



**STS Congenital Heart Surgery Data Summary
Infants**

STS Period Ending 06/30/2017



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

	STS	
	Last 1 Year Jul 2016 - Jun 2017	Last Four Years Jul 2013 - Jun 2017
Number of Operations/Patients		
Operations in Analysis ¹	10,138	40,771
Patients in Analysis ²	8,042	33,034
Operative Mortality³		
Number of Mortalities	181	809
Number Eligible	7,061	29,410
Mortality Percent	2.6%	2.8%
Mortality (95% CI)	(2.2 , 3.0)	(2.6 , 2.9)

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 06/30/2017

Table 2: Primary diagnosis, 35 Most Frequent for Infants, Last 4 Years (Jul 2013 - Jun 2017)

Primary Diagnosis	STS	
	N	% of All
VSD, Type 2 (Perimembranous) (Paramembranous) (Conoventricular)	5,378	13.2%
TOF, Pulmonary stenosis	3,490	8.6%
AVC (AVSD), Complete (CAVSD)	3,393	8.3%
Patent ductus arteriosus	2,798	6.9%
Hypoplastic left heart syndrome (HLHS)	2,246	5.5%
Open sternum with open skin (includes membrane placed to close skin)	1,834	4.5%
Coarctation of aorta	1,185	2.9%
Cardiac, Other	924	2.3%
TOF	840	2.1%
Single ventricle, Tricuspid atresia	833	2.0%
Vascular ring	721	1.8%
Pulmonary atresia, VSD (Including TOF, PA)	666	1.6%
Single ventricle, DILV	564	1.4%
Miscellaneous, Other	552	1.4%
DORV, TOF type	523	1.3%
Pulmonary atresia, VS	521	1.3%
Pulmonary atresia, VSD-MAPCA	477	1.2%
VSD, Multiple	442	1.1%
ASD, Secundum	412	1.0%
Single ventricle, Heterotaxia syndrome	392	1.0%
VSD, Type 1 (Subarterial) (Supracristal) (Conal septal defect) (Infundibular)	366	0.9%
DORV, VSD type	366	0.9%
AVC (AVSD), Intermediate (transitional)	359	0.9%
VSD, Type 4 (Muscular)	356	0.9%
Single ventricle, Unbalanced AV canal	342	0.8%
DORV, TGA type	338	0.8%
VSD, Type 3 (Inlet) (AV canal type)	337	0.8%
Pulmonary artery stenosis, Branch, Central (within the hilar bifurcation)	302	0.7%
Mitral regurgitation	295	0.7%
TOF, AVC (AVSD)	281	0.7%
Aortic arch hypoplasia	277	0.7%
Coronary artery anomaly, Anomalous pulmonary origin (includes ALCAPA)	275	0.7%
Pulmonary stenosis, Valvar	261	0.6%
Pericardial effusion	261	0.6%
AVC (AVSD), Partial (incomplete) (PAVSD) (ASD, primum)	250	0.6%



STS Congenital Heart Surgery Data Summary
Infants

Duke Clinical Research Institute

STS Period Ending 06/30/2017

Table 3: Primary procedure, 35 Most Frequent for Infants, Last 4 Years (Jul 2013 - Jun 2017)

Primary Procedure	STS		
	N	% of All	% Mort.
VSD repair, Patch	5,089	13.9%	0.6%
AVC (AVSD) repair, Complete (CAVSD)	2,835	7.8%	2.6%
Delayed sternal closure	2,682	7.3%	0.1%
Bidirectional cavopulmonary anastomosis (BDCPA) (bidirectional Glenn)	2,386	6.5%	2.0%
TOF repair, Ventriculotomy, Transannular patch	1,872	5.1%	1.6%
Mediastinal exploration	1,237	3.4%	0.4%
Superior Cavopulmonary anastomosis(es) + PA reconstruction	1,103	3.0%	1.5%
TOF repair, Ventriculotomy, Nontransannular patch	1,088	3.0%	1.0%
PDA closure, Surgical	949	2.6%	4.0%
TOF repair, No ventriculotomy	942	2.6%	0.1%
PA banding (PAB)	925	2.5%	6.2%
Coarctation repair, End to end, Extended	693	1.9%	1.0%
RVOT procedure	648	1.8%	1.7%
Pacemaker implantation, Permanent	645	1.8%	1.4%
Vascular ring repair	625	1.7%	0.3%
Shunt, Systemic to pulmonary, Modified Blalock-Taussig Shunt (MBTS)	570	1.6%	5.6%
Aortic arch repair	537	1.5%	3.5%
DORV, Intraventricular tunnel repair	479	1.3%	2.7%
Transplant, Heart	454	1.2%	3.5%
PA, reconstruction (plasty), Branch, Central (within the hilar bifurcation)	433	1.2%	2.3%
Valvuloplasty, Mitral	420	1.1%	3.6%
TAPVC repair	380	1.0%	2.1%
Bilateral bidirectional cavopulmonary anastomosis (BBDCPA) (bilateral bidirectional Glenn)	353	1.0%	2.0%
Shunt, Systemic to pulmonary, Central (shunt from aorta)	324	0.9%	7.4%
Pulmonary venous stenosis repair	318	0.9%	8.2%
Valvuloplasty, Pulmonic	277	0.8%	2.2%
Coarctation repair, End to end	272	0.7%	0.7%
VSD repair, Primary closure	262	0.7%	0.4%
AVC (AVSD) repair, Intermediate (Transitional)	256	0.7%	0.8%
HemiFontan	238	0.7%	0.8%
TOF repair, RV-PA conduit	231	0.6%	4.8%
Conduit placement, RV to PA	230	0.6%	3.0%
Anomalous origin of coronary artery from pulmonary artery repair	215	0.6%	3.3%
Norwood procedure	210	0.6%	8.6%
ASD repair, Patch	206	0.6%	1.0%