Subvalvar <input type="radio"/> Mitral stenosis, Subvalvar, Parachute <input type="radio"/> Mitral stenosis, Supravalvar mitral ring <input type="radio"/> Mitral stenosis, Valvar <input type="radio"/> Mitral regurgitation <input type="radio"/> Mitral regurgitation and mitral stenosis <input type="radio"/> Mitral valve (MV), Other <hr/> <li style="text-align: center;">Partial anomalous pulmonary venous connection <hr/> <input type="radio"/> Partial anomalous pulmonary venous connection (PAPVC) <input type="radio"/> Partial anomalous pulmonary venous connection (PAPVC), scimitar <hr/> <li style="text-align: center;">Patent ductus arteriosus <hr/> <input type="radio"/> Patent ductus arteriosus (PDA) |
|--|---|

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

- 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>ASD</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>AV Canal</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>Cardiomyopathy</p> <p><input type="checkbox"/> Cardiomyopathy (including dilated, restrictive, and hypertrophic)</p> <p><input type="checkbox"/> Cardiomyopathy, End-stage congenital heart disease</p> <p>Coarctation of Aorta and Aortic arch hypoplasia</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>Conduit Failure</p> <p><input type="checkbox"/> Conduit Failure</p> <p>Congenitally Corrected TGA</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>Cor triatriatum</p> <p><input type="checkbox"/> Cor triatriatum</p> <p>Coronary Artery Anomalies</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>DOLV</p> <p><input type="checkbox"/> Double Outlet Left Ventricle (DOLV)</p> <p>DORV</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>Pulmonary atresia</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>Pulmonary Valve Disease</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>Pulmonary venous stenosis</p> <p><input type="checkbox"/> Pulmonary venous stenosis</p> <p>RVOT Obstruction and/or Pulmonary Stenosis</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>Shone's syndrome</p> <p><input type="checkbox"/> Shone's syndrome</p> <p>Shunt Failure</p> <p><input type="checkbox"/> Shunt Failure</p> <p>Single Ventricle</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>Sinus of Valsalva Fistula/Aneurysm</p> <p><input type="checkbox"/> Sinus of Valsalva aneurysm</p> <p>Systemic venous obstruction</p> <p><input type="checkbox"/> Systemic venous obstruction</p> <p>Tetralogy of Fallot</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>Total anomalous pulmonary venous connection</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>Electrophysiological</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>Hypoplastic left heart syndrome</p> <p><input type="checkbox"/> Hypoplastic left heart syndrome (HLHS)</p> <p>Interrupted Arch</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>LV to Aorta Tunnel</p> <p><input type="checkbox"/> Left Ventricular to aorta tunnel</p> <p>Miscellaneous, Other</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>Transposition of the Great Arteries</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>Tricuspid Valve Disease and Ebstein's Anomaly</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>Truncus arteriosus</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>Vascular rings and Slings</p> <p><input type="checkbox"/> Vascular Ring</p> <p><input type="checkbox"/> Pulmonary Artery (PA) Sling</p> <p>VSD</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 |
| | 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. **Height at Time of Surgery** Centimeters
Closest to time of surgery. Missing Reason:
 Clear
 Unknown

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

9. **Status at Operation**

- Elective
- Urgent
- Emergent
- Salvage

10. **Was patient on cardiopulmonary bypass during operation?** Yes
 No
 Unknown
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.

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

11. **Cross Clamp Time** Minutes
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
 Not Done
 Unknown

12. **Circulatory Arrest Time** Minutes
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. Missing Reason:
 Clear
 Not Done
 Unknown

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

14. **Cardioplegia Type** Buckberg
Check only one. 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

Not Started **Tier 2 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".

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

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, Partial closure
 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

- Common atrioventricular (AV) valve Repair
 Common atrioventricular (AV) valve Replacement
 Atrioventricular (AV, AVSD) Septal Defect Re-repair (within 90 days)

Cardiomyopathy

- Transplant, Heart

- 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

- 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, Ligation and Takedown

- 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)

- 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 (PAPVC)

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

Patent Ductus Arteriosus

- Patent Ductus Arteriosus (PDA) closure, device

- 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])

Transplant, Heart and lung

Coarctation of Aorta and Aortic arch hypoplasia

- Coarctation repair + Ventricular Septal Defect repair
 Aortic arch repair
 Aortic arch repair + Ventricular Septal Defect repair
 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, Transcatheter balloon dilatation
 Hybrid Approach, Transcatheter balloon dilatation
 Hybrid Approach, Transcatheter device placement

Hypoplastic Left Heart and Related malformations

- 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)

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) 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 revision or conversion (Re-do Fontan)
 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/Atrioventricular septal defect (AVSD) repair
 Tetralogy of Fallot (TOF) - Absent pulmonary valve (PV) repair
 Tetralogy of Fallot (TOF) Re-repair (within 90 days)

Total Anomalous Pulmonary Venous Connection (TAPVC)

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

Transposition of the Great Arteries

- 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

- Tricuspid Valve (TV) Replacement (Right Atrioventricular Valve)

<p>Interrupted Arch</p> <p><input type="radio"/> Interrupted aortic arch repair</p> <p>LV to Aorta Tunnel</p> <p><input type="radio"/> LV to aorta tunnel repair</p> <p>Mechanical Support</p> <p><input type="radio"/> Extracorporeal membrane oxygenation (ECMO) Cannulation</p> <p><input type="radio"/> Extracorporeal membrane oxygenation (ECMO) Decannulation</p> <p><input type="radio"/> Right Heart Temporary Ventricular Assist Device (RVAD)</p> <p><input type="radio"/> Right Heart Long-Term Ventricular Assist Device (RVAD)</p> <p><input type="radio"/> Left Heart Temporary Ventricular Assist Device (LVAD)</p> <p><input type="radio"/> Left Heart Long-Term Ventricular Assist Device (LVAD)</p> <p><input type="radio"/> Total Artificial Heart (TAH)</p> <p>Miscellaneous Procedures</p> <p><input type="radio"/> Aneurysm, Ventricular, Right, Repair</p> <p><input type="radio"/> Aneurysm, Ventricular, Left, Repair</p> <p><input type="radio"/> Aneurysm, Pulmonary artery (PA), Repair</p> <p><input type="radio"/> Cardiac tumor resection</p>	<p><input type="radio"/> Tricuspid Valve (TV) Repair (Right Atrioventricular Valve)</p> <p><input type="radio"/> Ebstein's Re-repair (within 90 days)</p> <p>Truncus Arteriosus</p> <p><input type="radio"/> Truncal Valve Repair</p> <p><input type="radio"/> Truncal Valve Replacement</p> <p><input type="radio"/> Truncus + Interrupted aortic arch repair (IAA) repair</p> <p><input type="radio"/> Truncus arteriosus Re-repair (within 90 days)</p> <p>Vascular Rings and Slings</p> <p><input type="radio"/> Vascular ring repair</p> <p><input type="radio"/> Aortopexy</p> <p><input type="radio"/> Pulmonary artery (PA) sling repair</p> <p>VSD</p> <p><input type="radio"/> Ventricular septal patch fenestration</p> <p><input type="radio"/> Ventricular Septal Defect (VSD) Re-repair (within 90 days)</p>
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2. Were there any additional Cardiac Procedures during the same OR visit?

Yes

No

Unknown

2a. Additional Cardiac Procedures during the same OR visit
(Check all that apply)

0 option(s) selected

<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>AP Window</p> <p><input type="checkbox"/> Aorto-pulmonary (AP) window repair</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>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"/> 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>
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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, Partial closure
- 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

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 + 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

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, device
- 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) 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

<p>Coronary Artery Anomalies</p> <p><input type="checkbox"/> Coronary artery fistula ligation</p> <p><input type="checkbox"/> Anomalous origin of coronary artery from pulmonary artery repair</p> <p><input type="checkbox"/> Coronary artery bypass (CABG)</p> <p><input type="checkbox"/> Anomalous aortic origin of coronary artery (AAOCA) repair</p> <p><input type="checkbox"/> Coronary artery procedure, Other</p>	<p><input type="checkbox"/> Fontan Operation (Complete Cavo-pulmonary anastomosis), Internal Conduit Type</p> <p><input type="checkbox"/> Fontan Operation (Complete Cavo-pulmonary anastomosis), Other</p> <p><input type="checkbox"/> Fontan revision or conversion (Re-do Fontan)</p> <p><input type="checkbox"/> Fontan, Other</p> <p><input type="checkbox"/> Ventricular septation</p> <p><input type="checkbox"/> Fontan Re-repair (within 90 days)</p>
<p>DOLV</p> <p><input type="checkbox"/> Double Outlet Left Ventricle repair (DOLV)</p>	<p>Sinus of Valsalva Aneurysm</p> <p><input type="checkbox"/> Sinus of Valsalva, Aneurysm repair</p>
<p>DORV</p> <p><input type="checkbox"/> Double Outlet Right Ventricle (DORV), Intraventricular tunnel repair</p>	<p>Systemic venous obstruction</p> <p><input type="checkbox"/> Systemic venous stenosis repair</p>
<p>Electrophysiological</p> <p><input type="checkbox"/> Pacemaker implantation, Permanent</p> <p><input type="checkbox"/> ICD (AICD) implantation</p> <p><input type="checkbox"/> Arrhythmia surgery - atrial, Surgical Ablation</p> <p><input type="checkbox"/> Arrhythmia surgery - ventricular, Surgical Ablation</p>	<p>Tetralogy of Fallot Repair</p> <p><input type="checkbox"/> Tetralogy of Fallot (TOF) repair</p> <p><input type="checkbox"/> Tetralogy of Fallot (TOF) repair, Ventriculotomy</p> <p><input type="checkbox"/> Tetralogy of Fallot (TOF) repair, Transannular patch</p> <p><input type="checkbox"/> Tetralogy of Fallot (TOF) repair, RV-PA conduit</p> <p><input type="checkbox"/> Tetralogy of Fallot (TOF) repair/Atrioventricular septal defect (AVSD) repair</p> <p><input type="checkbox"/> Tetralogy of Fallot (TOF) - Absent pulmonary valve (PV) repair</p> <p><input type="checkbox"/> Tetralogy of Fallot (TOF) repair, Pulmonary Artery (PA) Reconstruction</p> <p><input type="checkbox"/> Tetralogy of Fallot (TOF) repair, Valvotomy</p> <p><input type="checkbox"/> Tetralogy of Fallot (TOF) Re-repair (within 90 days)</p>
<p>Hybrid</p> <p><input type="checkbox"/> Hybrid Approach "Stage 1", Application of RPA & LPA bands</p> <p><input type="checkbox"/> Hybrid Approach "Stage 1", Stent placement in arterial duct (PDA)</p> <p><input type="checkbox"/> Hybrid Approach "Stage 1", Stent placement in arterial duct (PDA) + application of RPA & LPA bands</p> <p><input type="checkbox"/> Hybrid approach "Stage 2", Aortopulmonary amalgamation + Superior Cavopulmonary anastomosis(es) + PA Debanding + Aortic arch repair (Norwood [Stage 1] + Superior Cavopulmonary anastomosis(es) + PA Debanding)</p> <p><input type="checkbox"/> Hybrid approach "Stage 2", Aortopulmonary amalgamation + Superior Cavopulmonary anastomosis(es) + PA Debanding + Without aortic arch repair Hybrid Approach, Transcardiac balloon dilatation</p> <p><input type="checkbox"/> Hybrid Approach, Transcardiac balloon dilatation</p> <p><input type="checkbox"/> Hybrid Approach, Transcardiac transcatheter device placement</p>	<p>Total Anomalous Pulmonary Venous Connection</p> <p><input type="checkbox"/> Total Anomalous Pulmonary Venous Connection (TAPVC) repair</p> <p><input type="checkbox"/> Total Anomalous Pulmonary Venous Connection (TAPVC) Re-repair (within 90 days)</p>
<p>Hypoplastic Left Heart and Related malformations</p> <p><input type="checkbox"/> Norwood procedure (w/mBT shunt)</p> <p><input type="checkbox"/> Norwood procedure (RV-PA Conduit)</p> <p><input type="checkbox"/> 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)</p> <p><input type="checkbox"/> Norwood procedure Re-repair (within 90 days)</p>	<p>Transposition of the Great Arteries</p> <p><input type="checkbox"/> Arterial switch operation (ASO)</p> <p><input type="checkbox"/> Arterial switch operation (ASO) and VSD repair</p> <p><input type="checkbox"/> Arterial switch procedure + Aortic arch repair</p> <p><input type="checkbox"/> Arterial switch procedure and VSD repair + Aortic arch repair</p> <p><input type="checkbox"/> Arterial switch operation (ASO) Re-repair (within 90 days)</p> <p><input type="checkbox"/> Senning</p> <p><input type="checkbox"/> Mustard</p> <p><input type="checkbox"/> Atrial baffle procedure, Mustard or Senning revision</p> <p><input type="checkbox"/> Rastelli</p> <p><input type="checkbox"/> Reparation A L Etage Ventriculaire (REV)</p> <p><input type="checkbox"/> Aortic root translocation over left ventricle (Including Nikaidoh procedure)</p> <p><input type="checkbox"/> Transposition of the Great Arteries (TGA), Other procedures (Kawashima, Left Ventricular to Pulmonary Artery conduit, other)</p>
<p>Interrupted Arch</p> <p><input type="checkbox"/> Interrupted aortic arch repair</p>	<p>Tricuspid Valve Disease and Ebstein's Anomaly</p> <p><input type="checkbox"/> Ebstein's repair</p> <p><input type="checkbox"/> Tricuspid Valve (TV) Replacement (Right Atrioventricular Valve)</p> <p><input type="checkbox"/> Tricuspid Valve (TV) Repair (Right Atrioventricular Valve)</p> <p><input type="checkbox"/> Ebstein's Re-repair (within 90 days)</p>
<p>LV to Aorta Tunnel</p> <p><input type="checkbox"/> LV to aorta tunnel repair</p>	<p>Truncus Arteriosus</p> <p><input type="checkbox"/> Truncus arteriosus repair</p> <p><input type="checkbox"/> Truncal Valve Repair</p> <p><input type="checkbox"/> Truncal Valve Replacement</p> <p><input type="checkbox"/> Truncus + Interrupted aortic arch repair (IAA) repair</p> <p><input type="checkbox"/> Truncus arteriosus Re-repair (within 90 days)</p>
<p>Mechanical Support</p> <p><input type="checkbox"/> Extracorporeal membrane oxygenation (ECMO) Cannulation</p> <p><input type="checkbox"/> Extracorporeal membrane oxygenation (ECMO) Decannulation</p> <p><input type="checkbox"/> Right Heart Temporary Ventricular Assist Device (RVAD)</p> <p><input type="checkbox"/> Right Heart Long-Term Ventricular Assist Device (RVAD)</p> <p><input type="checkbox"/> Left Heart Temporary Ventricular Assist Device (LVAD)</p> <p><input type="checkbox"/> Left Heart Long-Term Ventricular Assist Device (LVAD)</p> <p><input type="checkbox"/> Total Artificial Heart (TAH)</p>	<p>Vascular Rings and Slings</p> <p><input type="checkbox"/> Vascular ring repair</p> <p><input type="checkbox"/> Aortopexy</p>
<p>Miscellaneous Procedures</p> <p><input type="checkbox"/> Aneurysm, Ventricular, Right, Repair</p> <p><input type="checkbox"/> Aneurysm, Ventricular, Left, Repair</p> <p><input type="checkbox"/> Aneurysm, Pulmonary artery (PA), Repair</p> <p><input type="checkbox"/> Cardiac tumor resection</p> <p><input type="checkbox"/> Pulmonary AV fistula repair/occlusion</p> <p><input type="checkbox"/> Ligation, Pulmonary artery (PA)</p>	

- Pulmonary embolectomy, Acute pulmonary embolus (PE)
- Pulmonary embolectomy, Chronic pulmonary embolus (PE)
- Procedures for Chylothorax
- Other, specify

Mitral Valve Disease

- Supravalvar mitral ring repair: resection

- 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

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, Ventricular 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) (Supravalvar 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 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)

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

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

- 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)

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><u>ASD</u></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><u>AV Canal</u></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><u>Cardiomyopathy</u></p> <p><input type="checkbox"/> Cardiomyopathy (including dilated, restrictive, and hypertrophic)</p> <p><input type="checkbox"/> Cardiomyopathy, End-stage congenital heart disease</p> <p><u>Coarctation of Aorta and Aortic arch hypoplasia</u></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><u>Conduit Failure</u></p> <p><input type="checkbox"/> Conduit Failure</p> <p><u>Congenitally Corrected TGA</u></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"/> 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"/> Pericardial Disease (Non Specific)</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><u>Pulmonary atresia</u></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, Ventricuclar 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><u>Pulmonary Valve Disease</u></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><u>Pulmonary venous stenosis</u></p> <p><input type="checkbox"/> Pulmonary venous stenosis</p> <p><u>RVOT Obstruction and/or Pulmonary Stenosis</u></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) (Supravalvalar 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><u>Shone's syndrome</u></p> <p><input type="checkbox"/> Shone's syndrome</p>
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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

Active Endocarditis

Rheumatic Heart Disease

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)

- Situs inversus
 Aneurysm, Other
 Aneurysm, Ventricular, Left (including pseudoaneurysm)

- 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

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

Left Ventricle Size? Normal

4a.x

- Small
- Unknown

5.

Intraoperative Mortality

- Yes
- No

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Not Started **Post Operative Events Form**

Print this Form

1. Did the patient have a post-operative complication associated with this Tier 1 surgery? Yes No Unknown

All questions on this form are pertaining to events that happened post surgery and pre discharge. Any events that happen after discharge should be reported on the annual follow-up form.

1a. Specify complication(s) Check all that apply.

0 option(s) selected

- Arrhythmia requiring drug therapy
- Arrhythmia requiring electrical cardioversion or defibrillation
- Arrhythmia requiring permanent pacemaker
- Bleeding, requiring reoperation
- Cardiac dysfunction resulting in low cardiac output
- Cardiac failure (severe cardiac dysfunction)
- Chylothorax or pleural effusions requiring drainage
- Endocarditis-postprocedural infective endocarditis
- Intraventricular hemorrhage (IVH) > grade 2
- Mechanical circulatory support (IABP, VAD, ECMO, or CPS)
- Multi-System Organ Failure (MSOF) = Multi-Organ Dysfunction Syndrome (MODS)
- Neurological deficit diagnosed in the operating room, persisting at discharge or 91 days if patient is still in hospital.
- Neurological deficit diagnosed in the operating room, not present at discharge
- Neurological deficit that occurred after the operating room visit, persisting at discharge
- Neurological deficit that occurred after the operating room visit, not present at discharge
- Paralyzed diaphragm (possible phrenic nerve injury), requiring surgical plication
- Pericardial Effusion, requiring drainage
- Peripheral nerve injury persisting at discharge or 91 days if patient is still in hospital
- Peripheral nerve injury not present at discharge or 91 days if patient is still in hospital
- Pneumonia
- Postoperative/Postprocedural respiratory insufficiency requiring mechanical ventilatory support > 7 days
- Postoperative/Postprocedural respiratory insufficiency requiring reintubation
- Pulmonary vein obstruction
- Renal failure - acute renal failure, Acute renal failure requiring dialysis at the time of hospital discharge or 91 days if patient is still in hospital
- Renal failure - acute renal failure, Acute renal failure requiring temporary dialysis with the need for dialysis not present at hospital discharge or 91 days if patient is still in hospital
- Renal failure - acute renal failure, Acute renal failure requiring temporary hemofiltration with the need for dialysis not present at hospital discharge or 91 days if patient is still in hospital
- Respiratory failure, requiring tracheostomy
- Seizure
- Sepsis
- Spinal cord injury, Neurological deficit persisting at discharge
- Stroke: Ischemic
- Subdural Bleed
- Systemic vein obstruction
- Unplanned cardiac reoperation during the postoperative or postprocedural time period, exclusive of reoperation for bleeding
- Vocal cord dysfunction (possible recurrent laryngeal nerve injury)
- Wound dehiscence-Median Sternotomy
- Wound infection-Mediastinitis
- Wound infection-Superficial wound infection

2. Did the patient have a non-cardiac operation within this admission? Yes No Unknown
If more than one operation within this admission, enter each operation with its associated date.

2a.

Date of operation DD/MM/YYYY

Missing Reason: Unknown
Clear

2b.

- Specify non-cardiac operation**
- Mediastinal Exploration (Bleeding)
 - Pacemaker Placement
 - Pulmonary Embolectomy
 - Ligation of Thoracic Duct
 - Diaphragm Plication
 - Tracheostomy
 - Mediastinal Drainage
 - Wound debridement

-
- Post-operative mechanical circulatory support: (IABP, ECMO, VAD, CPS Cardiopulmonary Support)
- Requirement for Shunt Revision
- Unplanned Non-cardiac Reoperation, other, specify

2b.i Specify post-operative mechanical circulatory support

- CPS (Cardiopulmonary Support)
- ECMO (Extracorporeal Membrane Oxygenation)
- IABP (Intra-Aortic Balloon Pump)
- VAD (Ventricular Assist Device)

3. Did the patient have a catheter-based intervention within this admission?

If more than one intervention within this admission, enter each intervention with its associated date.

- Yes
- No
- Unknown

3a.

Date of Intervention

DD/MM/YYYY

Missing Reason: Unknown
Clear

3b. Specify Catheter-Based Intervention

- Aortic arch
- Arrhythmia ablation
- Coronary arteries
- Descending thoracic aorta/coarctation
- Intra-cardiac-atrial
- Intra-cardiac-ventricular
- Pulmonary arteries
- Pulmonary veins
- Shunt closure
- Shunt Thrombolysis
- Systemic veins
- Valvar
- Other, specify

4. Did the patient have another cardiac surgery within this admission?

If yes, a New Surgery Form should be added.

- Yes
- No

5.

Date of Patient Discharge

If patient died in hospital, date of death should be entered as the discharge date.

DD/MM/YYYY

Missing Reason:
Clear
 Still in hospital

6. Status at Discharge or at 90 days post-op if still in hospital

If patient status is dead, complete death form.

- Alive
- Dead

Not Started **Follow-Up Form**

Print this Form

- 1. Is the patient alive at one year post Tier 1 Surgery?**
- Yes
 - No
 - Unknown

All questions on this form are pertaining to events that occurred post discharge from the Tier 1 surgery listed above and prior to the date of follow-up. Any events that occurred prior to discharge should be reported on the post-operative events form.

- 2. Was the patient readmitted for a non-cardiac operation since completion of the last Post Operative Events Form?**
- Yes
 - No
 - Unknown

If more than one operation within this admission, enter each operation with its associated date.

2a. Date of Reoperation ... MM/YYYY

Missing Reason:
 Clear
 Unknown

- 2b. Specify non-cardiac reoperation**
- Mediastinal Exploration (Bleeding)
 - Pacemaker Placement
 - Pulmonary Embolectomy
 - Ligation of Thoracic Duct
 - Diaphragm Plication
 - Tracheostomy
 - Mediastinal Drainage
 - Wound debridement
 - Post-operative mechanical circulatory support: (IABP, ECMO, VAD, CPS Cardiopulmonary Support)
 - Requirement for Shunt Revision
 - Unplanned Non-cardiac Reoperation, other, specify

- 2b.i Specify post-operative mechanical circulatory support**
- CPS (Cardiopulmonary Support)
 - ECMO (Extracorporeal Membrane Oxygenation)
 - IABP (Intra-Aortic Balloon Pump)
 - VAD (Ventricular Assist Device)

- 3. Did the patient have a catheter-based intervention since the completion of last Post-Operative Events Form?**
- Yes
 - No
 - Unknown

If more than one intervention within this admission, enter each intervention with its associated date.

3a. Date of Intervention ... MM/YYYY

Missing Reason:
 Clear
 Unknown

3b.

Catheter-Based Intervention

- Aortic arch
- Arrhythmia ablation
- Coronary arteries
- Descending thoracic aorta/coarctation
- Intra-cardiac-atrial
- Intra-cardiac-ventricular
- Pulmonary arteries
- Pulmonary veins
- Shunt closure
- Shunt Thrombolysis
- Systemic veins
- Valvar
- Other, specify

4. Readmission for any pediatric or congenital heart surgery since completion of last Post-Operative Events Form?

- Yes
- No
- Unknown

If yes, New Surgery Form, and Post-Operative Events Form should be completed.

5.

NYHA Functional Class

- Class I
- Class II
- Class III
- Class IV
- Not Applicable, patient less than 2 years old
- Unknown

Not Started **Tier 2 Surgery Discharge Form**[Print this Form](#)

1. At the time of patient discharge (or at 90 days postop if patient is still in the hospital), is patient alive? Yes
 No

1a. Date of patient discharge DD/MM/YYYY

Missing Reason:

 Clear Still in hospital 91 days post surgery

1a. Date of patient death DD/MM/YYYY

Missing Reason:

 Clear

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Not Started **Death Form**

Print this Form

1. **Date of Death** DD/MM/YYYY
 This form should be completed at the time of death if the patient died within one year +60 days of any Tier 1 surgery.

2 Primary Cause of Death
 Enter only ONE primary cause of death. If unsure of the primary, check with your local surgeon.

- | | |
|---|---|
| <input type="radio"/> Accident | <input type="radio"/> Rejection |
| <input type="radio"/> Acute or chronic cardiac failure | <input type="radio"/> Renal failure |
| <input type="radio"/> Anoxic event | <input type="radio"/> Respiratory failure |
| <input type="radio"/> Bleeding | <input type="radio"/> Rhythm disturbance |
| <input type="radio"/> Non-cardiac bleeding | <input type="radio"/> Suicide |
| <input type="radio"/> Surgical bleeding (intra op or post op) | <input type="radio"/> Surgical site infection |
| <input type="radio"/> Coronary artery event | <input type="radio"/> Other major infection |
| <input type="radio"/> Gastrointestinal complications | <input type="radio"/> Sepsis |
| <input type="radio"/> Liver failure | <input type="radio"/> Systemic embolism |
| <input type="radio"/> Malignancy | <input type="radio"/> Inoperable Defect |
| <input type="radio"/> Mechanical circulatory support failure | <input type="radio"/> Other, specify |
| <input type="radio"/> Neurologic event | |
| <input type="radio"/> Pulmonary embolism | |

3. Autopsy Yes
 No
 Unknown

3a. Autopsy Findings

Missing Reason:
Clear
 Unknown

4. Special Circumstances

Missing Reason:
Clear
 No special circumstances
 Unknown