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STS Congenital Heart Surgery Data Summary Adults

U Duke Clinical Research Institute

STS Period Ending 12/31/2018

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

	S	TS
	Last 1 Year Jan 2018 - Dec 2018	Last Four Years Jan 2015 - Dec 2018
Number of Operations/Patients Operations in Analysis ¹ Patients in Analysis ²	2,762 2,601	10,284 9,707
Operative Mortality³ Number of Mortalities Number Eligible Mortality Percent Mortality (95% CI)	33 2,553 1.3% (0.9 , 1.8)	127 9,561 1.3% (1.1 , 1.6)
Analysis instudes only aparetions alogsified as "CDD" as "No CDD. Cordiau		

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 Adults



U Duke Clinical Research Institute

STS Period Ending 12/31/2018

Table 2: Primary diagnosis, 35 Most Frequent for Adults, Last 4 Years (Jan 2015 - Dec 2018)

	S	STS	
Primary Diagnosis	N	% of All	
Pulmonary insufficiency	1,210	11.8%	
Aortic insufficiency	550	5.3%	
Aortic aneurysm (including pseudoaneurysm)	451	4.4%	
ASD, Secundum	450	4.4%	
Arrhythmia, Pacemaker, Indication for replacement	423	4.1%	
Aortic stenosis, Valvar	359	3.5%	
Cardiac, Other	345	3.4%	
Aortic stenosis, Subvalvar	318	3.1%	
Mitral regurgitation	304	3.0%	
Tricuspid regurgitation, non-Ebstein's related	296	2.9%	
Aortic insufficiency and aortic stenosis	284	2.8%	
Ebstein's anomaly	279	2.7%	
ASD, Sinus venosus	259	2.5%	
Conduit failure	258	2.5%	
Partial anomalous pulmonary venous connection (PAPVC)	233	2.3%	
Coronary artery anomaly, Anomalous aortic origin of coronary artery (AAOCA)	207	2.0%	
Endocarditis	178	1.7%	
TOF	164	1.6%	
Pulmonary insufficiency and pulmonary stenosis	162	1.6%	
Cardiomyopathy (including dilated, restrictive, and hypertrophic)	158	1.5%	
Open sternum with open skin (includes membrane placed to close skin)	143	1.4%	
AVC (AVSD), Partial (incomplete) (PAVSD) (ASD, primum)	133	1.3%	
Aortic valve, Other	131	1.3%	
Pulmonary stenosis, Valvar	121	1.2%	
Miscellaneous, Other	114	1.1%	
VSD, Type 2 (Perimembranous) (Paramembranous) (Conoventricular)	108	1.1%	
Arrhythmia	93	0.9%	
Mitral regurgitation and mitral stenosis	87	0.8%	
TOF, Pulmonary stenosis	87	0.8%	
Prosthetic valve failure	86	0.8%	
Arrhythmia, Heart block	85	0.8%	
Single ventricle, Tricuspid atresia	82	0.8%	
Pericardial effusion	77	0.7%	
DCRV	68	0.7%	
Partial anomalous pulmonary venous connection (PAPVC), scimitar	66	0.6%	

STS Congenital Heart Surgery Data Summary Adults

U Duke Clinical Research Institute

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STS Period Ending 12/31/2018

Table 3: Primary procedure, 35 Most Frequent for Adults, Last 4 Years (Jan 2015 - Dec 2018) STS

		\$15		
Primary Procedure	Ν	% of All	% Mort.	
Valve replacement, Pulmonic (PVR)	749	7.4%	0.5%	
Pacemaker procedure	539	5.3%	0.2%	
Valvuloplasty, Tricuspid	454	4.5%	0.9%	
RVOT procedure	448	4.4%	0.7%	
Valve replacement, Mitral (MVR)	337	3.3%	3.9%	
ASD repair, Patch	336	3.3%	0.6%	
Aortic aneurysm repair	323	3.2%	0.3%	
Pacemaker implantation, Permanent	318	3.1%	1.3%	
PA, reconstruction (plasty), Branch, Central (within the hilar bifurcation)	275	2.7%	2.5%	
Valve replacement, Aortic (AVR), Mechanical	259	2.6%	0.4%	
Valve replacement, Aortic (AVR), Bioprosthetic	255	2.5%	0.4%	
Arrhythmia surgery - atrial, Surgical Ablation	241	2.4%	1.2%	
Conduit placement, RV to PA	240	2.4%	1.7%	
Valve replacement, Tricuspid (TVR)	232	2.3%	2.6%	
Mediastinal exploration	227	2.2%	0.0%	
Ebstein's repair	221	2.2%	1.4%	
Aortic root replacement, Valve sparing	217	2.1%	0.5%	
Valvuloplasty, Mitral	215	2.1%	0.5%	
Anomalous aortic origin of coronary artery from aorta (AAOCA) repair	185	1.8%	0.5%	
Transplant, Heart	180	1.8%	6.1%	
Coronary artery bypass	172	1.7%	1.2%	
Delayed sternal closure	166	1.6%	0.6%	
Conduit reoperation	161	1.6%	0.0%	
Aortic stenosis, Subvalvar, Repair, With myectomy for IHSS	149	1.5%	0.7%	
ASD repair, Patch + PAPVC repair	138	1.4%	0.0%	
Aortic root replacement, Mechanical	135	1.3%	0.7%	
PA, reconstruction (plasty), Main (trunk)	132	1.3%	0.8%	
Explantation of pacing system	132	1.3%	0.0%	
Aortic stenosis, Subvalvar, Repair	128	1.3%	0.0%	
Fontan revision or conversion (Re-do Fontan)	127	1.3%	9.4%	
PAPVC repair	127	1.3%	0.0%	
Valvuloplasty, Aortic	122	1.2%	0.0%	
ICD (AICD) implantation	118	1.2%	0.8%	
Aortic arch repair	104	1.0%	2.9%	
Aortic root replacement, Bioprosthetic	94	0.9%	1.1%	
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