



**STS Congenital Heart Surgery Data Summary
Infants**

STS Period Ending 12/31/2016

Table 1: Infants 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	10,327	40,349
Patients in Analysis ²	8,268	32,815
Operative Mortality³		
Number of Mortalities	201	856
Number Eligible	7,723	30,868
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



**STS Congenital Heart Surgery Data Summary
Infants**

Duke Clinical Research Institute

STS Period Ending 12/31/2016

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

Primary Diagnosis	STS	
	N	% of All
VSD, Type 2 (Perimembranous) (Paramembranous) (Conoventricular)	5,350	13.3%
TOF, Pulmonary stenosis	3,411	8.5%
AVC (AVSD), Complete (CAVSD)	3,345	8.3%
Patent ductus arteriosus	2,736	6.8%
Hypoplastic left heart syndrome (HLHS)	2,284	5.7%
Open sternum with open skin (includes membrane placed to close skin)	1,542	3.8%
Coarctation of aorta	1,176	2.9%
Cardiac, Other	1,090	2.7%
TOF	858	2.1%
Single ventricle, Tricuspid atresia	824	2.0%
Vascular ring	673	1.7%
Pulmonary atresia, VSD (Including TOF, PA)	665	1.6%
Miscellaneous, Other	573	1.4%
Single ventricle, DILV	553	1.4%
Pulmonary atresia, IVS	529	1.3%
DORV, TOF type	504	1.2%
Pulmonary atresia, VSD-MAPCA	464	1.2%
ASD, Secundum	427	1.1%
VSD, Multiple	426	1.1%
Single ventricle, Heterotaxia syndrome	400	1.0%
AVC (AVSD), Intermediate (transitional)	364	0.9%
DORV, VSD type	362	0.9%
VSD, Type 1 (Subarterial) (Supracristal) (Conal septal defect) (Infundibular)	355	0.9%
VSD, Type 4 (Muscular)	346	0.9%
Single ventricle, Unbalanced AV canal	346	0.9%
DORV, TGA type	337	0.8%
VSD, Type 3 (Inlet) (AV canal type)	335	0.8%
Mitral regurgitation	296	0.7%
Pulmonary artery stenosis, Branch, Central (within the hilar bifurcation)	294	0.7%
Coronary artery anomaly, Anomalous pulmonary origin (includes ALCAPA)	278	0.7%
TOF, AVC (AVSD)	272	0.7%
Aortic arch hypoplasia	267	0.7%
Pericardial effusion	264	0.7%
Pulmonary stenosis, Valvar	249	0.6%
AVC (AVSD), Partial (incomplete) (PAVSD) (ASD, primum)	244	0.6%



**STS Congenital Heart Surgery Data Summary
Infants**

Duke Clinical Research Institute

STS Period Ending 12/31/2016

Table 3: Primary procedure, 35 Most Frequent for Infants, Last 4 Years (Jan 2013 - Dec 2016)

Primary Procedure	STS		
	N	% of All	% Mort.
VSD repair, Patch	5,349	14.0%	0.7%
AVC (AVSD) repair, Complete (CAVSD)	2,983	7.8%	2.7%
Delayed sternal closure	2,731	7.1%	0.2%
Bidirectional cavopulmonary anastomosis (BDCPA) (bidirectional Glenn)	2,600	6.8%	2.1%
TOF repair, Ventriculotomy, Transannular patch	1,925	5.0%	1.4%
Mediastinal exploration	1,313	3.4%	0.5%
Superior Cavopulmonary anastomosis(es) + PA reconstruction	1,125	2.9%	1.8%
TOF repair, Ventriculotomy, Nontransannular patch	1,107	2.9%	1.1%
PDA closure, Surgical	990	2.6%	3.6%
TOF repair, No ventriculotomy	984	2.6%	0.3%
PA banding (PAB)	928	2.4%	6.9%
Coarctation repair, End to end, Extended	709	1.9%	1.3%
RVOT procedure	697	1.8%	1.4%
Pacemaker implantation, Permanent	641	1.7%	1.6%
Vascular ring repair	607	1.6%	0.3%
Shunt, Systemic to pulmonary, Modified Blalock-Taussig Shunt (MBTS)	606	1.6%	5.0%
Aortic arch repair	545	1.4%	4.4%
DORV, Intraventricular tunnel repair	507	1.3%	3.0%
Transplant, Heart	470	1.2%	3.2%
Valvuloplasty, Mitral	442	1.2%	3.2%
PA, reconstruction (plasty), Branch, Central (within the hilar bifurcation)	434	1.1%	2.5%
TAPVC repair	413	1.1%	1.9%
Bilateral bidirectional cavopulmonary anastomosis (BBDCPA) (bilateral bidirectional Glenn)	381	1.0%	2.6%
Shunt, Systemic to pulmonary, Central (shunt from aorta)	329	0.9%	7.0%
Pulmonary venous stenosis repair	318	0.8%	8.2%
VSD repair, Primary closure	301	0.8%	0.7%
Valvuloplasty, Pulmonic	294	0.8%	1.4%
Coarctation repair, End to end	289	0.8%	0.7%
HemiFontan	261	0.7%	1.5%
AVC (AVSD) repair, Intermediate (Transitional)	260	0.7%	0.8%
Anomalous origin of coronary artery from pulmonary artery repair	243	0.6%	3.7%
Conduit placement, RV to PA	243	0.6%	3.7%
ASD repair, Patch	229	0.6%	0.9%
Sternotomy wound drainage	229	0.6%	0.9%
TOF repair, RV-PA conduit	216	0.6%	3.7%