



**STS Congenital Heart Surgery Data Summary  
Infants**



**STS Period Ending 06/30/2016**

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

	STS	
	Last 1 Year Jul 2015 - Jun 2016	Last 4 Years Jul 2012 - Jun 2016
<b>Number of Operations/Patients</b>		
Operations in Analysis <sup>1</sup>	9,859	39,438
Patients in Analysis <sup>2</sup>	7,994	32,196
<b>Operative Mortality<sup>3</sup></b>		
Number of Mortalities	200	839
Number Eligible	7,369	30,019
Mortality Percent	2.7%	2.8%
Mortality 95% CI	(2.4 , 3.1)	(2.6 , 3.0)

<sup>1</sup>Analysis includes only operations classified as "CPB" or "No CPB, Cardiovascular"

<sup>2</sup>Patient Numbers represent distinct patient admissions

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

<sup>4</sup>Excludes procedures for which a STAT Mortality Category is not available



STS Congenital Heart Surgery Executive Summary  
Infants

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**Table 2: Primary diagnosis, 35 Most Frequent for Infants, Last 4 Years (Jul 2012 - Jun 2016)**

Primary Diagnosis	STS	
	N	% of All
VSD, Type 2 (Perimembranous) (Paramembranous) (Conoventricular)	5,254	13.3%
TOF, Pulmonary stenosis	3,357	8.5%
AVC (AVSD), Complete (CAVSD)	3,308	8.4%
Patent ductus arteriosus	2,646	6.7%
Hypoplastic left heart syndrome (HLHS)	2,271	5.8%
Cardiac, Other	1,252	3.2%
Open sternum with open skin (includes membrane placed to close skin)	1,204	3.1%
Coarctation of aorta	1,147	2.9%
TOF	897	2.3%
Single ventricle, Tricuspid atresia	811	2.1%
Vascular ring	658	1.7%
Pulmonary atresia, VSD (Including TOF, PA)	648	1.6%
Miscellaneous, Other	551	1.4%
Single ventricle, DILV	534	1.4%
Pulmonary atresia, IVS	508	1.3%
DORV, TOF type	478	1.2%
Pulmonary atresia, VSD-MAPCA	455	1.2%
VSD, Multiple	411	1.0%
ASD, Secundum	400	1.0%
Single ventricle, Heterotaxia syndrome	389	1.0%
AVC (AVSD), Intermediate (transitional)	379	1.0%
DORV, VSD type	352	0.9%
VSD, Type 4 (Muscular)	338	0.9%
DORV, TGA type	336	0.9%
VSD, Type 1 (Subarterial) (Supracristal) (Conal septal defect) (Infundibular)	335	0.8%
Single ventricle, Unbalanced AV canal	320	0.8%
VSD, Type 3 (Inlet) (AV canal type)	309	0.8%
Mitral regurgitation	285	0.7%
Pulmonary artery stenosis, Branch, Central (within the hilar bifurcation)	282	0.7%
Coronary artery anomaly, Anomalous pulmonary origin (includes ALCAPA)	281	0.7%
TOF, AVC (AVSD)	261	0.7%
Pulmonary stenosis, Valvar	251	0.6%
Aortic arch hypoplasia	247	0.6%
Pericardial effusion	245	0.6%
AVC (AVSD), Partial (incomplete) (PAVSD) (ASD, primum)	244	0.6%



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Duke Clinical Research Institute

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**Table 3: Primary procedure, 35 Most Frequent for Infants, Last 4 Years (Jul 2012 - Jun 2016)**

Primary Procedure	N	STS	
		% of All	% Mort.
VSD repair, Patch	5,129	13.8%	0.7%
AVC (AVSD) repair, Complete (CAVSD)	2,913	7.9%	2.9%
Delayed sternal closure	2,572	6.9%	0.3%
Bidirectional cavopulmonary anastomosis (BDCPA) (bidirectional Glenn)	2,551	6.9%	2.4%
TOF repair, Ventriculotomy, Transanular patch	1,880	5.1%	1.3%
Mediastinal exploration	1,247	3.4%	0.5%
TOF repair, Ventriculotomy, Nontransanular patch	1,078	2.9%	1.0%
Superior Cavopulmonary anastomosis(es) + PA reconstruction	1,078	2.9%	1.6%
TOF repair, No ventriculotomy	987	2.7%	0.3%
PDA closure, Surgical	966	2.6%	2.7%
PA banding (PAB)	916	2.5%	6.7%
Coarctation repair, End to end, Extended	680	1.8%	1.2%
RVOT procedure	673	1.8%	1.3%
Shunt, Systemic to pulmonary, Modified Blalock-Taussig Shunt (MBTS)	607	1.6%	4.6%
Pacemaker implantation, Permanent	600	1.6%	1.7%
Vascular ring repair	589	1.6%	0.2%
Aortic arch repair	524	1.4%	4.0%
DORV, Intraventricular tunnel repair	489	1.3%	3.5%
Transplant, Heart	442	1.2%	3.6%
Valvuloplasty, Mitral	423	1.1%	2.1%
PA, reconstruction (plasty), Branch, Central (within the hilar bifurcation)	409	1.1%	2.7%
TAPVC repair	401	1.1%	2.5%
Bilateral bidirectional cavopulmonary anastomosis (BBDCPA) (bilateral bidirectional Glenn)	381	1.0%	2.4%
Shunt, Systemic to pulmonary, Central (shunt from aorta)	311	0.8%	9.3%
Pulmonary venous stenosis repair	299	0.8%	10.7%
VSD repair, Primary closure	292	0.8%	0.7%
Coarctation repair, End to end	290	0.8%	1.0%
Valvuloplasty, Pulmonic	281	0.8%	0.7%
HemiFontan	280	0.8%	1.1%
AVC (AVSD) repair, Intermediate (Transitional)	268	0.7%	0.7%
Anomalous origin of coronary artery from pulmonary artery repair	242	0.7%	3.3%
ASD repair, Patch	239	0.6%	1.3%
Conduit placement, RV to PA	238	0.6%	3.4%
Sternotomy wound drainage	232	0.6%	0.9%
TOF repair, RV-PA conduit	209	0.6%	4.3%