

STS Congenital Heart Surgery Data Summary

July 2005 - June 2009 Procedures

Infants (31 days - 1 year)

Table 1: Number of patients/operations submitted and in analysis, discharge mortality, and complexity information, by year

Year	Operations Submitted	Operations in Analysis	Patients in Analysis	Discharge Mortality		Aristotle Mean Basic	
				# / Eligible	% of patients	Complexity Score	Complexity Level
Jul 05 - Jun 06	5,999	5,385	4,764	109 / 4,514	2.4%	7.2	2.4
Jul 06 - Jun 07	7,327	6,621	5,696	141 / 5,387	2.6%	7.2	2.4
Jul 07 - Jun 08	7,968	7,085	5,982	200 / 5,617	3.6%	7.2	2.4
Jul 08 - Jun 09	7,752	6,886	5,712	143 / 5,455	2.6%	7.3	2.4
Total	29,046	25,977	22,154	593 / 20,973	2.8%	7.2	2.4

Note: Analysis includes only operations classified as "CPB" or "No CPB, Cardiovascular". Patient numbers represent distinct patient admissions. Mortality numbers are patient-based only for admissions in the analysis population at sites with adequate mortality data.

Table 2: Primary diagnosis (N = 25,977), 25 Most Frequent

Diagnosis	Incidence	
	#	% of all
VSD, Type 2 (Perimembranous)(Paramembranous)(Conoventricular)	3,035	11.7
TOF	2,869	11.0
AVC (AVSD), Complete CAVSD	2,289	8.8
Patent ductus arteriosus	1,667	6.4
Hypoplastic left heart syndrome (HLHS)	1,623	6.2
Cardiac, Other	1,042	4.0
Coarctation of aorta	856	3.3
[Missing diagnosis]	657	2.5
Miscellaneous, Other	570	2.2
Single ventricle, Tricuspid atresia	537	2.1
Pulmonary atresia, VSD (Including TOF, PA)	432	1.7
ASD, Secundum	380	1.5
Single ventricle, DILV	372	1.4
Vascular ring	345	1.3
VSD, Single	278	1.1
Pulmonary atresia, IVS	265	1.0
AVC (AVSD), Intermediate (Transitional)	260	1.0
DORV, TOF type	259	1.0
Pulmonary atresia, VSD-MAPCA (Pseudotruncus)	257	1.0
VSD, Multiple	257	1.0



Database Summary - Last 4 Years - Infants - 2

Diagnosis	Incidence	
	#	% of all
VSD, Type 1 (Subarterial)(Supracristal)(Conal septal defect)(Infundibular)	236	0.9
Arrhythmia, Heart block, Acquired	233	0.9
DORV, VSD type	232	0.9
Single ventricle, Heterotaxia syndrome	212	0.8
TGA, VSD	204	0.8

Table 3: Primary procedure based on Aristotle Basic Complexity Score (N = 25,977), 25 Most Frequent

Procedure	Incidence		Discharge Mortality		Basic Complexity Score	Basic Complexity Level
	#	% of all	# / Eligible	%		
VSD repair, Patch	3,475	13.4	24 / 3,441	0.7%	6.0	2
Bidirectional cavopulmonary anastomosis (BDCPA) (Bidirectional Glenn)	2,425	9.3	44 / 2,418	1.8%	7.0	2
AVC (AVSD) repair, Complete (CAVSD)	2,061	7.9	38 / 2,042	1.9%	9.0	3
PDA closure, Surgical	1,744	6.7	20 / 765	2.6%	3.0	1
TOF repair, Ventriculotomy, Transanular patch	1,372	5.3	19 / 1,344	1.4%	8.0	3
Delayed sternal closure	977	3.8	1 / 970	0.1%	1.5	1
Mediastinal exploration	711	2.7	3 / 703	0.4%	1.5	1
TOF repair, No ventriculotomy	632	2.4	2 / 630	0.3%	8.0	3
TOF repair, Ventriculotomy, Nontransanular patch	560	2.2	1 / 557	0.2%	7.5	2
RVOT procedure	531	2.0	9 / 525	1.7%	6.5	2
Coarctation repair, End to end, Extended	489	1.9	6 / 482	1.2%	8.0	3
PA banding (PAB)	489	1.9	29 / 484	6.0%	6.0	2
Shunt, Systemic to pulmonary, Modified Blalock-Taussig shunt (MBTS)	486	1.9	41 / 481	8.5%	6.3	2
Pacemaker implantation, Permanent	418	1.6	5 / 414	1.2%	3.0	1
TAPVC repair	395	1.5	9 / 391	2.3%	9.0	3
Bilateral bidirectional cavopulmonary anastomosis (BBDCPA) (Bilateral bidirectional Glenn)	373	1.4	9 / 372	2.4%	7.5	2
Vascular ring repair	351	1.4	2 / 346	0.6%	6.0	2
DORV, Intraventricular tunnel repair	344	1.3	14 / 338	4.1%	10.3	4
Valvuloplasty, Mitral	343	1.3	7 / 339	2.1%	8.0	3
Coarctation repair, End to end	338	1.3	1 / 338	0.3%	6.0	2
Transplant, Heart	272	1.0	15 / 271	5.5%	9.3	3
Hemifontan	264	1.0	6 / 252	2.4%	8.0	3
PA, Reconstruction (plasty), Branch, Central (within the hilar bifucation)	233	0.9	13 / 230	5.7%	7.8	2
ASD repair, Patch	215	0.8	2 / 214	0.9%	3.0	1
Aortic arch repair	204	0.8	8 / 203	3.9%	7.0	2