

# Pediatric Heart Surgery Volume

## Pediatric Quality Indicators #7

### Technical Specifications

#### Provider-Level Indicator

#### AHRQ Quality Indicators, Version 4.4, March 2012

### Numerator

Discharges under age 18 with ICD-9-CM procedure codes for either congenital heart disease (1P) or non-specific heart surgery (2P) with ICD-9-CM diagnosis of congenital heart disease (2D) in any field.

#### ICD-9-CM Congenital heart disease procedure codes (1P)<sup>1,2</sup>:

<b>3500</b>	<b>CLOSED VALVOTOMY NOS</b>	3551	PROS REP ATRIAL DEF-OPN
3501	CLOSED AORTIC VALVOTOMY	3552	PROS REPAIR ATRIA DEF-CL
3502	CLOSED MITRAL VALVOTOMY	3553	PROS REP VENTRIC DEF-OPN
3503	CLOSED PULMON VALVOTOMY	3554	PROS REP ENDOCAR CUSHION
3504	CLOSED TRICUSP VALVOTOMY	3560	GRFT REPAIR HRT SEPT NOS
<b>3505</b>	<b>ENDOVAS REPL AORTC VALVE</b>	3561	GRAFT REPAIR ATRIAL DEF
<b>3506</b>	<b>TRNSAPCL REP AORTC VALVE</b>	3562	GRAFT REPAIR VENTRIC DEF
<b>3507</b>	<b>ENDOVAS REPL PULM VALVE</b>	3563	GRFT REP ENDOCAR CUSHION
<b>3508</b>	<b>TRNSAPCL REPL PULM VALVE</b>	3570	HEART SEPTA REPAIR NOS
3510	OPEN VALVULOPLASTY NOS	3571	ATRIA SEPTA DEF REP NEC
3511	OPN AORTIC VALVULOPLASTY	3572	VENTR SEPTA DEF REP NEC
3512	OPN MITRAL VALVULOPLASTY	3573	ENDOCAR CUSHION REP NEC
3513	OPN PULMON VALVULOPLASTY	3581	TOT REPAIR TETRAL FALLOT
3514	OPN TRICUS VALVULOPLASTY	3582	TOTAL REPAIR OF TAPVC
3520	OPN/OTH REP HRT VLV NOS	3583	TOT REP TRUNCUS ARTERIOS
3521	OPN/OTH REP AORT VLV-TIS	3584	TOT COR TRANSPOS GRT VES
3522	OPN/OTH REP AORTIC VALVE	3591	INTERAT VEN RETRN TRANSP
3523	OPN/OTH REP MTRL VLV-TIS	3592	CONDUIT RT VENT-PUL ART
3524	OPN/OTH REP MITRAL VALVE	3593	CONDUIT LEFT VENTR-AORTA
3525	OPN/OTH REP PULM VLV-TIS	3594	CONDUIT ARTIUM-PULM ART
3526	OPN/OTH REPL PUL VALVE	3595	HEART REPAIR REVISION
3527	OPN/OTH REP TCSPD VLV-TS	3598	OTHER HEART SEPTA OPS
3528	OPN/OTH REPL TCSPD VALVE	3599	OTHER HEART VALVE OPS
3531	PAPILLARY MUSCLE OPS	3699	HEART VESSEL OP NEC
3532	CHORDAE TENDINEAE OPS	3733	EXC/DEST HRT LESION OPEN
3533	ANNULOPLASTY	3736	EXC,DESTRCT,EXCLUS LAA
3534	INFUNDIBULECTOMY	375	<i>HEART TRANSPLANTATION</i>
3535	TRABECUL CARNEAE CORD OP	3751	HEART TRANSPLANTATION
3539	TISS ADJ TO VALV OPS NEC	3752	IMP TOT INT BI HT RP SYS
3541	ENLARGE EXISTING SEP DEF	390	SYSTEMIC-PULM ART SHUNT
3542	CREATE SEPTAL DEFECT	3921	CAVAL-PULMON ART ANASTOM
3550	PROSTH REP HRT SEPTA NOS		

<sup>1</sup> Italicized codes are not active in the current fiscal year.

<sup>2</sup> Bolded codes are new to the current fiscal year..

**ICD-9-CM Non-specific cardiac procedure codes (2P):**

3834	AORTA RESECTION & ANAST	3885	OCCLUDE THORACIC VES NEC
3835	THOR VESSEL RESECT/ANAST	3949	VASC PROC REVISION NEC
3844	RESECT ABDM AORTA W REPL	3956	REPAIR VESS W TIS PATCH
3845	RESECT THORAC VES W REPL	3957	REP VESS W SYNTH PATCH
3864	EXCISION OF AORTA	3958	REPAIR VESS W PATCH NOS
3865	THORACIC VESSEL EXCISION	3959	REPAIR OF VESSEL NEC
3884	OCCLUDE AORTA NEC		

**ICD-9-CM Congenital heart disease diagnosis codes (2D)<sup>1,2</sup>:**

7450	COMMON TRUNCUS	7467	HYPOPLAS LEFT HEART SYND
74510	COMPL TRANSPOS GREAT VES	74681	CONG SUBAORTIC STENOSIS
74511	DOUBLE OUTLET RT VENTRIC	74682	COR TRIATRIATUM
74512	CORRECT TRANSPOS GRT VES	74683	INFUNDIB PULMON STENOSIS
74519	TRANSPOS GREAT VESS NEC	74684	OBSTRUCT HEART ANOM NEC
7452	TETRALOGY OF FALLOT	74685	CORONARY ARTERY ANOMALY
7453	COMMON VENTRICLE	74687	MALPOSITION OF HEART
7454	VENTRICULAR SEPT DEFECT	74689	CONG HEART ANOMALY NEC
7455	SECUNDUM ATRIAL SEPT DEF	7469	CONG HEART ANOMALY NOS
74560	ENDOCARD CUSHION DEF NOS	7470	PATENT DUCTUS ARTERIOSUS
74561	OSTIUM PRIMUM DEFECT	74710	COARCTATION OF AORTA
74569	ENDOCARD CUSHION DEF NEC	74711	INTERRUPT OF AORTIC ARCH
7457	COR BILOCULARE	74720	CONG ANOM OF AORTA NOS
7458	SEPTAL CLOSURE ANOM NEC	74721	ANOMALIES OF AORTIC ARCH
7459	SEPTAL CLOSURE ANOM NOS	74722	AORTIC ATRESIA/STENOSIS
74600	PULMONARY VALVE ANOM NOS	74729	CONG ANOM OF AORTA NEC
74601	CONG PULMON VALV ATRESIA	<i>7473</i>	<i>PULMONARY ARTERY ANOM</i>
74602	CONG PULMON VALVE STENOS	<b>74731</b>	<b>PULMON ART COARCT/ATRES</b>
74609	PULMONARY VALVE ANOM NEC	<b>74732</b>	<b>PULMONARY AV MALFORMATN</b>
7461	CONG TRICUSP ATRES/STEN	<b>74739</b>	<b>OTH ANOM PUL ARTERY/CIRC</b>
7462	EBSTEIN'S ANOMALY	74740	GREAT VEIN ANOMALY NOS
7463	CONG AORTA VALV STENOSIS	74741	TOT ANOM PULM VEN CONNEN
7464	CONG AORTA VALV INSUFFIC	74742	PART ANOM PULM VEN CONN
7465	CONGEN MITRAL STENOSIS	74749	GREAT VEIN ANOMALY NEC
7466	CONG MITRAL INSUFFICIENC		

<sup>1</sup> Italicized codes are not active in the current fiscal year.

<sup>2</sup> Bolded codes are new to the current fiscal year.

Exclude cases:

- MDC 14 (pregnancy, childbirth and puerperium)
- with transcatheter interventions (either 3AP, 3BP, 3CP, 3DP, 3EP with any diagnosis code of 3D, or 3FP) as single cardiac procedures, performed without bypass (5P) but with catheterization (6P);
- with septal defects (4P) as single cardiac procedures without bypass (5P)
- with missing discharge gender (SEX=missing), age (AGE=missing), quarter (DQTR=missing), year (YEAR=missing) or principal diagnosis (DX1=missing)

**ICD-9-CM Closed heart valvotomy procedure codes (3AP):**

3500	CLOSED VALVOTOMY NOS	3503	CLOSED PULMON VALVOTOMY
3501	CLOSED AORTIC VALVOTOMY	3504	CLOSED TRICUSP VALVOTOMY
3502	CLOSED MITRAL VALVOTOMY		

**ICD-9-CM Atrial septal enlargement procedure codes (3BP):**

3541 ENLARGE EXISTING SEP DEF 3542 CREATE SEPTAL DEFECT

**ICD-9-CM Atrial septal defect repair procedure codes (3CP):**

3551 PROS REP ATRIAL DEF-OPN 3571 ATRIA SEPTA DEF REP NEC

**ICD-9-CM Ventricular septal defect repair procedure codes (3DP):**

3553 PROS REP VENTRIC DEF-OPN 3572 VENTR SEPTA DEF REP NEC

**ICD-9-CM Occlusion of thoracic vessel procedure code (3EP):**

3885 OCCLUDE THORACIC VES NEC

**ICD-9-CM PDA closure diagnosis code (3D):**

7470 PATENT DUCTUS ARTERIOSUS

**ICD-9-CM Other surgical occlusion procedure codes (3FP):**

3884 OCCLUDE AORTA NEC 3959 REPAIR OF VESSEL NEC

3885 OCCLUDE THORACIC VES NEC

**ICD-9-CM Atrial septal defect repair and enlargement procedure codes (4P):**

3541 ENLARGE EXISTING SEP DEF 3552 PROS REPAIR ATRIA DEF-CL

**ICD-9-CM Extracorporeal circulation procedure code (5P):**

3961 EXTRACORPOREAL CIRCULAT

**ICD-9-CM Catheterization procedure codes (6P):**

3721	RT HEART CARDIAC CATH	8851	VENA CAV ANGIOCARDIOGRAM
3722	LEFT HEART CARDIAC CATH	8852	RT HEART ANGIOCARDIOGRAM
3723	RT/LEFT HEART CARD CATH	8853	LT HEART ANGIOCARDIOGRAM
8842	CONTRAST AORTOGRAM	8854	RT & LT HEART ANGIOCARD
8843	CONTR PULMON ARTERIOGRAM	8855	CORONAR ARTERIOGR-1 CATH
8844	CONTR THOR ARTERIOGR NEC	8856	CORONAR ARTERIOGR-2 CATH
8850	ANGIOCARDIOGRAPHY NOS	8857	CORONARY ARTERIOGRAM NEC
		8858	NEGATVE-CONTR CARDIOGRAM

## Denominator

Not applicable.