

STS Congenital Heart Surgery Data Summary

July 2005 - June 2009 Procedures

All Patients

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	19,535	16,764	14,821	515 / 13,458	3.8%	7.2	2.4
Jul 06 - Jun 07	23,153	20,150	17,446	580 / 15,864	3.7%	7.3	2.4
Jul 07 - Jun 08	25,321	21,728	18,482	691 / 16,856	4.1%	7.4	2.4
Jul 08 - Jun 09	23,630	20,122	17,074	544 / 15,786	3.4%	7.3	2.4
Total	91,639	78,764	67,823	2,330 / 61,964	3.8%	7.3	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 = 78,764), 25 Most Frequent

Diagnosis	Incidence	
	#	% of all
Patent ductus arteriosus	6,124	7.8
Hypoplastic left heart syndrome (HLHS)	5,481	7.0
VSD, Type 2 (Perimembranous)(Paramembranous)(Conoventricular)	4,527	5.7
TOF	4,168	5.3
Cardiac, Other	3,738	4.7
Coarctation of aorta	3,132	4.0
ASD, Secundum	2,924	3.7
AVC (AVSD), Complete CAVSD	2,788	3.5
Miscellaneous, Other	1,993	2.5
[Missing diagnosis]	1,923	2.4
TGA, IVS	1,534	1.9
Aortic stenosis, Subvalvar	1,516	1.9
Single ventricle, Tricuspid atresia	1,473	1.9
Pulmonary atresia, VSD (Including TOF, PA)	1,307	1.7
Pulmonary insufficiency	1,132	1.4
Arrhythmia	1,115	1.4
Single ventricle, DILV	1,085	1.4
TGA, VSD	1,054	1.3
Conduit failure	1,040	1.3
Pulmonary atresia, IVS	927	1.2



Database Summary - Last 4 Years - All Patients - 2

Diagnosis	Incidence	
	#	% of all
ASD, Sinus venosus	907	1.2
AVC (AVSD), Partial (Incomplete) (PAVSD) (ASD, Primum)	903	1.1
Vascular ring	891	1.1
Arrhythmia, Pacemaker, Indication for replacement	887	1.1
Cardiomyopathy	863	1.1

Table 3: Primary procedure based on Aristotle Basic Complexity Score (N = 78,764), 25 Most Frequent

Procedure	Incidence		Discharge Mortality		Basic Complexity Score	Basic Complexity Level
	#	% of all	# / Eligible	%		
PDA closure, Surgical	6,381	8.1	37 / 1,254	3.0%	3.0	1
VSD repair, Patch	5,009	6.4	31 / 4,956	0.6%	6.0	2
Delayed sternal closure	3,722	4.7	2 / 3,705	0.1%	1.5	1
Bidirectional cavopulmonary anastomosis (BDCPA) (Bidirectional Glenn)	2,668	3.4	46 / 2,661	1.7%	7.0	2
ASD repair, Patch	2,636	3.3	2 / 2,615	0.1%	3.0	1
Norwood procedure	2,426	3.1	447 / 2,395	18.7%	14.5	4
Mediastinal exploration	2,378	3.0	24 / 2,361	1.0%	1.5	1
AVC (AVSD) repair, Complete (CAVSD)	2,265	2.9	46 / 2,245	2.0%	9.0	3
Shunt, Systemic to pulmonary, Modified Blalock-Taussig shunt (MBTS)	1,957	2.5	142 / 1,939	7.3%	6.3	2
Coarctation repair, End to end, Extended	1,875	2.4	37 / 1,848	2.0%	8.0	3
Pacemaker implantation, Permanent	1,861	2.4	25 / 1,850	1.4%	3.0	1
TOF repair, Ventriculotomy, Transanular patch	1,731	2.2	34 / 1,692	2.0%	8.0	3
Arterial switch operation (ASO)	1,469	1.9	39 / 1,460	2.7%	10.0	4
Pacemaker procedure	1,381	1.8	23 / 1,370	1.7%	3.0	1
Aortic stenosis, Subvalvar, Repair	1,365	1.7	6 / 1,339	0.4%	6.3	2
Valvuloplasty, Mitral	1,338	1.7	11 / 1,323	0.8%	8.0	3
Fontan, TCPC, External conduit, Fenestrated	1,280	1.6	20 / 1,272	1.6%	9.0	3
RVOT procedure	1,275	1.6	32 / 1,255	2.5%	6.5	2
Valve replacement, Pulmonic (PVR)	1,245	1.6	5 / 1,223	0.4%	6.5	2
Conduit reoperation	1,237	1.6	12 / 1,227	1.0%	8.0	3
TAPVC repair	1,206	1.5	125 / 1,193	10.5%	9.0	3
PA banding (PAB)	1,160	1.5	121 / 1,141	10.6%	6.0	2
Coarctation repair, End to end	1,105	1.4	7 / 1,099	0.6%	6.0	2
Transplant, Heart	1,040	1.3	51 / 1,038	4.9%	9.3	3
Vascular ring repair	905	1.1	5 / 897	0.6%	6.0	2