



**STS Congenital Heart Surgery Data Summary
Infants**

STS Period Ending 12/31/2017

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

	STS	
	Last 1 Year Jan 2017 - Dec 2017	Last Four Years Jan 2014 - Dec 2017
Number of Operations/Patients		
Operations in Analysis ¹	10,019	41,033
Patients in Analysis ²	8,007	33,207
Operative Mortality³		
Number of Mortalities	195	874
Number Eligible	7,501	31,281
Mortality Percent	2.6%	2.8%
Mortality (95% CI)	(2.3 , 3.0)	(2.6 , 3.0)

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



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Duke Clinical Research Institute

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Table 2: Primary diagnosis, 35 Most Frequent for Infants, Last 4 Years (Jan 2014 - Dec 2017)

Primary Diagnosis	STS	
	N	% of All
VSD, Type 2 (Perimembranous) (Paramembranous) (Conoventricular)	5,378	13.1%
TOF, Pulmonary stenosis	3,663	8.9%
AVC (AVSD), Complete (CAVSD)	3,416	8.3%
Patent ductus arteriosus	2,763	6.7%
Hypoplastic left heart syndrome (HLHS)	2,291	5.6%
Open sternum with open skin (includes membrane placed to close skin)	2,124	5.2%
Coarctation of aorta	1,187	2.9%
Single ventricle, Tricuspid atresia	842	2.1%
TOF	762	1.9%
Vascular ring	752	1.8%
Cardiac, Other	725	1.8%
Pulmonary atresia, VSD (Including TOF, PA)	693	1.7%
Single ventricle, DILV	572	1.4%
Miscellaneous, Other	547	1.3%
DORV, TOF type	544	1.3%
Pulmonary atresia, IVS	513	1.3%
Pulmonary atresia, VSD-MAPCA	461	1.1%
VSD, Multiple	447	1.1%
ASD, Secundum	413	1.0%
Single ventricle, Heterotaxia syndrome	401	1.0%
DORV, VSD type	368	0.9%
VSD, Type 1 (Subarterial) (Supracristal) (Conal septal defect) (Infundibular)	367	0.9%
AVC (AVSD), Intermediate (transitional)	361	0.9%
VSD, Type 4 (Muscular)	359	0.9%
DORV, TGA type	353	0.9%
VSD, Type 3 (Inlet) (AV canal type)	335	0.8%
Single ventricle, Unbalanced AV canal	330	0.8%
Mitral regurgitation	313	0.8%
Pulmonary artery stenosis, Branch, Central (within the hilar bifurcation)	306	0.7%
TOF, AVC (AVSD)	292	0.7%
Aortic arch hypoplasia	287	0.7%
Coronary artery anomaly, Anomalous pulmonary origin (includes ALCAPA)	269	0.7%
Pulmonary stenosis, Valvar	268	0.7%
Pericardial effusion	257	0.6%
Arrhythmia, Heart block, Acquired	253	0.6%



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Table 3: Primary procedure, 35 Most Frequent for Infants, Last 4 Years (Jan 2014 - Dec 2017)

Primary Procedure	STS		
	N	% of All	% Mort.
VSD repair, Patch	5,389	13.8%	0.6%
AVC (AVSD) repair, Complete (CAVSD)	3,042	7.8%	2.5%
Delayed sternal closure	2,889	7.4%	0.1%
Bidirectional cavopulmonary anastomosis (BDCPA) (bidirectional Glenn)	2,492	6.4%	1.7%
TOF repair, Ventriculotomy, Transanular patch	1,999	5.1%	1.6%
Mediastinal exploration	1,345	3.4%	0.5%
Superior Cavopulmonary anastomosis(es) + PA reconstruction	1,207	3.1%	1.7%
TOF repair, Ventriculotomy, Nontransanular patch	1,186	3.0%	1.1%
TOF repair, No ventriculotomy	1,010	2.6%	0.3%
PA banding (PAB)	997	2.6%	6.0%
PDA closure, Surgical	968	2.5%	4.4%
Coarctation repair, End to end, Extended	735	1.9%	1.1%
Pacemaker implantation, Permanent	689	1.8%	1.2%
Vascular ring repair	680	1.7%	0.4%
RVOT procedure	671	1.7%	1.5%
Aortic arch repair	603	1.5%	3.8%
Shunt, Systemic to pulmonary, Modified Blalock-Taussig Shunt (MBTS)	593	1.5%	6.4%
DORV, Intraventricular tunnel repair	518	1.3%	3.3%
PA, reconstruction (plasty), Branch, Central (within the hilar bifurcation)	473	1.2%	2.3%
Transplant, Heart	470	1.2%	3.4%
Valvuloplasty, Mitral	450	1.2%	3.1%
TAPVC repair	392	1.0%	2.6%
Bilateral bidirectional cavopulmonary anastomosis (BBDCPA) (bilateral bidirectional Glenn)	362	0.9%	2.2%
Shunt, Systemic to pulmonary, Central (shunt from aorta)	351	0.9%	7.7%
Pulmonary venous stenosis repair	345	0.9%	9.9%
Valvuloplasty, Pulmonic	302	0.8%	2.0%
VSD repair, Primary closure	284	0.7%	0.4%
Coarctation repair, End to end	281	0.7%	0.7%
AVC (AVSD) repair, Intermediate (Transitional)	261	0.7%	1.1%
TOF repair, RV-PA conduit	246	0.6%	3.7%
Conduit placement, RV to PA	241	0.6%	2.9%
HemiFontan	235	0.6%	0.9%
Norwood procedure	230	0.6%	7.8%
Anomalous origin of coronary artery from pulmonary artery repair	228	0.6%	4.8%
ASD repair, Patch	220	0.6%	1.4%