

CARDIAC SURGERY REPORT, PEDIATRICS
(Under age 18)
FORM DOH-2254p

INSTRUCTIONS AND DATA ELEMENT DEFINITIONS
JANUARY 2001

NEW YORK STATE DEPARTMENT OF HEALTH
BUREAU OF HOSPITAL AND PRIMARY CARE SERVICES
CARDIAC SERVICES PROGRAM
One University Place, Suite 209 South
Rensselaer, NY 12144-3455
PHONE: (518) 402-1016
FAX: (518) 402-6992

CARDIAC PROGRAM CONTACTS:

Donna Doran, Administrator, drd03@health.state.ny.us
Casey Roark, Cardiac Databases Coordinator, csr01@health.state.ny.us
Rhonda O'Brien, Database Manager, rjo01@health.state.ny.us

NEW YORK STATE DEPARTMENT OF HEALTH – CARDIAC SERVICES PROGRAM
2001 PEDIATRIC CARDIAC SURGERY REPORTING SYSTEM
REVISION HIGHLIGHTS AND CODING CLARIFICATION
January 2001

Procedural Information:

Prior Surgery this Admission: This should ONLY be checked as a “Yes” if there was another procedure performed during this same hospital admission. If “Yes” is checked, be sure to enter the date of the previous surgery. For example: Take a patient admitted on January 1, 2001 who has a procedure on January 3, 2001 and March 2, 2001 and is not discharged until June 1, 2001. For the January 3rd procedure a “No” would be checked, however the March 2nd procedure would have a “Yes” checked and a date of January 3, 2001 would be entered.

Procedure Codes:

The following procedure codes have been added to make the reporting of Pediatric Cardiac Surgery more complete:

- 103 Repair of Partial Anomalous Venous Return
- 122 Repair of Cor Triatriatum
- 290 Damus Kaye Stansel (DSK)
 - LV-PA Conduit
 - Valved
 - 326 Homograft
 - 327 Prosthetic
 - 328 Nonvalved
- 403 Stab Wound or Other Penetrating Wound to the heart or great vessels
- 420 Repair of Aortic Deceleration Injury

Do Not Code:

A Pediatric CSRS form is NOT required if the patient is less than 1500 grams and has had an isolated PDA Repair or has had a PDA repair at the bedside. However, if the PDA is done in conjunction with another procedure, it SHOULD be coded in addition to the other procedure.

Pre-Operative Status:

27. Balloon Atrial Septostomy: This is a new code that has been added in 2001.

2001 PEDIATRIC CARDIAC SURGERY REPORT INSTRUCTIONS

Complete a Pediatric Cardiac Surgery Report (form DOH-2254p) for every patient under age 18 at admission undergoing surgery **on the heart or great vessels**, with or without extra corporeal circulation. If more than one cardiac surgery occurred during a single hospital stay, **complete a separate form for each operation**. (Example: if a patient's treatment involves 3 separate OR visits for cardiac surgery, complete 3 pediatric cardiac surgery forms). Do not include implantations of pacemakers, AICD, or other procedures done in the catheterization lab.

ITEM- BY - ITEM INSTRUCTIONS

PFI Number: The PFI number is a permanent facility identifier assigned by the Department. Enter your facility's PFI number as shown in Attachment A.

Sequence Number: If your facility assigns a sequence number to each case on a chronological flow sheet or a similar log, enter the sequence number here. The sequence number is not required for the Pediatric Cardiac Surgery Reporting System, but has been included on the form in case your facility finds it useful in identifying and tracking cases.

Patient Information	
Child's name	Enter the child's first and last name
Medical Record Number	Enter the child's medical record number.
Child's Social Security Number	Enter the child's social security number. If the child does not have one enter 000-00-0000.
Date of Birth	Enter the patient's exact date of birth.
Sex	Check the appropriate box.
Ethnicity	Check the appropriate box, based on the perception of the staff treating the patient. Do not ask the patient.
Race	Check the appropriate box, based on the perception of the staff treating the patient. Do not ask the patient. For white Hispanics, check "white", for black Hispanics, check "black". "Other" refers to races other than white or black, such as Asian or American Indian.
Residence Code	Enter the county code of the patient's principal residence, as shown in attachment B. If code 99 (outside New York State), print the name of the state or country in the space provided.
Hospital Admission Date	Enter the admission date of the current hospital stay.

Procedural Information

Reminder - fill out a separate form for each surgery involving the heart or great vessels during a single hospital admission.

Date of Surgery	Enter the date on which the surgery was performed. (Remember to fill out a separate pediatric cardiac surgery form for cardiac surgery that occurred during the admission).
Surgeon Performing Surgery	Enter the name and license number of the primary physician who performed the cardiac procedure.
Surgical Priority	Check the appropriate box. Elective: All cases not classified as urgent or emergency as described below. Urgent: The patient is too ill or unstable to be discharged from the hospital, but is not classified as emergency as defined below. This includes patients with ductal dependent systemic or pulmonary circulation. Emergency: Patients requiring emergency procedures will have cardiac compromise or circulatory compromise of the cardiac organ. Typical patients include those with obstructed anomalous pulmonary venous return or ductal dependent systemic or pulmonary circulation in whom ductal patency cannot be maintained.
Prior Surgery this Admission	Check the appropriate box to indicate whether the patient had any cardiac operations prior to the present cardiac operation during this same admission, if 'Yes' the date MUST be entered.
Cardiac Diagnosis Code	List up to 5 diagnoses, if there are more list the 5 most significant. Enter the 3 digit State Cardiac Advisory Committee Code from the diagnosis code list in Attachment C - Primary Cardiac Diagnosis Codes.
Cardiac Procedure Code	List up to 4 procedure codes, if more were performed include the 4 most significant. Enter the 3 digit State Cardiac Advisory Committee code from the procedure code list in Attachment D - Congenital and Acquired Cardiac Procedure Codes. Note: Interval Procedures indicate a palliative procedure, temporizing procedure, or one step in a staged procedure. Codes for these procedures are included in Attachment D.
Cardioplegia	If cardioplegia was not used, check 'None'. If cardioplegia was used, check one box in each of the four sections (ie Cold, Warm or Intermittent, Continuous)
Mode of Cardiopulmonary Bypass	Check all that apply. If none apply leave blank.
Total Cross Clamp Time	Enter the total cross clamp time in minutes
Cardiopulmonary (CP) Bypass Time	Enter the cardiopulmonary (CP) bypass time in minutes.
Minimally Invasive Procedure	If surgical access was achieved through less than a complete sternotomy or thoracotomy check 'Yes', otherwise check 'No'.

Pre-Operative Status	
Pre-op Interventional Cath Procedure	Includes this admission only. Check the appropriate box and enter the date the procedure occurred. If more than one, enter the date of the most recent procedure. Examples of these procedures include but are not limited to coil embolization of collaterals, balloon valvuloplasty, balloon dilation of coarctation of the aorta, defect closure, pulmonary artery, systemic vein or pulmonary vein, with the exception of balloon atrial septostomy.
Weight at time of operation	Enter the patient's weight at the time of the operation. If less than 10 kilograms, report in grams, if 10 kilograms or more report in kilograms. Check the appropriate box for grams or kilograms.
Weight at birth	If the patient was under one year of age at admission, check the box with the appropriate birth weight category in grams. If the patient's age at admission was one year or more, this item may be left blank.
Check all of the following conditions that exist prior to surgery. If none exist, check 'None'.	
Previous Open Heart Operations 1. One 2. Two 3. Three or More	If the patient had open heart surgery previous to the current cardiac operation, check the appropriate box to indicate the number of operations (1, 2, 3 or more).
Previous Closed Heart Operations 4. One 5. Two 6. Three or More	If the patient had closed heart surgery previous to the current cardiac operation, check the appropriate box to indicate the number of operations (1, 2, 3 or more).
11. Severe cyanosis or severe hypoxia.	Pulse oximetry saturation <70% or resting PO ₂ <35mmHg or arterial saturation <75%
12. Dialysis within 14 days prior to surgery	Either continuous or intermittent.
13. Any ventilator dependence during same admission or within 14 days prior to surgery.	
14. Inotropic support immediately pre-op within 24 hrs.	Dopamine in dosage >5 mcg/kg/minute, or other agents such as Epinephrine or Isoprel in any dosage.
15. Positive blood cultures within 2 weeks of surgery.	
16. Arterial pH <7.25 pre-op.	
17. Significant Renal Dysfunction	Creatinine >1.5 mg/dl in a newborn, Creatinine ≥2 mg/dl for patients >1 month of age, and Creatinine ≥1 mg /dl for preemies.
18. Trisomy 21	
19. Major Extracardiac Anomalies	Examples include but are not limited to: Non-Down Syndrome chromosomal abnormalities, DiGeorge, Cystic Fibrosis, Marfan Syndrome, Sickle Cell Anemia, blood dyscrasia, omphalocele, hypoplastic lung, tracho-esophageal (TE) fistula, and diaphragmatic hernia
21. Pulmonary Hypertension	A systolic pressure > 50% systemic or elevated pulmonary vascular resistance.
22. Ventricular Assist - ECMO /IABP / LVAD/RVAD/BVAD	

Pre-Operative Status (continued)	
24. Pre-existing neurologic abnormality	Pre-existing neurological abnormality includes documented intracranial bleed, hydrocephalus, arterial venous malformation, cerebral vascular accident (CVA), seizure disorder, or others.
25. Pneumonia at time of surgery	As evidenced by: Chest x-ray with infiltrate <i>and ONE of the following:</i> *temperature greater than 38.5 °C *white blood count greater than 12,000 *positive blood/viral titer
26. Prostaglandin dependence at time of surgery	
27. Balloon Atrial Septostomy	

Post Procedural Events Requiring Intervention	
Check all of the listed Post Procedural Events which occurred following the surgery. If none of the listed Post Procedural Events occurred, check 'None'. Please Note: A documented Pre-operative Condition which persists post-operatively with no increase in severity is not a Post Procedural Event.	
1. Cardiac Tamponade	
2. Ventricular Fibrillation or CPR	
3. Bleeding requiring reoperation	
4 Deep sternal wound infection. (Bone related)	Drainage of purulent material from the sternotomy wound. * A sternal wound infection should be reported as a complication even if it does not become apparent until after the patient is discharged from the hospital. NOTE: This event is reportable up to one year post procedure.
6. Ventilator dependency for >10 days	Do Not report as a complication if patient was ventilator dependent prior to surgery.
7. Clinical sepsis with positive blood culture	Temperature over 101 °F (38.5 °C), increased WBC, and positive blood culture; OR temperature below 98.6 °F (37 °C), decreased WBC, and positive blood culture
11. Renal Failure requiring Dialysis (peritoneal or hemodialysis)	
12. Complete Heart Block at discharge	Complete Heart Block should be defined as lasting until the time of discharge with or without permanent pacemaker insertion before discharge.
13. Unplanned cardiac reoperation or interventional catheterization.	Includes any cardiac reoperation or interventional catheterization done in the OR, cath lab, or at the bedside.
15. New neurologic deficit	New neurologic deficit present at discharge
16. Ventricular Assist - ECMO / IABP/ LVAD /RVAD /BVAD	

Discharge Information

If the patient was discharged from the hospital alive, check the appropriate box to indicate specifically where he was discharged to.

If the patient died in the hospital, check the appropriate box to indicate specifically where the death occurred.

Status at **30 days Post-op**, indicate whether the patient is alive or dead, if alive check the appropriate box indicating where they are.

Discharge Date	Enter the date the patient was discharged from the hospital. If the patient died in the hospital, the hospital discharge date is the date of death.	
Discharged Alive to : 11. Home 12. Hospice 13. Acute Hospital 14. SNF 15. Inpatient Physical Medicine and Rehab 19. Other (specify)	Died in: 2. Operating room 3. Recovery Room 4. Critical Care Unit 5. Med/Surg Floor 6. In transit to Other Facility 8. Elsewhere in hospital (specify)	Status at 30 days Post-op : Alive at: 11. Home 12. Hospice 13. Acute Hospital 15. Inpatient Physical Medicine and Rehab 19. Other (Specify) 2. Dead 9. Unknown

PEDIATRIC CARDIAC SURGERY REPORT

ATTACHMENT A

PFI NUMBERS FOR CARDIAC DIAGNOSTIC AND SURGICAL CENTERS
--

PFI #	HOSPITAL
0001	Albany Medical Center Hospital
0116	Arnot-Ogden Medical Center
1438	Bellevue Hospital Center
1439	Beth Israel Medical Center/ Petric Campus
1164	Bronx-Lebanon Hospital Center, Fulton Division
1286	Brookdale Hospital Medical Center
1288	The Brooklyn Hospital Center, Downtown Campus
0207	Buffalo General Hospital – Kaleida Health
3013	Catholic Medical Center of Brooklyn & Queens Mary Immaculate Hospital
1634	Catholic Medical Center of Brooklyn & Queens – St. John’s Queens Hosp
0977	Cayuga Medical Center at Ithaca
0135	Champlain Valley Physicians Hospital Medical Center
0208	Children’s Hospital – Buffalo – Kaleida Health
1626	City Hospital Center at Elmhurst
1294	Coney Island Hospital
0636	Crouse Medical Center
0829	Ellis Hospital
0210	Erie County Medical Center
0407	Genesee Hospital – Rochester
1005	Glens Falls Hospital
0779	Good Samaritan Hospital of Suffern
0925	Good Samaritan Hospital Medical Center – West Islip
1445	Harlem Hospital Center
0913	Huntington Hospital
1300	Interfaith Medical Center, Jewish Hosp. Med. Ctr. of Brooklyn Division
1629	Jamaica Hospital
1450	Lenox Hill Hospital

PEDIATRIC CARDIAC SURGERY REPORT

PFI #	HOSPITAL <i>(continued)</i>
1302	Long Island College Hospital
1630	Long Island Jewish Medical Center - North Shore-LIJ Health System
1304	Lutheran Medical Center
1305	Maimonides Medical Center
0746	Mary Imogene Bassett Hospital
0213	Mercy Hospital – Buffalo
0215	Millard Fillmore Hospital – Kaleida Health
3058	Montefiore Med. Ctr., Jack D. Weiler Hosp. of A. Einstein College Division
1169	Montefiore Medical Center, Henry & Lucy Moses Division
1456	Mount Sinai Hospital
0528	Nassau County Medical Center
1458	New York Cornell Hospital – NY Presbyterian Medical Center
1637	The New York Hospital Medical Center of Queens (formerly Booth Memorial)
1306	The New York Methodist Hospital (formerly Methodist Hospital of Brooklyn)
1463	NYU Medical Center
0541	North Shore University Hospital - North Shore-LIJ Health System
0066	Olean General Hospital – Main
0471	Park Ridge Hospital
1464	Presbyterian Hospital - NY Presbyterian Medical Center
0411	Rochester General Hospital – Via Helath
0367	Samaritan Medical Center
0818	Saratoga Hospital
1072	Sound Shore Medical Center
0527	South Nassau Communities Hospital
0924	Southside Hospital
1176	St. Barnabus Hospital
0598	St. Elizabeth Hospital
0563	St. Francis Hospital – Roslyn
0870	St. James Mercy Hospital
0943	St. Catherine of Siena Medical Center (Formerly St. John's Episcopal Hospital)

PEDIATRIC CARDIAC SURGERY REPORT

PFI #	HOSPITAL <i>(continued)</i>
0630	St. Joseph's Hospital Health Center – Syracuse
0599	St. Luke's Memorial Hospital Center – New Hartford
1466	St. Luke's Roosevelt Hospital Center, Roosevelt Hospital Division
1469	St. Luke's Roosevelt Hospital, St. Luke's Hospital Division
0005	St. Peter's Hospital
0412	Park Ridge Hospital Genesse Street Campus (Formerly St. Mary's Hospital)
1471	St. Vincent's Hospital and Medical Center of New York
1738	Sister's of Charity @ St. Vincent's (Formerly St. Vincent's Med Ctr of Richmond)
1740	Staten Island University Hospital – North
0413	Strong Memorial Hospital – University of Rochester
0058	United Health Services Wilson Hospital Division
0245	University Hospital – Stony Brook
1320	University Hospital of Brooklyn
0635	State University Hospital of Upstate Medical Center
0181	Vassar Brothers Hospital
1139	Westchester Medical Center, Westchester Med. Ctr. Division
0511	Winthrop-University Hospital
0103	Women's Christian Association

8888 Catheterization Laboratory at a Veterans Administration Hospital in New York (for use in this reporting system; not an official Permanent Facility Identifier)

9999 Catheterization Laboratory Outside New York State (for use in this reporting system; not an official Permanent Facility Identifier)

PEDIATRIC CARDIAC SURGERY REPORT

ATTACHMENT B

Residence Codes

The county codes shown below are also used in the SPARCS Discharge Data Abstract:

01 Albany	35 Oswego
02 Allegany	36 Otsego
03 Broome	37 Putnum
04 Cattaraugus	38 Rensselaer
05 Cayuga	39 Rockland
06 Chautauqua	40 St. Lawrence
07 Chemung	41 Saratoga
08 Chenango	42 Schenectady
09 Clinton	43 Schoharie
10 Columbia	44 Schuyler
11 Cortland	45 Seneca
12 Delaware	46 Steuben
13 Dutchess	47 Suffolk
14 Erie	48 Sullivan
15 Essex	49 Tioga
16 Franklin	50 Tompkins
17 Fulton	51 Ulster
18 Genesee	52 Warren
19 Greene	53 Washington
20 Hamilton	54 Wayne
21 Herkimer	55 Westchester
22 Jefferson	56 Wyoming
23 Lewis	57 Yates
24 Livingston	58 Bronx
25 Madison	59 Kings
26 Monroe	60 Manhattan
27 Montgomery	61 Queens
28 Nassau	62 Richmond
29 Niagara	
30 Oneida	
31 Onondaga	88 Unknown
32 Ontario	
33 Orange	99 Outside NYS
34 Orleans	

PEDIATRIC CARDIAC SURGERY REPORT

ATTACHMENT C

NEW YORK STATE DEPARTMENT OF HEALTH STATE CARDIAC ADVISORY COMMITTEE

PRIMARY CARDIAC DIAGNOSIS CODES
--

Atrial Situs Anomalies

- 010 Situs Inversus
- 011 Situs Ambiguous/Heterotaxy Syndrome

Cardiac Position Anomalies

- 020 Dextrocardia
- 021 Mesocardia
- 022 Ectopia cordis

Anomalies of Pulmonary Veins

- 100 Partial Anomalous Return
- Total Anomalous Return
 - 101 Supracardiac
 - 102 Cardiac
 - 103 Infracardiac
 - 104 Mixed
- 105 Pulmonary Vein Stenosis
- 106 Cor triatriatum

Anomalies of Atrial Septum

- 110 Secundum ASD
- 111 Single Atrium
- 112 Unroofed Coronary Sinus
- 113 Sinus Venosus ASD

Anomalies of Atrioventricular Valve(s)

- Tricuspid Valve
 - 120 Ebstein's Anomaly
 - 121 Tricuspid Stenosis
 - 122 Tricuspid Regurgitation
 - 123 Straddling
- Mitral Valve
 - 130 Supravalvar Mitral Stenosis
 - 131 Valvar Mitral Stenosis
 - 132 Subvalvar Mitral Stenosis
 - 133 Mitral Regurgitation
 - 134 Straddling Mitral Valve
 - 135 Papillary Muscle Abnormality
- Common AV Valve Abnormality
 - 140 Stenosis
 - 141 Regurgitation
 - 142 Malaligned

PEDIATRIC CARDIAC SURGERY REPORT – Diagnosis Codes

Anomalies of Ventricular Septum

- 150 Perimembranous VSD
- 151 Doubly committed VSD (Subarterial)
- 152 Inlet VSD
- 153 Muscular VSD
- 154 Multiple VSDs

Atrioventricular Septal Defects (AVSD)

- 160 Partial AVSD (Primum ASD)
Complete AVSD
- 161 Balanced
- 162 Unbalanced

Univentricular Heart (Single Ventricle)

- 170 Double/Common Inlet LV
- 171 Double/Common Inlet RV
Tricuspid Atresia
 - 172 With IVS
 - 173 With VSD
 - 174 With TGA
- 175 Mitral Atresia
- 176 Indeterminate Ventricle
Hypoplastic Right Ventricle
 - 180 Pulmonary atresia with IVS
 - 181 Other type of hypoplastic RV
- 190 Hypoplastic Left Ventricle
Classical HLHS (Aortic Atresia w/ Hypoplastoc LV)
- 191 Any other hypoplastic LV

Anomalies of Ventricular Outflow Tracts

- 200 Pulmonary Ventricle Outflow Tract
 - 201 Pulmonary Valve Stenosis
 - 202 Subvalvar/Infundibular Pulmonary Stenosis
 - 203 Double Chamber Right Ventricle
 - 204 Branch Pulmonary Artery Stenosis
 - 205 Hypoplastic Pulmonary Arteries
 - 206 Pulmonary Valve Regurgitation
 - 207 Main Pulmonary Artery Atresia
 - 208 Branch Pulmonary Artery Atresia
- 210 Aortic Ventricle Outflow Tract
 - 211 Valvar Aortic Stenosis
 - 212 Subvalvar Aortic Stenosis
 - 211 Discrete
 - 212 Long Segment/Tunnel
 - 220 Supravalvar Aortic Stenosis
 - 230 Aortic Valve Atresia
 - 231 Aortic Valve Regurgitation
 - 232 Aortoventricular Tunnel

PEDIATRIC CARDIAC SURGERY REPORT – Diagnosis Codes

Tetralogy of Fallot (TOF)

- 240 RV-PA Continuity
- 241 TOF with Pulmonary Valve Atresia
- 242 Absent Pulmonary Valve Syndrome

Truncus Arteriosus

- 250 Type I
- 251 Type II
- 252 Type III

Transposition of the Great Arteries (TGA)

- 260 D-TGA
- 261 Congenitally Corrected Transposition

Double Outlet Right Ventricle (DORV)

- 270 Subaortic VSD
- 271 Subpulmonic VSD
- 272 Uncommitted VSD
- 273 Doubly Committed VSD
- 274 Restrictive VSD

Great Vessel Anomalies

- 280 Aortopulmonary Window
- 281 Patent Ductus Arteriosus
- 282 Origin of L/R PA from Aorta
- 283 Sinsus of Valsalva Aneurysm/Fistula
- 284 Aortic Coarctation
- 285 Aortic Interruption
- Aortic Aneurysm
 - 286 Ascending
 - 287 Descending
 - 288 Transverse
- 289 Vascular Ring
- 290 Origin of LPA from RPA (PA sling)
- 291 Discontinuous Pas
- 292 Bronchial PA Blood Flow (MAPCA)
- 293 Isolated LSVC
- 294 Bilateral SVCs
- 295 Azygous/Hemiazygous Cont IVC
- 296 Other Great Vessel Anomalies

Coronary Artery Anomalies

- 300 Coronary Artery Fistula
- 301 Coronary Artery Sinusoids
- 302 Coronary Artery Stenosis
- 303 Coronary Artery Aneurysm
- 304 Anomalous Origin Coronary Artery
- 305 Atresia Left Main Coronary Artery
- 306 Atresia Right Main Coronary Artery

PEDIATRIC CARDIAC SURGERY REPORT – Diagnosis Codes

Cardiac Rhythm Anomalies

- 310 Supraventricular tachycardia
- 311 Ventricular tachycardia
- 312 Sinus bradycardia
- 313 Heart Block

Cardiomyopathies

- Hypertrophic
- 320 Left Ventricle
- 321 Right Ventricle
- 322 Dilated

398 Other Diagnoses NOT Listed

Acquired Disease

- 400 Kawasaki's Disease
- 401 Endocarditis
- 402 Myocarditis
- 403 Traumatic

Organ Failure

- 820 Cardiac
- 821 Pulmonary

Cardiac Neoplasms

- 900 Atrial
- 901 Ventricular
- 902 Valvular
- 903 Great Vessel

PEDIATRIC CARDIAC SURGERY REPORT

ATTACHMENT D

NEW YORK STATE DEPARTMENT OF HEALTH STATE CARDIAC ADVISORY COMMITTEE

CONGENITAL AND ACQUIRED CARDIAC PROCEDURE CODES

Anomalies of Pulmonary Veins

- 100 Repair of Anomalous Pulmonary Venous Return
- 101 Repair of Pulmonary Vein Stenosis
- 103 Repair of Partial Anomalous Pulmonary Venous Return

Anomalies of Atrial Septum

- 120 ASD Closure
- 121 Creation of ASD
- 122 Repair of Cor Triatriatum

Atrioventricular Septal Defect (AVSD)

- 130 Repair of Complete AV Canal
- 131 Repair of Partial AV Canal

Anomalies of Ventricular Septum

- 140 Repair of VSD
- 141 Creation/Enlargement of VSD
- 142 Fenestration of VSD Patch

Anomalies of Atrioventricular Valves

- Tricuspid Valve
- 150 Repair (nonEbstein's Valve)
Replacement
- 151 Homograft
- 152 Prosthetic
- 153 Tricuspid Valve Closure
- 154 Repair Ebstein's Anomaly
- Mitral Valve
- 160 Resect supramitral ring
- 161 Repair (Including annuloplasty)
Replacement
- 162 Homograft
- 163 Prosthetic
- 170 Common AV Valve Repair

Anomalies of Ventricular Outflow Tract(s)

- Pulmonary Ventricle Outflow Tract
- 180 Pulmonary Valvotomy/Valvectomy
- 181 Resection of subvalvar PS
- 182 Repair of supra-valvar PS

PEDIATRIC CARDIAC SURGERY REPORT – Procedure Codes

Anomalies of Ventricular Outflow Tract(s) (continued)

	Pulmonary Valve Replacement
190	Homograft
191	Prosthetic
	Pulmonary Outflow Conduit
	Valved
200	Homograft
201	Prosthetic
202	Nonvalved
	Transannular Patch
210	With Monocusp Valve
211	Without Monocusp Valve
212	Repair Branch PS
	Aortic Ventricle Outflow Tract
220	Aortic Valvuloplasty
221	Aortic Valvotomy
230	Repair Supravalvar AS
231	Resection of Discrete Subvalvar AS
235	Aortoventriculoplasty (Konno Procedure)
	Aortic Valve Replacement
240	Autograft
241	Homograft
242	Prosthetic
	Aortic Root Replacement
250	Autograft
251	Homograft
252	Prosthetic
255	LV Apex to Aorta Conduit

Tetralogy of Fallot

260	Repair with Pulmonary Valvotomy
261	Repair with Transannular patch
262	Repair with non-valved conduit
	Repair with valved conduit
263	Homograft
264	Prosthetic
265	Repair with reduction/plasty of PA s
	Repair with pulmonary valve replacement
266	Homograft
267	Prosthetic

Truncus Arteriosus

262	Repair with non-valved conduit
	Repair with valved conduit
263	Homograft
264	Prosthetic

PEDIATRIC CARDIAC SURGERY REPORT – Procedure Codes

Univentricular Heart (Single Ventricle)

	Fontan Operations
270	Direct RA-PA Connection
	Total Cavopulmonary Connection
271	Lateral tunnel – nonfenestrated
272	Lateral tunnel – fenestrated
273	Extracardiac – nonfenestrated
274	Extracardiac – fenestrated
275	Septation of Single Ventricle
	Hypoplastic Right Ventricle
	Valved
200	Homograft
201	Prosthetic
202	Nonvalved
	Transannular Patch
210	With Monocusp Valve
211	Without Monocusp Valve
	Hypoplastic Left Ventricle
280	Norwood
290	Damus Kaye Stansel (DSK)

Transposition of Great Arteries or Double Outlet RV

310	Arterial Switch
311	Senning Procedure
312	Mustard Procedure
313	Intraventricular Repair of DORV
	Rastelli Procedure
	RV-PA Conduit
	Valved
320	Homograft
321	Prosthetic
322	Nonvalved
325	REV operation (Modified Rastelli)
	LV-PA Conduit
	Valved
326	Homograft
327	Prosthetic
328	Nonvalved

PEDIATRIC CARDIAC SURGERY REPORT – Procedure Codes

Great Vessel Anomalies

- 330 PDA Ligation
- 331 Repair Aortopulmonary window
- 332 Reimplantation of left or right pulmonary artery
- 333 Repair Sinus of Valsalva Aneurysm
- Aortic Repair (Coarctation or Interruption)
 - 340 End to end anastomosis
 - 341 Subclavian flap angioplasty
 - 342 Onlay patch
 - 343 Interposition graft
- 344 Vascular Ring Division
- 345 Repair of PA Sling
- 346 Reimplantation of Innominate Artery
- 347 Aortopexy

Coronary Artery Anomalies

- Translocation of LCA to Aorta
 - 350 Direct
 - 351 Transpulmonary Tunnel (Takeuchi)
- 352 Coronary Artery Ligation
- 353 Coronary Fistula Ligation

Cardiomyopathies

- 360 Left Ventricular Reduction (Batista)
- 361 Radical Myectomy

Interval Procedures

- 370 Pulmonary Artery Band
- 375 Unifocalization of Pulmonary Vessels
- Shunts
 - 381 Central Aortopulmonary shunt
 - Blalock Taussig shunts
 - 382 Classical
 - 383 Modified
 - Glenn shunts
 - 384 Unidirectional (Classical)
 - 385 Bidirectional
 - 386 Bilateral Bidirectional

390 Cardiac Arrhythmia Surgery

398 Other Operations for Congenital Heart Disease

PEDIATRIC CARDIAC SURGERY REPORT – Procedure Codes

Traumatic Injury

- 403 Stab Wound or Other Penetrating Wound of the Heart or Great Vessel Repair
420 Repair of Aortic Deceleration Injury

Coronary Artery Bypass Grafts

- 671-676** Saphenous Vein Graft Only
681-686** Single Artery Graft (Internal Mammary, Radial, Gastroepoic, or Other Arterial Graft)
691-696** Double Artery Graft (Internal Mammary, Radial, Gastroepoic, or Other Arterial Graft)
701-706** Other Graft (*Use for any other combination not listed above; including triple artery grafts*)

** For Coronary Artery Bypass Grafts (671-706), use the third digit to indicate the number of distal anastomoses. If more than 6, list as 6.

*Examples: Saphenous Vein Graft Only; three distal anastomoses: 673
Four saphenous vein anastomoses and double IMA: 696*

Organ Failure

- 820 Heart Transplant
821 Heat and Lung Transplant
822 Lung Transplant
823 LVAD/RVAD/BIVAD
824 ECMO

Cardiac Neoplasms

- 904 Removal of Intracardiac Tumor

- 998 **Other Operations for Acquired Heart Diseases**