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Established 1964	

STS Congenital Heart Surgery Data Summary Children

U Duke Clinical Research Institute

STS Period Ending 12/31/2016

Table 1: Children number submitted, in analysis, and operative mortality

		STS	
	Last 1 Year Jan 2016 - Dec 2016	Last Four Years Jan 2013 - Dec 2016	
Number of Operations/Patients			
Operations in Analysis ¹ Patients in Analysis ²	10,326 9,536	41,993 38,875	
Operative Mortality ³			
Number of Mortalities Number Eligible Mortality Percent	92 9,477 1.0%	398 38,660 1.0%	
Mortality (95% CI)	(0.8 , 1.2)	(0.9 , 1.1)	

¹Analysis includes only operations classified as "CPB" or "No CPB, Cardiovascular"

²Patient Numbers represent distinct patient admissions

³Mortality numbers are patient-based only for admission in the analysis population at sites with adequate mortality data



STS Congenital Heart Surgery Data Summary Children

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Table 2: Primary diagnosis, 35 Most Frequent for Children, Last 4 Years (Jan 2013 - Dec 2016)

	S.	TS
Primary Diagnosis	N	% of All
ASD, Secundum	3,908	9.3%
VSD, Type 2 (Perimembranous) (Paramembranous) (Conoventricular)	1,963	4.7%
Aortic stenosis, Subvalvar	1,808	4.3%
Hypoplastic left heart syndrome (HLHS)	1,727	4.1%
Pulmonary insufficiency	1,648	3.9%
Conduit failure	1,507	3.6%
Cardiac, Other	1,221	2.9%
ASD, Sinus venosus	1,096	2.6%
Cardiomyopathy (including dilated, restrictive, and hypertrophic)	984	2.3%
Coarctation of aorta	970	2.3%
Aortic insufficiency	956	2.3%
Mitral regurgitation	917	2.2%
Vascular ring	906	2.2%
AVC (AVSD), Partial (incomplete) (PAVSD) (ASD, primum)	823	2.0%
Arrhythmia, Pacemaker, Indication for replacement	816	1.9%
Single ventricle, Tricuspid atresia	783	1.9%
Coronary artery anomaly, Anomalous aortic origin of coronary artery (AAOCA)	735	1.8%
Single ventricle, DILV	587	1.4%
Miscellaneous, Other	543	1.3%
Partial anomalous pulmonary venous connection (PAPVC)	520	1.2%
TOF, Pulmonary stenosis	502	1.2%
Aortic stenosis, Valvar	472	1.1%
Arrhythmia, Heart block	471	1.1%
AVC (AVSD), Complete (CAVSD)	470	1.1%
Aortic insufficiency and aortic stenosis	463	1.1%
Single ventricle, Heterotaxia syndrome	431	1.0%
Pulmonary atresia, IVS	408	1.0%
Pulmonary atresia, VSD (Including TOF, PA)	400	1.0%
Open sternum with open skin (includes membrane placed to close skin)	399	1.0%
Pulmonary stenosis, Valvar	395	0.9%
Ebstein's anomaly	388	0.9%
Pulmonary atresia, VSD-MAPCA	387	0.9%
Arrhythmia, Heart block, Acquired	383	0.9%
TOF	365	0.9%
AVC (AVSD), Intermediate (transitional)	363	0.9%

N 3,178 1,954 1,811 1,588 1,390 1,263 1,247 1,200 1,172 1,165 1,120 1,109 987	STS % of All 7.6% 4.7% 4.3% 3.8% 3.3% 3.0% 3.0% 2.9% 2.8% 2.8% 2.8% 2.8% 2.7% 2.7%	% Mort. 0.1% 1.2% 0.3% 0.5% 1.1% 0.2% 0.2% 3.8% 0.7% 0.6% 0.5% 0.2%
N 3,178 1,954 1,811 1,588 1,390 1,263 1,247 1,200 1,172 1,165 1,120 1,109	STS % of All 7.6% 4.7% 4.3% 3.8% 3.3% 3.0% 3.0% 2.9% 2.8% 2.8% 2.8% 2.8% 2.7% 2.7%	0.1% 1.2% 0.3% 0.5% 1.1% 0.2% 0.2% 3.8% 0.7% 0.6% 0.5%
3,178 1,954 1,811 1,588 1,390 1,263 1,247 1,200 1,172 1,165 1,120 1,109	7.6% 4.7% 4.3% 3.8% 3.3% 3.0% 3.0% 2.9% 2.8% 2.8% 2.8% 2.7% 2.7%	0.1% 1.2% 0.3% 0.5% 1.1% 0.2% 0.2% 3.8% 0.7% 0.6% 0.5%
1,954 1,811 1,588 1,390 1,263 1,247 1,200 1,172 1,165 1,120 1,109	4.7% 4.3% 3.8% 3.3% 3.0% 3.0% 2.9% 2.8% 2.8% 2.8% 2.7% 2.7%	$\begin{array}{c} 1.2\% \\ 0.3\% \\ 0.5\% \\ 1.1\% \\ 0.2\% \\ 0.2\% \\ 3.8\% \\ 0.7\% \\ 0.6\% \\ 0.5\% \end{array}$
1,811 1,588 1,390 1,263 1,247 1,200 1,172 1,165 1,120 1,109	4.3% 3.8% 3.3% 3.0% 2.9% 2.8% 2.8% 2.8% 2.7% 2.7%	0.3% 0.5% 1.1% 0.2% 0.2% 3.8% 0.7% 0.6% 0.5%
1,588 1,390 1,263 1,247 1,200 1,172 1,165 1,120 1,109	3.8% 3.3% 3.0% 2.9% 2.8% 2.8% 2.7% 2.7%	0.5% 1.1% 0.2% 0.2% 3.8% 0.7% 0.6% 0.5%
1,390 1,263 1,247 1,200 1,172 1,165 1,120 1,109	3.3% 3.0% 3.0% 2.9% 2.8% 2.8% 2.7% 2.7%	1.1% 0.2% 3.8% 0.7% 0.6% 0.5%
1,263 1,247 1,200 1,172 1,165 1,120 1,109	3.0% 3.0% 2.9% 2.8% 2.8% 2.7% 2.7%	0.2% 0.2% 3.8% 0.7% 0.6% 0.5%
1,247 1,200 1,172 1,165 1,120 1,109	3.0% 2.9% 2.8% 2.8% 2.7% 2.7%	0.2% 3.8% 0.7% 0.6% 0.5%
1,200 1,172 1,165 1,120 1,109	2.9% 2.8% 2.8% 2.7% 2.7%	3.8% 0.7% 0.6% 0.5%
1,172 1,165 1,120 1,109	2.8% 2.8% 2.7% 2.7%	0.7% 0.6% 0.5%
1,165 1,120 1,109	2.8% 2.7% 2.7%	0.6% 0.5%
1,120 1,109	2.7% 2.7%	0.5%
1,109	2.7%	
		0.2%
987		
	2.4%	0.1%
930	2.2%	0.4%
846	2.0%	0.9%
824	2.0%	0.1%
816	2.0%	0.1%
753	1.8%	0.3%
713	1.7%	0.4%
		3.1%
		0.3%
		1.5%
		0.0%
		0.5%
		0.2%
		0.2%
		0.2%
		0.8%
		0.5%
		0.8%
359	0.9%	0.3%
357		0.0%
346	0.8%	0.6%
	0.8%	0.6%
047	0.8%	0.6%
	357	6351.5%6151.5%5921.4%5771.4%4721.1%4231.0%4061.0%3991.0%3971.0%3840.9%3590.9%3570.9%3460.8%3290.8%