

Society of Thoracic
Surgeons

Congenital Heart
Surgery Database
User Group Call

March 23, 2021

A large white circle containing the STS National Database logo. The logo consists of the text "STS National Database" in a bold, sans-serif font, with "STS" in red and "National Database" in blue. Below this, the tagline "Trusted. Transformed. Real-Time." is written in a smaller, blue, sans-serif font.

STS National DatabaseTM
Trusted. Transformed. Real-Time.

- Welcome and Introductions
- STS Update
- IQVIA Update
- User Feedback

AGENDA



STS Updates

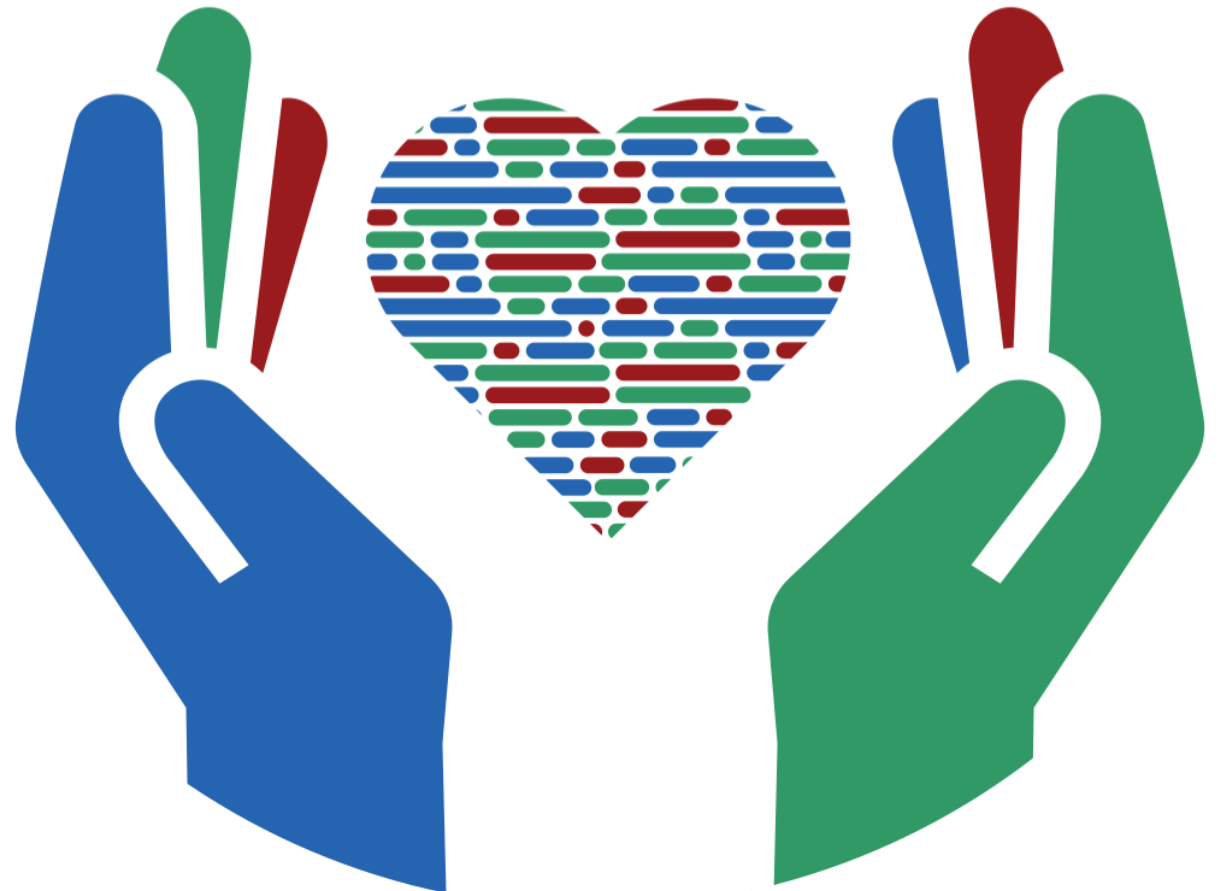
- **2021 Harvest Schedule Posted on STS website**
 - <https://www.sts.org/registries/sts-national-database/harvest-schedule-and-information>
 - **Spring 2021 Harvest close is TBD**
 - Please continue using open submission and cleaning your data
 - STS will give Participants a minimum of two weeks notice prior to harvest close date
 - Includes procedures up through 12/31/2020
- **CHSD Training Manual**
 - March Updates posted
 - April Updates to be posted by 4/2/2021
- **Primary Procedure Mismatch Report**
 - Important first step – review Report Overview (IQVIA Library) to understand its currently functionality
 - Primary Procedure assignment occurs in analysis at DCRI
- **2021 CHSD Audit**
 - Purpose is to examine accuracy, consistency, and completeness of data collected within the STS National Database
 - 10% of participating sites in CHSD selected at random by the Data Warehouse
 - Beginning of April Notification letters to be sent to selected sites
 - CRS will follow up with auditor instructions
 - STS Audit website to be updated with 2021 Audit Information
 - Questions regarding the audit process – contact Emily Conrad, Senior Coordinator, via email at econrad@sts.org
 - <https://www.sts.org/registries-research-center/sts-national-database/sts-national-database-audits>

Have Experience? We Need You!

- **STS Mentorship Program**

- Pairs experienced Data Managers with new Data Managers
- For more information contact Adie Dolan (adolan@sts.org)
- We need both mentors and mentees!!
- <https://www.sts.org/registries-research-center/sts-national-database/sts-national-database-mentorship-program>

MENTOR





IQVIA Update Joe Brower

IQVIA March 2021 Release Update

Items below are currently targeted for the weekend of March 27th.

Primary Procedure Report

STS-6168 – Rule consideration is incorrect where the combo procedure is incorrectly being assigned as primary.

The report is displaying the STS primary procedure as the combination code 2110 (ASD Repair, Patch + PAPCV Repair) where it should display code 1180 (DORV, Intraventricular tunnel repair)

STS-6108 – Primary Procedure Mismatch Report Exception Rule 1 discrepancy.

The exception rule should suggest the highest stat value code of Norwood Procedure (870) instead of Superior Cavopulmonary anastomosis(es) + PA reconstruction (2130).

IQVIA Items Under Investigation

Items below are currently under investigation by the IQVIA development team.

Primary Procedure Report

STS-6239 – CHSD Multiple sites reporting that the Primary Procedure Mismatch Report does not reflect changes to Primary Procedures in cases

STS-6228 – Potential discrepancy with code 1280 - Aortic Arch Repair and code 1660 – DKS, rule consideration should select 1280

CHSD Missing Variable Report

STS-6211 – CHSD ProCmplxCon4Ds3 variable is appearing as missing but should not appear as missing

IQVIA Update

Please note: Submitted tickets are currently under review and the IQVIA support team will follow up on resolution and/or target release confirmation.

The IQVIA Team is currently reviewing items that will be released in an upcoming release. Those items will be posted to the Notifications section.



CHSD Risk Adjusted and Benchmark Report





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[Export Report](#)

Congenital Heart Surgery Database

Participant ID: 12345

Period Ending: Dec 2019

Risk Adjusted & Analytical Reports	Lesion Specific Reports	Anesthesia Reports
Number submitted and in analysis (Table 1)	Atrial Septal Defect (Table 20)	All Operations
Number submitted and in analysis Neonates and Infants (Table 7)	Ventricular Septal Defect (Table 21)	CPB/No CPB Cardiovascular Operations
Number submitted and in analysis Children and Adults (Table 7)	Coarctation of the Aorta (Table 22)	CPB/No CPB Cardiovascular Operations by age group
Model 1 Participant Star Rating (Table 16)	Tetralogy of Fallot Palliation (Table 23)	Time to Initial Extubation by age group
Benchmark Operations: Mortality & Postoperative LOS (Table 18)	Tetralogy of Fallot Repair (Table 24)	Time to Initial Extubation by procedures
Risk Stratified: Mortality & Postoperative LOS (Table 19)	AV Canal (Table 25)	Time to Initial Extubation by procedures cont.
All Patients, Operative Mortality, by STAT Mortality (Figure 7)	Aortic Stenosis and Insufficiency (Table 26)	
Missing Data Summary (Table 29)	Transposition of the Great Arteries (Table 27)	
Extubated in the OR	Hypoplastic Left Heart Syndrome (Table 28)	



Number Submitted And In Analysis, Operative Mortality, and Complexity Information

	Calculation	Participant					STS				
		Yearly				Last Four	Yearly				Last Four
		Jul 16 - Jun 17	Jul 17 - Jun 18	Jul 18 - Jun 19	Jul 19 - Jun 20	Jul 16 - Jun 20	Jul 16 - Jun 17	Jul 17 - Jun 18	Jul 18 - Jun 19	Jul 19 - Jun 20	Jul 16 - Jun 20
Number of Operations/Patients	Operations Submitted	356*	362*	423*	352*	1,493*	41106	40510	40770	40073	162459
	Operations in Analysis	318*	325*	387*	325*	1,355*	32091	31785	31515	31677	127068
	Patients in Analysis	245*	257*	302*	246*	1,050*	26631	26306	26128	25683	104748
Operative Mortality	Number of Mortalities	13*	8*	6*	2*	29*	790	683	681	626	2780
	Number Eligible	238*	242*	292*	240*	1012*	25276	25061	24991	24704	100032
	Mortality Percent	5.5	3.3	2.11	0.8	2.92	3.11	2.71	2.7	2.51	2.81
	Mortality 95% CI	(2.91, 9.21)	(1.41, 6.40)	(0.81, 4.41)	(0.11, 3.10)	(1.92, 4.21)	(2.91, 3.31)	(2.51, 2.91)	(2.51, 2.91)	(2.31, 2.71)	(2.71, 2.91)
STAT Mortality Category 1	Number of Mortalities	1*	0*	0*	0*	1*	40	19	32	27	118
	Number Eligible	85*	67*	96*	75*	323*	7511	7381	7274	7260	29426
	Mortality Percent	1.2	0	0	0	0.31	0.51	0.31	0.4	0.41	0.41
	Mortality 95% CI	(0.00, 6.41)	(0.01, 5.14)	(0.01, 3.81)	(0.01, 4.18)	(0.01, 1.17)	(0.41, 0.71)	(0.21, 0.41)	(0.31, 0.16)	(0.21, 0.51)	(0.31, 0.15)
STAT Mortality Category 2	Number of Mortalities	0*	3*	2*	1*	6*	122	110	132	98	462
	Number Eligible	80*	104*	112*	101*	397*	8117	7886	8151	7851	32005
	Mortality Percent	0	2.91	1.8	1	1.5	1.51	1.41	1.61	1.21	1.41
	Mortality 95% CI	(0.00, 4.51)	(0.61, 8.21)	(0.21, 6.30)	(0.01, 5.14)	(0.61, 3.31)	(1.21, 1.81)	(1.11, 1.71)	(1.41, 1.91)	(1.01, 1.51)	(1.30, 1.61)
STAT Mortality Category 3	Number of Mortalities	0*	0*	0*	1*	1*	72	67	58	55	252
	Number Eligible	14*	17*	22*	27*	80*	2832	2972	2903	2967	11674
	Mortality Percent	0	0	0	3.7	1.32	2.52	2.31	2	1.91	2.21
	Mortality 95% CI	(0.01, 23.21)	(0.01, 19.51)	(0.0, 15.4)	(0.12, 19.02)	(0.01, 6.81)	(2.0, 3.2)	(1.81, 2.91)	(1.51, 2.61)	(1.41, 2.41)	(1.92, 2.42)
STAT Mortality Category 4	Number of Mortalities	10*	4*	1*	0*	15*	365	350	324	311	1350
	Number Eligible	49*	43*	49*	34*	175*	5521	5581	5464	5419	21985
	Mortality Percent	20.4	9.3	2	0	8.61	6.62	6.31	5.91	5.71	6.1
	Mortality 95% CI	(10.21, 34.31)	(2.61, 22.11)	(0.1, 10.9)	(0.01, 10.13)	(4.91, 13.17)	(6.01, 7.31)	(5.61, 6.91)	(5.31, 6.61)	(5.11, 6.14)	(5.81, 6.51)
STAT Mortality Category 5	Number of Mortalities	2*	1*	3*	0*	6*	176	124	115	117	532
	Number Eligible	10*	11*	12*	3*	36*	1062	996	974	940	3972
	Mortality Percent	20	9.11	25	0	16.72	16.61	12.41	11.81	12.41	13.41
	Mortality 95% CI	(2.51, 55.61)	(0.21, 41.13)	(5.5, 57.2)	(0.01, 70.18)	(6.41, 32.18)	(14.41, 18.91)	(10.51, 14.17)	(9.81, 14.01)	(10.41, 14.17)	(12.31, 14.15)



Number Submitted And In Analysis, Operative Mortality, and Complexity Information By Age Group

	Calculation	Participant				STS			
		Children		Adults		Children		Adults	
		Jul 18 - Jun 19	Jul 19 - Jun 20	Jul 18 - Jun 19	Jul 19 - Jun 20	Jul 18 - Jun 19	Jul 19 - Jun 20	Jul 18 - Jun 19	Jul 19 - Jun 20
Number of Operations/ Patients	Operations Submitted	423*	352*	423*	352*	40770	40073	40770	40073
	Operations in Analysis	387*	325*	387*	325*	31515	31677	31515	31677
	Patients in Analysis	302*	246*	302*	246*	26128	25683	26128	25683
Operative Mortality	Number of Mortalities	6*	2*	6*	2*	681	626	681	626
	Number Eligible	292*	240*	292*	240*	24991	24704	24991	24704
	Mortality Percent	2.11	0.8	2.11	0.81	2.71	2.51	2.71	2.51
	Mortality 95% CI	(0.81, 4.41)	(0.11, 3.01)	(0.81, 4.41)	(0.11, 3.01)	(2.51, 2.91)	(2.31, 2.71)	(2.51, 2.91)	(2.31, 2.71)
STAT Mortality Category 1	Number of Mortalities	0*	0*	0*	0*	32	27	32	27
	Number Eligible	96*	75*	96*	75*	7274	7260	7274	7260
	Mortality Percent	0	0	0	0	0.41	0.41	0.41	0.41
	Mortality 95% CI	(0.01, 3.81)	(0.01, 4.18)	(0.01, 3.18)	(0.01, 4.18)	(0.31, 0.61)	(0.21, 0.51)	(0.31, 0.61)	(0.21, 0.51)
STAT Mortality Category 2	Number of Mortalities	2*	1*	2*	1*	132	98	132	98
	Number Eligible	112*	101*	112*	101*	8151	7851	8151	7851
	Mortality Percent	1.81	1	1.81	1	1.61	1.21	1.61	1.21
	Mortality 95% CI	(0.21, 6.31)	(0.01, 5.41)	(0.12, 6.31)	(0.01, 5.41)	(1.41, 1.91)	(1.01, 1.15)	(1.41, 1.91)	(1.01, 1.15)
STAT Mortality Category 3	Number of Mortalities	0*	1*	0*	1*	58	55	58	55
	Number Eligible	22*	27*	22*	27*	2903	2967	2903	2967
	Mortality Percent	0	3.7	0	3.71	2	1.91	2	1.91
	Mortality 95% CI	(0.01, 15.41)	(0.11, 19.01)	(0.01, 15.41)	(0.11, 19.01)	(1.51, 2.61)	(1.41, 2.41)	(1.51, 2.61)	(1.41, 2.41)
STAT Mortality Category 4	Number of Mortalities	1*	0*	1*	0*	324	311	324	311
	Number Eligible	49*	34*	49*	34*	5464	5419	5464	5419
	Mortality Percent	2	0	2	0	5.91	5.71	5.91	5.71
	Mortality 95% CI	(0.11, 10.91)	(0.01, 10.31)	(0.11, 10.19)	(0.01, 10.31)	(5.31, 6.16)	(5.11, 6.41)	(5.31, 6.16)	(5.11, 6.41)
STAT Mortality Category 5	Number of Mortalities	3*	0*	3*	0*	115	117	115	117
	Number Eligible	12*	3*	12*	3*	974	940	974	940
	Mortality Percent	25	0	25	0	11.81	12.41	11.81	12.41
	Mortality 95% CI	(5.51, 57.21)	(0.01, 70.81)	(5.51, 57.21)	(0.01, 70.81)	(9.81, 14.01)	(10.41, 14.71)	(9.81, 14.01)	(10.41, 14.71)

Model 1 - Participant Operative Mortality, Adjusted Operative Mortality and Star Rating, Last 4 Years

Overall Star Rating - Neonates+Infants+Children+Adults



Observed mortality is (1 star - more than expected, 2 star - as expected, 3 star - less than expected) based on your institution's case-mix (make this dynamic)

	STAT Category	# Observed	# Eligible	Observed %	Expected %	AMR (95% CI)	Observed/Expected (95% CI)	STS
Neonates + Infants + Children + Adults	All STAT Mortality Categories	16*	215*	7.4%	7.3%	3 (2.0 , 4.3)	1.09 (0.73 , 1.56)	7.8%
	STAT Mortality Category 1	0*	13*	0%	1.9%	0.3 (0.0 , 1.7)	0.80 (0.02 , 4.41)	2.3%
	STAT Mortality Category 2	1*	40*	2.5%	4.6%	1.4 (0.5 , 3.1)	1.00 (0.37 , 2.16)	3.4%
	STAT Mortality Category 3	1*	40*	2.5%	4.6%	1.3 (0.0 , 7.0)	0.59 (0.01 , 3.20)	3.4%
	STAT Mortality Category 4	1*	40*	2.5%	4.6%	7.8 (4.3 , 12.7)	1.27 (0.70 , 2.07)	3.4%
	STAT Mortality Category 5	1*	40*	2.5%	4.6%	13.9 (5.3 , 27.3)	1.04 (0.40 , 2.05)	3.4%
Neonates + Infants + Children	All STAT Mortality Categories	16*	215*	7.4%	7.3%	3.2 (2.1 , 4.6)	1.10 (0.73 , 1.58)	7.8%
	STAT Mortality Category 1	0*	13*	0%	1.9%	0.3 (0.0 , 1.8)	0.82 (0.02 , 4.56)	2.3%
	STAT Mortality Category 2	1*	40*	2.5%	4.6%	1.5 (0.6 , 3.3)	1.04 (0.38 , 2.23)	3.4%
	STAT Mortality Category 3	1*	40*	2.5%	4.6%	1.3 (0.0 , 7.1)	0.61 (0.02 , 3.28)	3.4%
	STAT Mortality Category 4	1*	40*	2.5%	4.6%	8.1 (4.5 , 13.2)	1.27 (0.71 , 2.07)	3.4%
	STAT Mortality Category 5	1*	40*	2.5%	4.6%	1.27 (0.71 , 2.07)	8.1 (4.5 , 13.2)	3.4%
Neonates + Infants	All STAT Mortality Categories	16*	215*	7.4%	7.3%	4.8 (3.1 , 7.0)	1.08 (0.70 , 1.58)	7.8%
	STAT Mortality Category 1	0*	13*	0%	1.9%	0.7 (0.0 , 4.1)	1.02 (0.03 , 5.57)	2.3%
	STAT Mortality Category 2	1*	40*	2.5%	4.6%	2.5 (0.8 , 5.8)	1.09 (0.36 , 2.50)	3.4%
	STAT Mortality Category 3	1*	40*	2.5%	4.6%	0 (0.0 , 6.3)	0.00 (0.00 , 2.39)	3.4%
	STAT Mortality Category 4	1*	40*	2.5%	4.6%	9.3 (5.1 , 15.4)	1.26 (0.68 , 2.09)	3.4%
	STAT Mortality Category 5	1*	40*	2.5%	4.6%	14.4 (5.5 , 28.4)	1.04 (0.40 , 2.05)	3.4%
Neonates	All STAT Mortality Categories	16*	215*	7.4%	7.3%	8.0 (4.6 , 12.6)	1.01 (0.59 , 1.61)	7.8%
	STAT Mortality Category 1	0*	13*	0%	1.9%	0.0 (0.0 , 30.0)	0.00 (0.00 , 12.87)	2.3%
	STAT Mortality Category 2	1*	40*	2.5%	4.6%	1.8 (0.0 , 9.6)	0.54 (0.01 , 2.87)	3.4%
	STAT Mortality Category 3	1*	40*	2.5%	4.6%	0.0 (0.0 , 16.5)	0.00 (0.00 , 5.64)	3.4%
	STAT Mortality Category 4	1*	40*	2.5%	4.6%	17.7 (6.8 , 33.9)	1.12 (0.52 , 2.03)	3.4%
	STAT Mortality Category 5	1*	40*	2.5%	4.6%	9.1 (4.3 , 16.7)	1.20 (0.46 , 2.30)	3.4%

Benchmark Operations: Overall Aggregate & Participant-Specific Mortality & Postoperative Length of Stay

		Calculation	Off Bypass Coarctation	VSD	TOF	AVC	ASO	ASO+VSD	Glenn/Hemi Fontan	Fontan	Truncus	Norwood
Operative Mortality	Participant	Number of Mortalities	0*	1*	0*	1*	0*	0*	3*	1*	0*	24*
		Number Eligible	33*	99*	68*	22*	27*	8*	59*	58*	8*	115*
		Mortality Rate	0%	1%	0%	4.5%	0%	0%	5.1%	1.7%	0%	16.7%
		Mortality (95% CI)	(0.0-10.6)	(0.0-5.5)	(0.0-5.3)	(0.1-22.8)	(0.0-12.8)	(0.0-36.9)	(1.1-14.1)	(0.0-9.2)	(0.0-36.9)	(4.7-37.4)
	STS Overall	Aggregate Rate (%)	13.9	9.9	12.5	18.7	18.7	23.3	15.1	14.3	36.2	53
		Median Rate (%)	12	9.1	11.7	16.6	17.3	20.4	14.2	13.5	28.7	49.8
		Range (%)	(2.3-27.8)	(2.3-30.6)	(4.7-31.2)	(5.3-51.5)	(5.2-40.0)	(2.0-263.0)	(3.0-51.2)	(4.8-35.8)	(4.0-158.0)	(2.0-149.0)
		Interquartile Range (%)	(8.3-16.5)	(7.4-10.7)	(9.4-15.0)	(12.7-22.6)	(14.1-22.2)	(15.2-29.0)	(10.7-17.7)	(11.1-16.2)	(18.0-45.1)	(41.2-64.4)
	Among Sites with N >= 10	Aggregate Rate (%)	1.2	0.5	1.1	2.1	2.1	4.9	1.9	1	9.7	13.1
		Median Rate (%)	0	0	0	0	0	2.7	1.3	0	7.1	12.4
		Range (%)	(0.0-13.3)	(0.0-3.3)	(0.0-10.0)	(0.0-30.0)	(0.0-11.5)	(0.0-30.0)	(0.0-16.7)	(0.0-11.8)	(0.0-33.3)	(0.0-42.9)
		Interquartile Range (%)	(0.0-1.4)	(0.0-0.4)	(0.0-2.0)	(0.0-4.3)	(0.0-3.9)	(0.0-7.7)	(0.0-3.6)	(0.0-1.4)	(4.8-14.3)	(8.8-18.2)
Postoperative Length of Stay	Participant	Mean	8.3	8.4	8.2	10.8	9.9	17.6	21.5	17.2	14.9	45.8
		Median (days)	7	5	7	7.5	9	11	9	12	15	25.5
		Range (days)	(2.0-31.0)	(2.0-67.0)	(4.0-37.0)	(4.0-32.0)	(6.0-15.0)	(8.0-55.0)	(4.0-329.0)	(5.0-104.0)	(8.0-23.0)	(3.0-296.0)
		Interquartile Range (days)	(4.0-11.0)	(4.0-8.0)	(5.0-9.0)	(6.0-15.0)	(8.0-12.0)	(8.5-19.5)	(6.0-21.0)	(10.0-18.0)	(8.0-22.0)	(14.5-50.0)
	STS Overall	Aggregate (days)	91	112	110	95	69	33	93	93	17	73
		Median (days)	3650	7471	4799	3149	1676	555	4095	3881	238	2562
		Range (days)	40.1	66.7	43.6	33.1	24.3	16.8	44	41.7	14	35.1
		Interquartile Range (days)	(12.0-122.0)	(10.0-229.0)	(10.0-164.0)	(10.0-122.0)	(10.0-67.0)	(10.0-49.0)	(10.0-170.0)	(10.0-165.0)	(10.0-21.0)	(10.0-123.0)
	Among Sites with N >= 10	Aggregate (days)	13.9	10	12.5	18.6	18.9	22.5	15.1	14.3	33.3	52.8
		Median (days)	12.9	9.2	11.7	16.7	18.4	21	14.4	13.7	27.9	49.7
		Range (days)	(3.7-22.5)	(3.6-30.6)	(4.7-31.2)	(5.8-47.4)	(5.2-39.0)	(7.8-50.0)	(4.4-51.2)	(4.8-35.8)	(15.5-56.1)	(26.6-134.1)
		Interquartile Range (%)	(9.1-16.9)	(7.6-11.2)	(9.5-14.6)	(13.0-22.6)	(14.9-22.8)	(17.5-25.5)	(11.3-17.2)	(12.0-16.3)	(26.4-42.1)	(43.0-59.9)
Extubated in OR	Participant	Yes (N / %)	24 / 2.1%*	25 / 1.9%*	92 / 4.2%*	8 / 5.4%*	29 / 2.6%*	19 / 1.4%*	93 / 4.3%*	12 / 8.1%*	18 / 1.6%*	26 / 2%*
		No (N / %)	142 / 12.5%*	155 / 11.8%*	317 / 14.5%*	17 / 11.5%*	20 / 1.8%*	9 / 0.7%*	101 / 4.6%*	17 / 11.5%*	7 / 0.6%*	11 / 0.8%*
		Missing (N / %)	1 / 0.1%*	0 / 0%*	2 / 0.1%*	0 / 0%*	10 / 0.9%*	9 / 0.7%*	43 / 2%*	3 / 2%*	2 / 0.2%*	0 / 0%*
	STS Overall	Yes (N / %)	58 / 2.7%	2 / 1.4%	8 / 0.7%	11 / 0.8%	56 / 2.6%	2 / 1.4%	6 / 0.5%	8 / 0.6%	21 / 1%	2 / 1.4%
		No (N / %)	58 / 2.7%	8 / 5.4%	1 / 0.1%	1 / 0.1%	4 / 0.2%	1 / 0.7%	3 / 0.3%	1 / 0.1%	7 / 0.3%	0 / 0%
		Missing (N / %)	22 / 7.11%	25 / 2.52%	14 / 3.40%	6 / 1.14%	14 / 1.33%	25 / 3.12%	10 / 3.26%	5 / 1.41%	22 / 7.12%	25 / 3.71%
Time to Initial Extubation	Participant	Median (time in mins)	7	5	7	7.5	9	11	9	12	15	25.5
		Range (time in mins)	(2.0-31.0)	(2.0-67.0)	(4.0-37.0)	(4.0-32.0)	(6.0-15.0)	(8.0-55.0)	(4.0-329.0)	(5.0-104.0)	(8.0-23.0)	(3.0-296.0)
		Interquartile Range (time...	(4.0-11.0)	(4.0-8.0)	(5.0-9.0)	(6.0-15.0)	(8.0-12.0)	(8.5-19.5)	(6.0-21.0)	(10.0-18.0)	(8.0-22.0)	(14.5-50.0)
	STS Overall	Median (time in mins)	3650	7471	4799	3149	1676	555	4095	3881	238	2562
		Range (time in mins)	40.1	66.7	43.6	33.1	24.3	16.8	44	41.7	14	35.1
		Interquartile Range (time...	(12.0-122.0)	(10.0-229.0)	(10.0-164.0)	(10.0-122.0)	(10.0-67.0)	(10.0-49.0)	(10.0-170.0)	(10.0-165.0)	(10.0-21.0)	(10.0-123.0)
Reintubated for Respiratory Failure	Participant	Yes (N / %)	13 / 0.6%*	1 / 0.7%*	3 / 0.3%*	3 / 0.2%*	11 / 0.5%*	1 / 0.7%*	4 / 6.71%*	39 / 3.21%*	20 / 4.21%*	5 / 1.31%*
		All Other (N / %)	13 / 0.6%*	1 / 0.7%*	3 / 0.3%*	3 / 0.2%*	11 / 0.5%*	1 / 0.7%*	4 / 6.71%*	39 / 3.21%*	20 / 4.21%*	5 / 1.31%*
	STS Overall	Yes (N / %)	13 / 0.6%*	1 / 0.7%*	3 / 0.3%*	3 / 0.2%*	11 / 0.5%*	1 / 0.7%*	4 / 6.71%*	39 / 3.21%*	20 / 4.21%*	5 / 1.31%*
		All Other (N / %)	13 / 0.6%*	1 / 0.7%*	3 / 0.3%*	3 / 0.2%*	11 / 0.5%*	1 / 0.7%*	4 / 6.71%*	39 / 3.21%*	20 / 4.21%*	5 / 1.31%*
Sample Size	STS Overall	Number of Participants	3768	7506	4829	3254	1898	101	115	117	100	103
		Number of Operations	117	116	116	107	1898	854	4199	3981	567	2689
		Average Sample Size	32.8	64.2	41.6	28.1	17.7	8.5	36.5	34	5.7	26.1
		Range of Sample Size	(1.0-122.0)	(2.0-229.0)	(2.0-164.0)	(1.0-122.0)	(1.0-67.0)	(1.0-49.0)	(1.0-170.0)	(1.0-165.0)	(1.0-21.0)	(1.0-123.0)
	Among	Number of Participants	93	112	110	91	33	73	33	73	33	73

Risk Stratified Operations: Overall Aggregate and Participant-Specific Mortality and Postoperative Length of Stay

		Calculation	STAT Mortality Category 1	STAT Mortality Category 2	STAT Mortality Category 3	STAT Mortality Category 4	STAT Mortality Category 5
Operative Mortality	Participant	Number of Mortalities	0*	0*	1*	1*	3*
		Number Eligible	27*	8*	22*	58*	59*
		Mortality Rate	0%	0%	4.5%	1.7%	5.1%
		Mortality (95% CI)	(0.0-12.8)	(0.0-36.9)	(0.1-22.8)	(0.0-9.2)	(1.1-14.1)
	STS Overall	Aggregate Rate (%)	18.7	23.3	18.7	14.3	15.1
		Median Rate (%)	17.3	20.4	16.6	13.5	14.2
		Range (%)	(5.2-40.0)	(2.0-263.0)	(5.3-51.5)	(4.8-35.8)	(3.0-51.2)
		Interquartile Range (%)	(14.1-22.2)	(15.2-29.0)	(12.7-22.6)	(11.1-16.2)	(10.7-17.7)
	Among Sites with N >= 10	Aggregate Rate (%)	2.1	4.9	2.1	1	1.9
		Median Rate (%)	0	2.7	0	0	1.3
		Range (%)	(0.0-11.5)	(0.0-30.0)	(0.0-30.0)	(0.0-11.8)	(0.0-16.7)
		Interquartile Range (%)	(0.0-3.9)	(0.0-7.7)	(0.0-4.3)	(0.0-1.4)	(0.0-3.6)
Postoperative Length of Stay	Participant	Mean	9.9	17.6	10.8	17.2	21.5
		Median (days)	9	11	7.5	12	9
		Range (days)	(6.0-15.0)	(8.0-55.0)	(4.0-32.0)	(5.0-104.0)	(4.0-329.0)
		Interquartile Range (days)	(8.0-12.0)	(8.5-19.5)	(6.0-15.0)	(10.0-18.0)	(6.0-21.0)
	STS Overall	Aggregate (days)	69	33	95	93	93
		Median (days)	1676	555	3149	3881	4095
		Range (days)	24.3	16.8	33.1	41.7	44
		Interquartile Range (days)	(10.0-67.0)	(10.0-49.0)	(10.0-122.0)	(10.0-165.0)	(10.0-170.0)
	Among Sites with N >= 10	Aggregate (days)	18.9	22.5	18.6	14.3	15.1
		Median (days)	18.4	21	16.7	13.7	14.4
		Range (days)	(5.2-39.0)	(7.8-50.0)	(5.8-47.4)	(4.8-35.8)	(4.4-51.2)
		Interquartile Range (%)	(14.9-22.8)	(17.5-25.5)	(13.0-22.6)	(12.0-16.3)	(11.3-17.2)
Extubated in OR	Participant	Yes (N / %)	58 / 2.7%*	2 / 1.4%*	8 / 0.7%*	11 / 0.8%*	56 / 2.6%*
		No (N / %)	142 / 12.5%*	155 / 11.8%*	317 / 14.5%*	17 / 11.5%*	20 / 1.8%*
		Missing (N / %)	6 / 0.5%*	8 / 0.6%*	21 / 1%*	2 / 1.4%*	17 / 11.5%*
Time to Initial Extubation	Participant	Median (time in mins)	7	5	7	7.5	9
		Range (time in mins)	(2.0-31.0)	(2.0-67.0)	(4.0-37.0)	(4.0-32.0)	(6.0-15.0)
		Interquartile Range (time in mins)	(4.0-11.0)	(4.0-8.0)	(5.0-9.0)	(6.0-15.0)	(8.0-12.0)
	STS Overall	Median (time in mins)	3650	7471	4799	3149	1676
		Range (time in mins)	40.1	66.7	43.6	33.1	24.3
		Interquartile Range (time in mins)	(12.0-122.0)	(10.0-229.0)	(10.0-164.0)	(10.0-122.0)	(10.0-67.0)
Reintubated for Respiratory Failure	Participant	Reintubated (N / %)	20 / 1.8%*	9 / 0.7%*	101 / 4.6%*	17 / 11.5%*	7 / 0.6%*
		All Other (N / %)	20 / 1.8%*	9 / 0.7%*	101 / 4.6%*	17 / 11.5%*	7 / 0.6%*
	STS Overall	Reintubated (N / %)	20 / 1.8%*	9 / 0.7%*	101 / 4.6%*	17 / 11.5%*	7 / 0.6%*
		All Other (N / %)	20 / 1.8%*	9 / 0.7%*	101 / 4.6%*	17 / 11.5%*	7 / 0.6%*
Sample Size	STS Overall	Number of Operations	1898	854	3254	3981	4199
		Number of Participants	107	101	116	117	115
		Average Sample Size	17.7	8.5	28.1	34	36.5
		Range of Sample Size	(1.0-67.0)	(1.0-49.0)	(1.0-122.0)	(1.0-165.0)	(1.0-170.0)
	Among Sites	Number of Operations	1676	555	3149	3881	4095
		Number of Participants	69	33	95	93	93

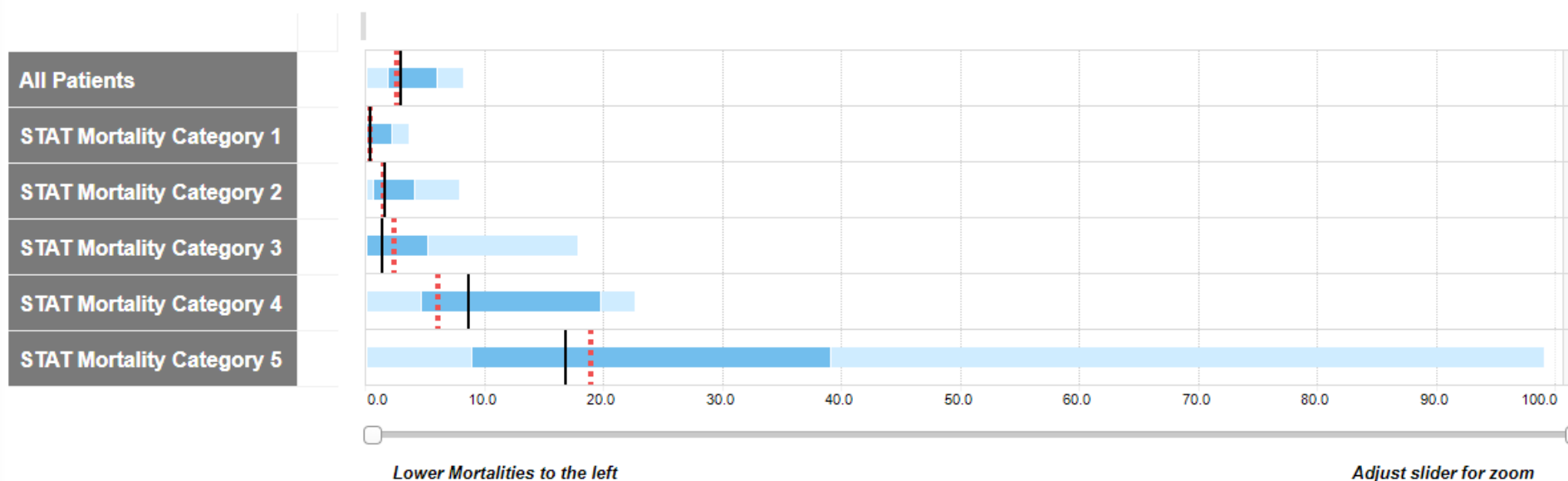


All Patients, Operative Mortality, by STAT Mortality, Last 4 Years

	Participant		STS				
	Score	95% CI	Score	10th	50th	90th	(Min-Max)
All Patients	2.92%	(1.91 - 4.11)	2.71%	2.01%	2.71%	3.31%	(0 - 6.20)
STAT Mortality Category 1	0.31%	(0.11 - 2.11)	0.42%	0.11%	0.22%	0.61%	(0 - 3.50)
STAT Mortality Category 2	1.52%	(0.71 - 3.44)	1.51%	0.81%	1.44%	2.02%	(0 - 7.10)
STAT Mortality Category 3	1.31%	(0.11 - 5.11)	2.42%	0.33%	1.88%	3.51%	(0 - 17.60)
STAT Mortality Category 4	8.61%	(4.66 - 15.11)	6.11%	4.44%	5.88%	7.77%	(0 - 17.90)
STAT Mortality Category 5	16.71%	(8.99 - 30.11)	1.91%	9.22%	14.31%	20.66%	(0 - 90)

Legend:

..... STS — My Site ● Min - Max ● 95% CI ○ Out of Range





The Society
of Thoracic
Surgeons

Participant: 12345678
STS Period Ending Dec 2019

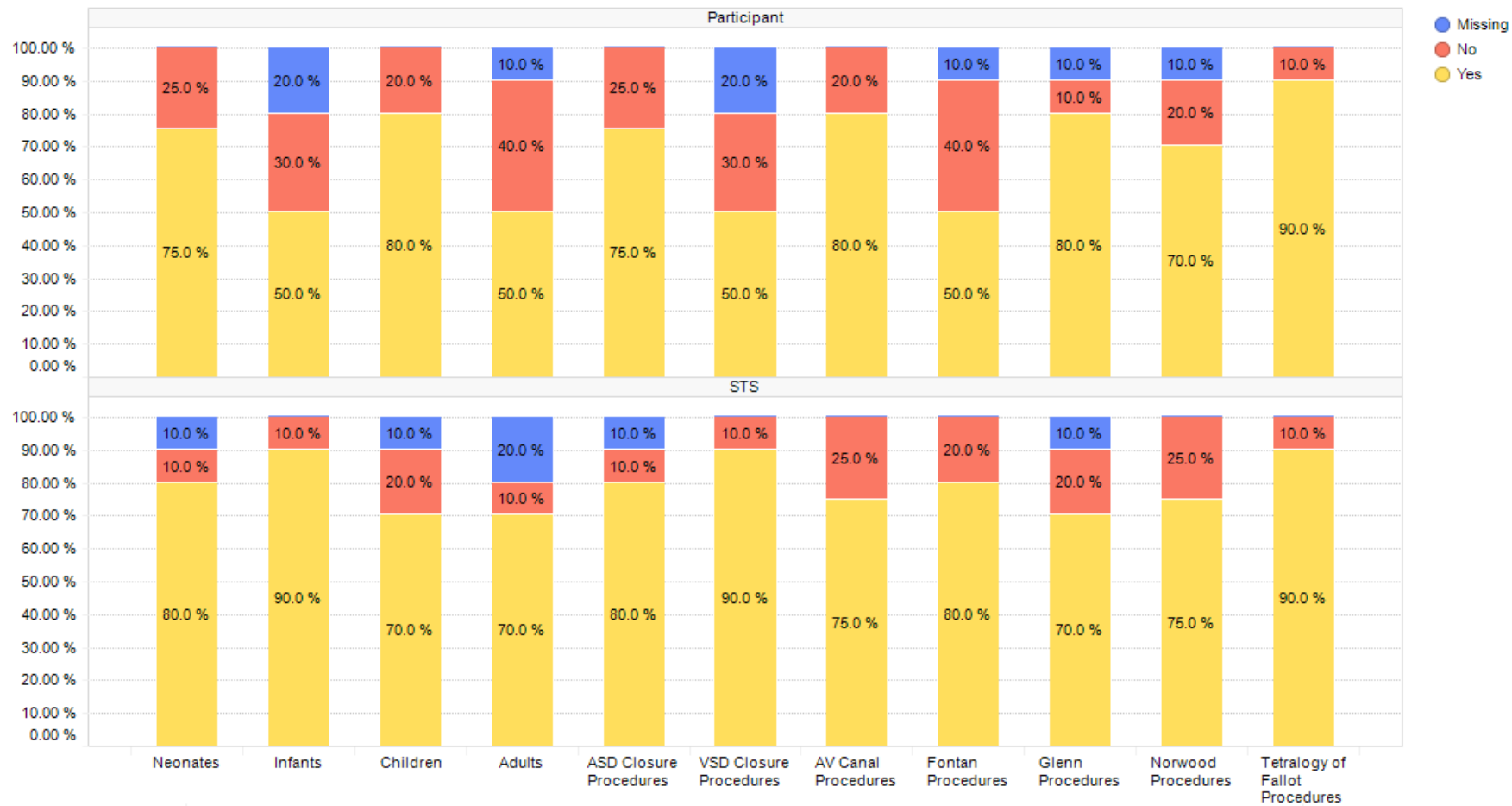


Missing Data Summary

		Participant		STS	
		Last 1 Year	Last 4 Years	Last 1 Year	Last 4 Years
		Jul 2019 - Jun 20	Jul 16 - Jun 20	Jul 2019 - Jun 20	Jul 16 - Jun 20
Missing 30-day status	N / %	5 / 0%	0 / 0%	419 / 1.3%	789 / 2.5%
Missing Database Discharge Status ³	N / %	0 / 0%	5 / 0.4%	789 / 2.5%	25 / 0.3%
Missing or Unknown 30-day status ³	N / %	0 / 0%	0 / 0%	23 / 0.1%	84 / 0.3%
No Chromosomal Abnormalities ²	N / %	0 / 0%	0 / 0%	21 / 0.2%	0 / 0%
No complication information	N / %	0 / 1.5%	0 / 0%	37 / 0.3%	3 / 0%
No NonCard. Anatomic Abnormalities ²	N / %	0 / 0%	0 / 0%	2 / 0%	0 / 0%
No Premature Birth ⁵	N / %	0 / 0%	0 / 0%	84 / 0.3%	/
No Preop Factors ²	N / %	0 / 0%	0 / 0%	28 / 0.2%	10 / 0%
No Syndromes ²	N / %	0 / 0%	0 / 0%	27 / 0.2%	0 / 0%
Unknown 30-day status	N / %	0 / 0%	0 / 0%	61 / 0.2%	419 / 1.3%



Extubated in the OR



Atrial Septal Defect (ASD), Last 4 Years

			Participant	STS
Demographics	Incidence	N / %	53 / 73.61%*	4,389 / 80.51%
	Age (years)	Mean	8.4*	8.4
		Median (Q1, Q3)	5.1 (3.2, 14.6)*	4.9 (3.0, 10.2)
	Gender, Female	N / %	189 / 64.22%*	3,309 / 61.12%
Preoperative Risk Factors	Risk Factors	N / %	0 / 0.0%*	5 / 2.12%
Non-Cardiac Abnormalities	Abnormalities	N / %	2 / 2.81%*	272 / 5.51%
Closure Information	Device	N / %	6 / 11.3%*	9 / 9.12%
	Partial Closure	N / %	3 / 2.13%*	5 / 5.41%
	Patch	N / %	47 / 89.11%*	3,438 / 78.12%
	Primary Closure	N / %	8 / 11.31%*	216 / 20.12%
	Septation	N / %	2 / 2.11%*	3 / 5.31%
Operative Information	CPB Time (minutes)	Mean	83.8*	66.9
		Median (Q1, Q3)	79.5 (71.0, 96.0)*	63.0 (48.0, 81.0)
	Cross-Clamp Time (minutes)	Mean	54.5*	45.5
		Median (Q1, Q3)	50.5 (46.0, 64.0)*	37.0 (27.0, 50.0)
Outcomes	Operative Mortality	N / %	2 / 2.10%*	10 / 5.12%
	Post-op Length of Stay (days)	Mean	3.8*	4.4
		Median (Q1, Q3)	4.0 (3.0, 4.0)*	4.0 (3.0, 4.0)
Complications	Acute Renal Failure req. Dialysis at Discharge	N / %	2 / 0.21%*	14 / 1.33%
	Acute Renal Failure req. Temp. Dialysis	N / %	1 / 1.31%*	25 / 3.12%
	Acute Renal Failure req. Temp. Hemofiltration	N / %	3 / 2.11%*	10 / 3.26%
	Arrhythmia req. Permanent Pacemaker	N / %	4 / 0.21%*	22 / 7.11%
	Arrhythmia req. Temporary Pacemaker	N / %	1 / 0.61%*	25 / 2.52%
	Cardiac Arrest	N / %	3 / 2.12%*	20 / 4.21%
	Mechanical Circulatory Support	N / %	0 / 0.00%*	5 / 1.31%
	Mediastinitis	N / %	2 / 0.21%*	22 / 7.12%
	Neurological Deficit	N / %	1 / 1.42%*	25 / 3.71%
	Reoperation for Bleeding	N / %	0 / 0.00%*	5 / 1.41%
	Sternum Left Open, Planned	N / %	0 / 0.00%*	14 / 3.40%
	Sternum Left Open, Unplanned	N / %	0 / 0.00%*	6 / 1.14%
	Unplanned Cardiac Reoperation	N / %	3 / 0.21%*	4 / 6.71%
	Unplanned Non-Cardiac Reoperation	N / %	0 / 0.00%*	39 / 3.21%

Tetralogy of Fallot (TOF) Repair, Last 4 Years

				Participant	STS
Demographics	Incidence	N / %	No ventriculotomy	1 / 1.4%*	1134 / 5.2%
			Ventriculotomy	27 / 37.5%*	1312 / 10.5%
			Ventriculotomy, Transannular patch	38 / 52.8%*	2187 / 15.1%
			RV-PA conduit	4 / 5.6%*	148 / 1.2%
	Age (years)	Mean	No ventriculotomy	0.3*	1
			Ventriculotomy	0.9*	0.8
			Ventriculotomy, Transannular patch	0.7*	0.7
			RV-PA conduit	0.8*	2.8
		Median (Q1, Q3)	No ventriculotomy	0.3 (0.3, 0.3)*	0.4 (0.3, 0.5)
			Ventriculotomy	0.5 (0.4, 0.6)*	0.4 (0.3, 0.6)
			Ventriculotomy, Transannular patch	0.3 (0.1, 0.5)*	0.3 (0.2, 0.5)
			RV-PA conduit	0.7 (0.3, 1.2)*	0.6 (0.3, 1.2)
	Gender, Female	N / %	No ventriculotomy	1 / 100%*	474 / 41.8%
			Ventriculotomy	8 / 29.6%*	527 / 40.2%
			Ventriculotomy, Transannular patch	21 / 55.3%*	943 / 43.1%
			RV-PA conduit	2 / 50%*	81 / 54.7%
Preoperative Risk Factors	Risk Factors	N / %	Mechanical ventilatory support	1 / 100%*	313 / 6%
			Neurological deficit	0 / 29.6%*	138 / 2.6%
			Seizures	1 / 55.3%*	83 / 1.6%
			Bleeding disorder	0 / 50%*	78 / 1.5%
			Tracheostomy	0 / 0%*	37 / 0.7%
Non-Cardiac Abnormalities	Abnormalities	N / %	Down syndrome	6 / 8.3%*	485 / 9.3%
			DiGeorge syndrome	8 / 11.1%*	347 / 6.7%
			Other chromosomal/syndromic	2 / 2.8%*	339 / 6.5%
Features of Repair	DHCA	N / %	No ventriculotomy	0 / 0%*	15 / 1.3%
			Ventriculotomy	0 / 0%*	32 / 2.4%
			Ventriculotomy, Transannular patch	0 / 0%*	57 / 2.6%
			RV-PA conduit	0 / 0%*	6 / 4.1%
	Shunt Ligation and Takedown	N / %	No ventriculotomy	0 / 0%*	28 / 2.5%
			Ventriculotomy	0 / 0%*	41 / 3.1%
			Ventriculotomy, Transannular patch	0 / 0%*	124 / 5.7%
			RV-PA conduit	1 / 25%*	28 / 18.9%
Operative Information	CPB Time (minutes)	Mean	No ventriculotomy	93*	110.1
			Ventriculotomy	94.4*	110.1
			Ventriculotomy, Transannular patch	95.3*	123.6
			RV-PA conduit	163*	161.3
		Median (Q1, Q3)	No ventriculotomy	93.0 (93.0, 93.0)*	100.0 (78.0, 131.5)
			Ventriculotomy	82.0 (71.0, 130.0)*	104.0 (82.0, 132.0)
			Ventriculotomy, Transannular patch	93.0 (81.0, 104.0)*	114.0 (90.0, 145.0)
			RV-PA conduit	159.5 (142.5, 183.5)*	147.0 (121.0, 191.0)
	Cross-Clamp Time (minutes)	Mean	No ventriculotomy	68*	75.1
			Ventriculotomy	65.1*	74.6
			Ventriculotomy, Transannular patch	61.1*	81.3
			RV-PA conduit	104.0*	89.7



[See Details](#)

STS Congenital Anesthesiology Report, All Operations

# of Records		N	# of Records	Participant		STS	
				Jul 19 - Jun 20	Jul 16 - Jun 20	Jul 19 - Jun 20	Jul 16 - Jun 20
				281*	1,277*	20,263	86,228
Type of Procedure	Cardiovascular Surgery	N / %	Cardiovascular Surgery	272 / 96.91%*	1,236 / 96.91%*	17,352 / 85.91%	70,710 / 82.91%
			CPB Cardiovascular	212 / 75.51%*	880 / 75.51%*	13,147 / 64.51%	51,337 / 59.51%
			No CPB Cardiovascular	60 / 21.51%*	327 / 21.51%*	3,301 / 21.51%	15,318 / 17.51%
			Support Devices (ECMO, VAD with w/out CPB)	0 / 0.11%*	29 / 2.11%*	904 / 4.11%	4,055 / 2.11%
	Thoracic	N / %	Thoracic	6 / 2.21%*	6 / 2.21%*	503 / 2.21%	2,267 / 2.21%
Age Group		N / %	Adults (18 years+)	18 / 6.51%*	18 / 6.51%*	1,710 / 6.51%	6,589 / 6.51%
			Children (> 1 year - < 18 years)	108 / 38.51%*	108 / 38.51%*	8,390 / 38.51%	36,091 / 38.51%
			Infants (31 days - 1 year)	98 / 35.01%*	98 / 35.01%*	6,457 / 35.01%	27,203 / 35.01%
			Neonates (0-30 days)	57 / 20.41%*	57 / 20.41%*	3,706 / 20.41%	16,345 / 20.41%
Provider		N / %	Anesthesiologist + Advanced Provider (CRNA/AA)	3 / 1.21%*	3 / 1.21%*	4,041 / 1.21%	19,909 / 1.21%
			Anesthesiologist + Trainee	2 / 0.81%*	2 / 0.81%*	8,633 / 0.81%	33,879 / 0.81%
			Anesthesiologist Only	276 / 98.31%*	276 / 98.31%*	7,589 / 98.31%	32,440 / 98.31%
Adverse Events	Any Adverse Event	N / %	Airway Injury	0 / 0.00%*	0 / 0.00%*	0 / 0.00%	0 / 0.00%
			Anaphylaxis/Anaphylactoid Reaction	0 / 0.00%*	0 / 0.00%*	0 / 0.00%	0 / 0.00%
			Anesthesia Equipment Malfunction/ Failure1	0 / 0.00%*	0 / 0.00%*	0 / 0.00%	0 / 0.00%
			Any Adverse Event	1 / 0.51%*	1 / 0.51%*	1 / 0.51%	1 / 0.51%
			Arrhythmia - Central Venous Line Placement	0 / 0.00%*	0 / 0.00%*	0 / 0.00%	0 / 0.00%
			Arterial Line Placement- Extremity ischemia1	0 / 0.00%*	0 / 0.00%*	0 / 0.00%	0 / 0.00%
			Arterial Puncture	0 / 0.00%*	0 / 0.00%*	0 / 0.00%	0 / 0.00%
			Bleeding - Regional Anesthetic Site	0 / 0.00%*	0 / 0.00%*	0 / 0.00%	0 / 0.00%
			Bronchospasm1	0 / 0.00%*	0 / 0.00%*	0 / 0.00%	0 / 0.00%
			Cardiac Arrest - related to anesthesia care	1 / 0.41%*	1 / 0.41%*	1 / 0.41%	1 / 0.41%
			Cardiac Arrest - Unrelated to anesthesia care1	0 / 0.00%*	0 / 0.00%*	0 / 0.00%	0 / 0.00%
			Complications during patient transfer	0 / 0.00%*	0 / 0.00%*	0 / 0.00%	0 / 0.00%
			Difficult Intubation/Reintubation	0 / 0.11%*	0 / 0.11%*	0 / 0.11%	0 / 0.11%
			Emergence Delirium requiring Medication	0 / 0.00%*	0 / 0.00%*	0 / 0.00%	0 / 0.00%
			Endotracheal Tube Migration	0 / 0.00%*	0 / 0.00%*	0 / 0.00%	0 / 0.00%
			Esophageal Chemical Burn	0 / 0.00%*	0 / 0.00%*	0 / 0.00%	0 / 0.00%
			Extubation	0 / 0.00%*	0 / 0.00%*	0 / 0.00%	0 / 0.00%
			Hematoma req. relocation of catheter placement	0 / 0.00%*	0 / 0.00%*	0 / 0.00%	0 / 0.00%
			Hemoptysis1	0 / 0.00%*	0 / 0.00%*	0 / 0.00%	0 / 0.00%
			Hypercyanotic Episode (Tet Spell)	0 / 0.00%*	0 / 0.00%*	0 / 0.00%	0 / 0.00%
			Integument Injury1	0 / 0.00%*	0 / 0.00%*	0 / 0.00%	0 / 0.00%
			Intraoperative Recall	0 / 0.00%*	0 / 0.00%*	0 / 0.00%	0 / 0.00%
			Intrathecal Puncture - Regional	0 / 0.00%*	0 / 0.00%*	0 / 0.00%	0 / 0.00%

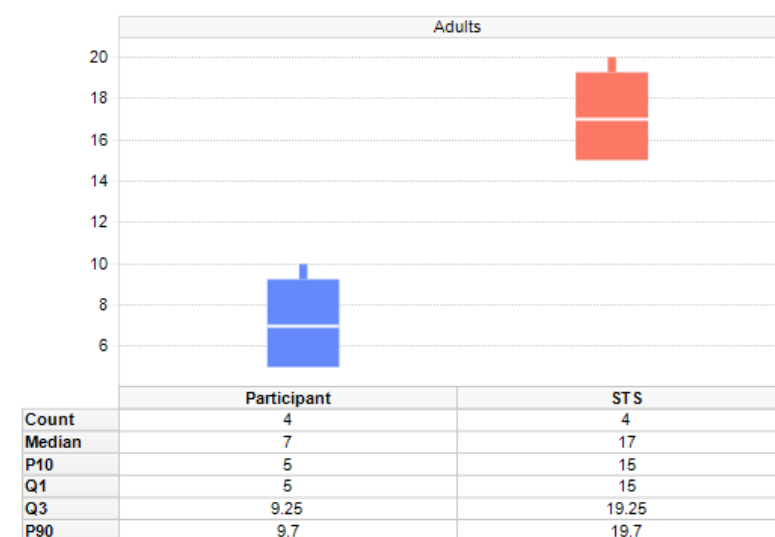
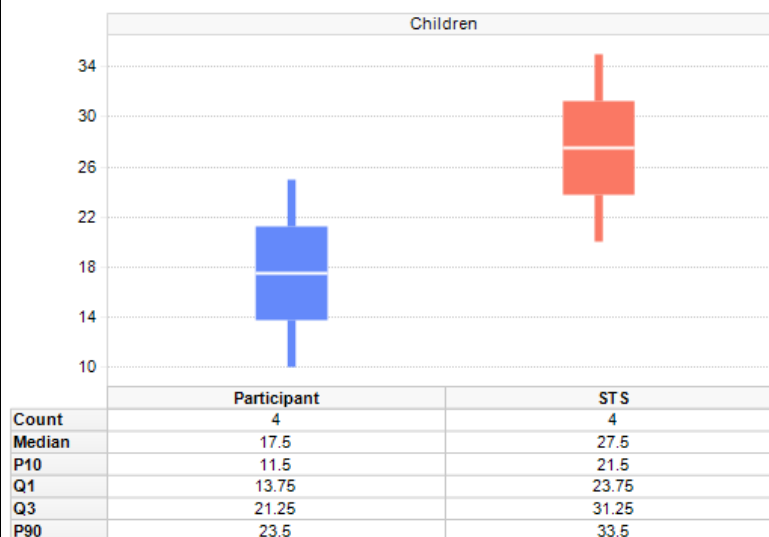
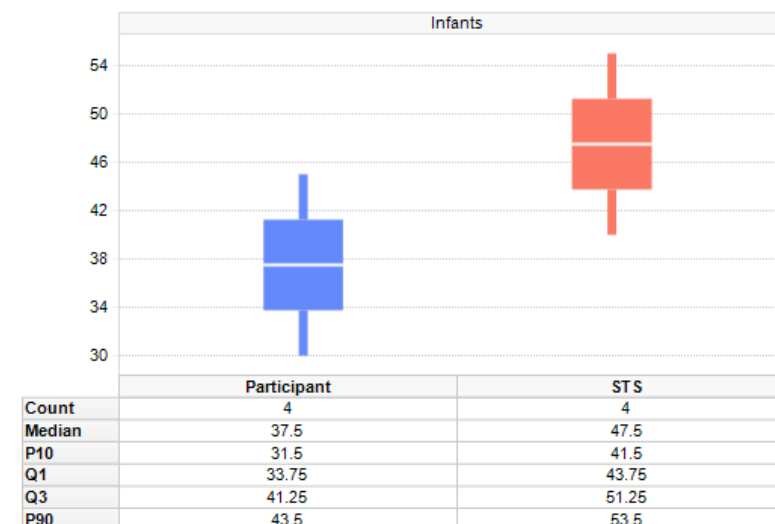
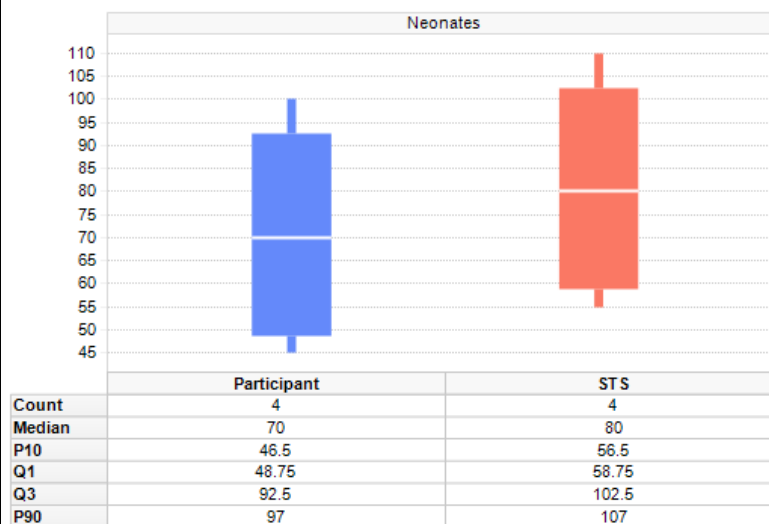


STS Congenital Anesthesiology Report, CPB / No CPB Cardiovascular Operations by Age Groups, Last 4 Years

			Participant				STS			
			Jul 16 - Jun 20				Jul 16 - Jun 20			
			Adults	Children	Infants	Neonates	Adults	Children	Infants	Neonates
Invasive Arterial Blood Pressure	N / %	Radial	44 / 97.81%*	337 / 86.64%*	197 / 58.54%*	43 / 20.61%*	3,083 / 89%	16,681 / 83.91%	10,810 / 61.31%	5,892 / 55.41%
		Brachial	0 / 0%*	0 / 0%*	1 / 0.37%*	0 / 0%*	130 / 3.81%	77 / 0.41%	348 / 2%	254 / 2.41%
		Axillary	0 / 0%*	0 / 0%*	3 / 0.97%*	0 / 0%*	5 / 0.11%	34 / 0.22%	213 / 1.21%	146 / 1.41%
		Ulnar	1 / 2.21%*	5 / 1.32%*	4 / 1.28%*	2 / 1%*	148 / 4.31%	1,412 / 7.12%	1,824 / 10.31%	683 / 6.42%
		Femoral	0 / 0%*	50 / 12.91%*	129 / 38.38%*	45 / 21.51%*	175 / 5.11%	1,867 / 9.42%	4,478 / 25.41%	2,169 / 20.42%
		Central/Umbilical	0 / 0%*	2 / 0.51%*	4 / 1.25%*	131 / 62.71%*	1 / 0%	10 / 0.11%	22 / 0.11%	2,381 / 22.41%
		Other	0 / 0%*	10 / 2.61%*	24 / 7.15%*	82 / 39.21%*	126 / 3.61%	904 / 4.52%	1,872 / 10.62%	3,979 / 37.42%
		Missing	0 / 0%*	0 / 0%*	2 / 0.64%*	0 / 0%*	24 / 0.71%	193 / 1%	188 / 1.11%	220 / 2.12%
Cutdown	N / %	No	49 / 100%*	423 / 99.82%*	417 / 98.62%*	308 / 99%*	3,599 / 74.91%	20,077 / 81%	17,635 / 77.12%	10,922 / 76.91%
		Yes	0 / 0%*	0 / 0%*	0 / 0%*	1 / 0.31%*	63 / 1.31%	488 / 2%	894 / 3.91%	542 / 3.81%
		Missing	0 / 0%*	1 / 0.22%*	6 / 1.42%*	2 / 0.62%*	1,143 / 23.81%	4226 / 17%	4,336 / 19%	2,730 / 19.21%
Central Venous Pres. Monitoring	N / %	Internal Jugular	42 / 97.71%*	230 / 63.92%*	110 / 35.34%*	26 / 14.71%*	2,867 / 94.31%	14,767 / 87.51%	9,908 / 66.71%	3,380 / 40.52%
		Femoral	1 / 2.31%*	122 / 33.91%*	179 / 57.41%*	55 / 31.11%*	95 / 3.11%	1,617 / 9.61%	3,938 / 26.51%	1,895 / 22.72%
		Subclavian	0 / 0%*	4 / 1.11%*	3 / 1%*	2 / 1.12%*	80 / 2.61%	434 / 2.61%	377 / 2.52%	119 / 1.41%
		Other	0 / 0%*	3 / 0.81%*	11 / 3.51%*	78 / 44.12%*	65 / 2.11%	245 / 1.51%	488 / 3.32%	2,239 / 26.82%
		PICC	0 / 0%*	4 / 1.21%*	13 / 4.72%*	12 / 7.52%*	60 / 2.21%	356 / 2.41%	1,027 / 7.81%	1,780 / 23.81%
		Missing	0 / 0%*	5 / 1.41%*	6 / 1.93%*	14 / 7.92%*	20 / 0.71%	137 / 0.81%	225 / 1.51%	445 / 5.32%
Surgeon Placed Central Lines	N / %	No	42 / 100%*	382 / 99.51%*	366 / 96.34%*	277 / 95.81%*	3,009 / 69.71%	16,142 / 73.72%	14,067 / 69.11%	8,319 / 66.71%
		Yes	0 / 0%*	2 / 0.51%*	14 / 3.71%*	11 / 3.81%*	39 / 0.91%	459 / 2.12%	1,052 / 5.21%	1,098 / 8.81%
		Missing	0 / 0%*	0 / 0%*	0 / 0%*	1 / 0.32%*	1,270 / 29.41%	5,297 / 24.22%	5,231 / 25.71%	3,059 / 24.51%
Ultrasound Usage	N / %	None	7 / 14.31%*	159 / 37.51%*	244 / 57.71%*	264 / 84.91%*	845 / 17.61%	4,309 / 17.42%	4,806 / 21%	5,092 / 35.91%
		Arterial Line	1 / 2%*	3 / 0.72%*	8 / 1.92%*	3 / 1%*	213 / 4.41%	1,733 / 7%	2,265 / 9.91%	2,105 / 14.82%
		Central Venous	40 / 81.61%*	244 / 57.51%*	122 / 28.81%*	34 / 10.91%*	1,287 / 26.81%	5,222 / 21.11%	3,095 / 13.52%	1,292 / 9.12%
		Both	1 / 2%*	17 / 4%*	44 / 10.42%*	8 / 2.61%*	1,334 / 27.81%	8,932 / 36%	7,963 / 34.81%	2,421 / 17.12%
		Missing	0 / 0%*	1 / 0.22%*	5 / 1.22%*	2 / 0.64%*	1,126 / 23.41%	4,595 / 18.51%	4,736 / 20.72%	3,284 / 23.12%
Transfusion	N / %	No	37 / 75.51%*	268 / 63.22%*	111 / 26.21%*	126 / 40.54%*	2,200 / 45.81%	8,907 / 35.91%	4,678 / 20.52%	4,105 / 28.92%
		Yes	10 / 20.41%*	135 / 31.81%*	272 / 64.31%*	166 / 53.44%*	1,786 / 37.21%	11,492 / 46.41%	13,822 / 60.52%	7,283 / 51.31%
		Missing	2 / 4.11%*	21 / 5%*	40 / 9.51%*	19 / 6.11%*	819 / 17%	4,392 / 17.71%	4,365 / 19.11%	2,806 / 19.82%

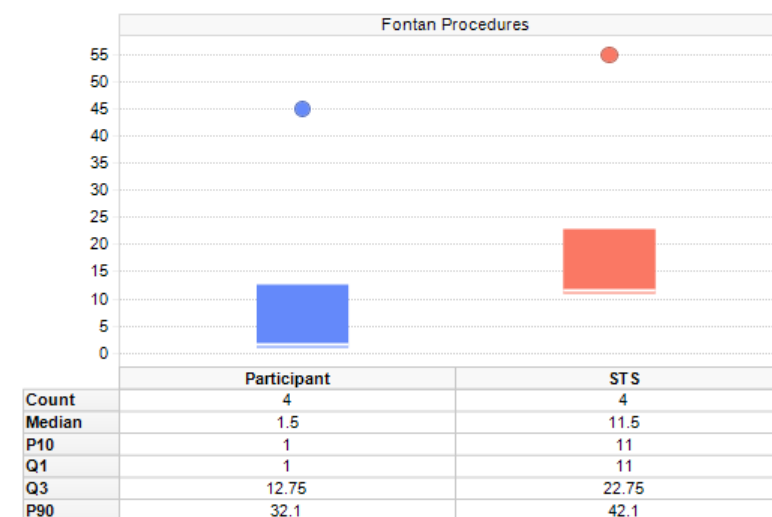
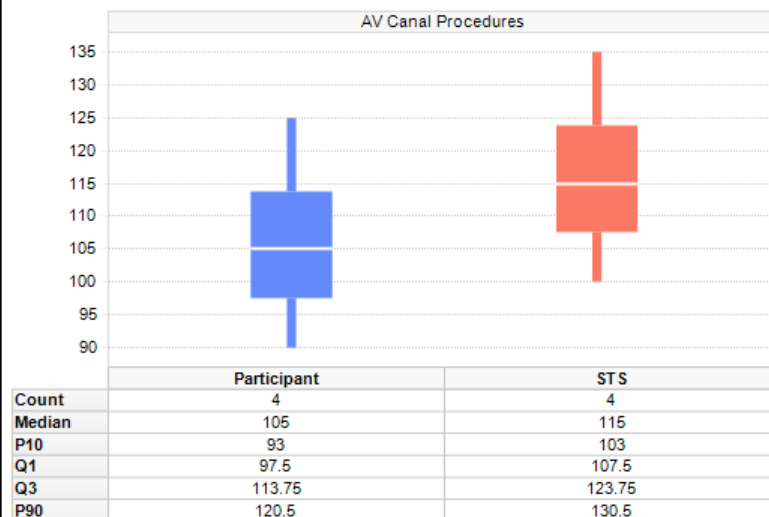
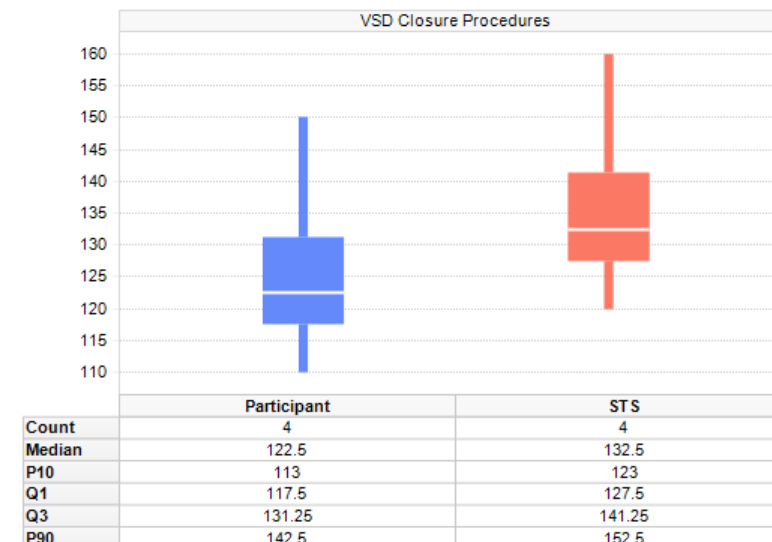
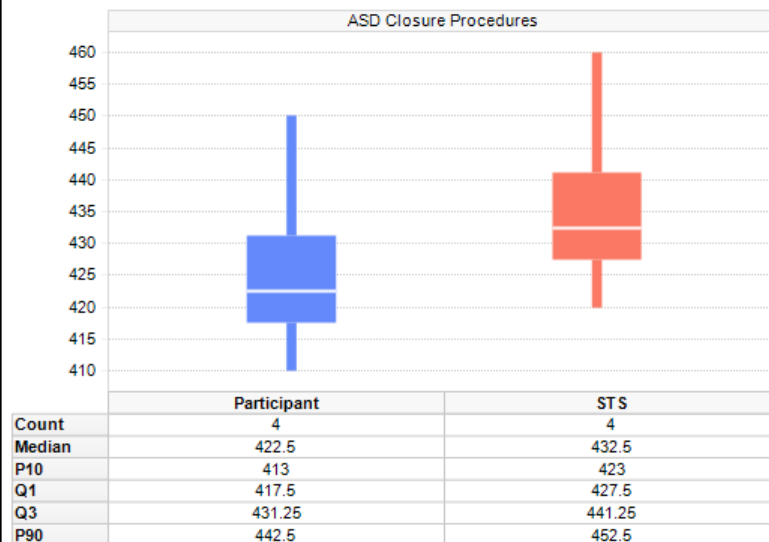
STS Congenital Anesthesiology Report, CPB / No CPB Cardiovascular Operations

Time to Initial Extubation if NOT extubated in Operating Room



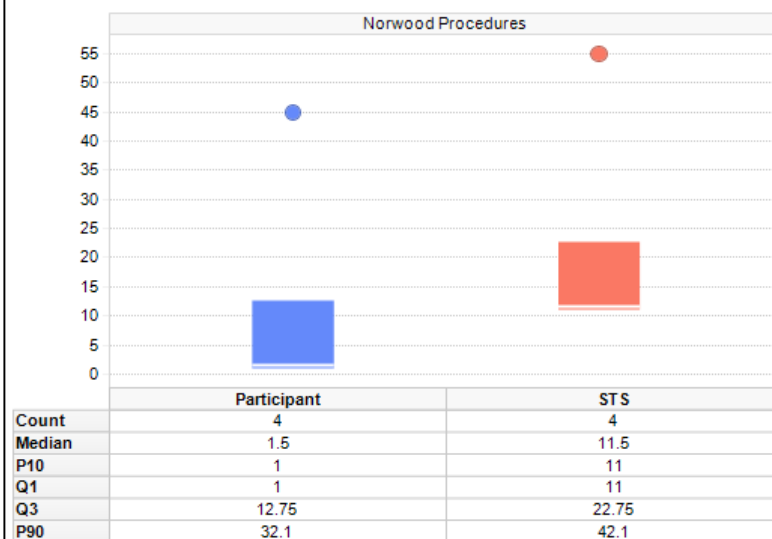
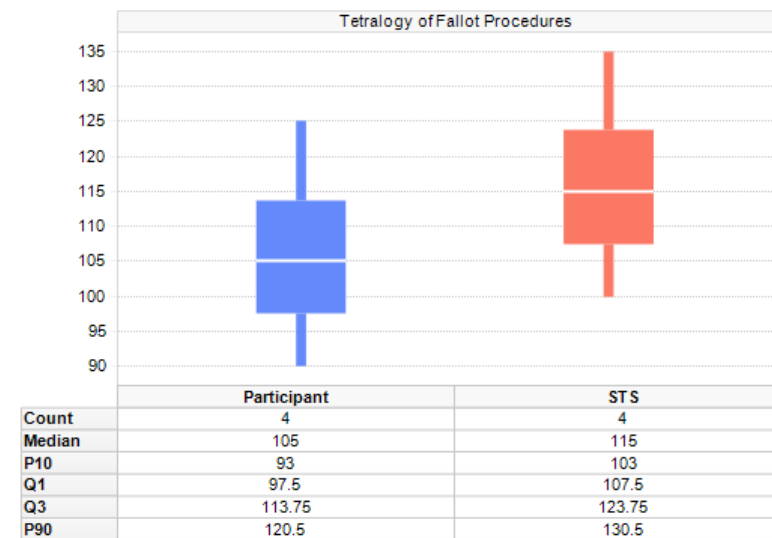
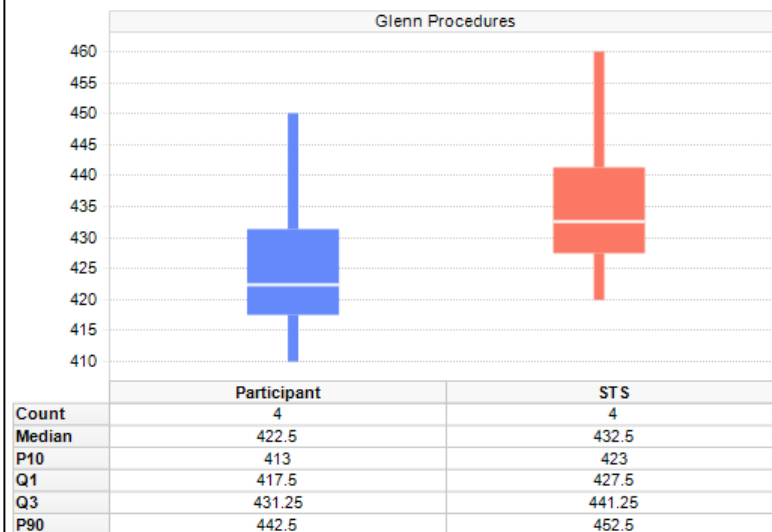
STS Congenital Anesthesiology Report, CPB / No CPB Cardiovascular Operations

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STS Congenital Anesthesiology Report, CPB / No CPB Cardiovascular Operations

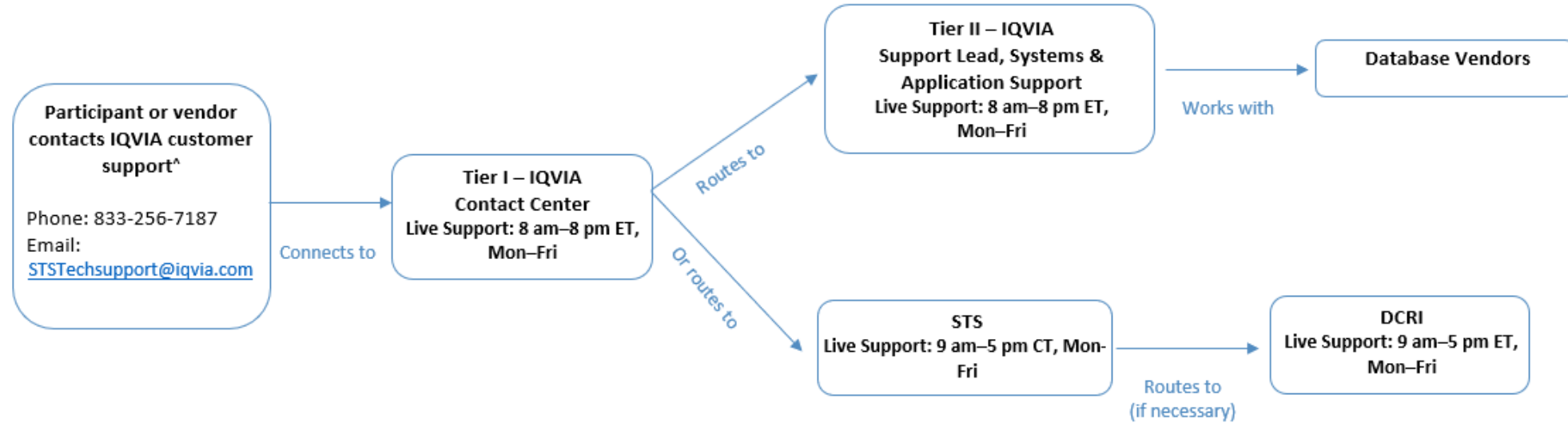
Time to Initial Extubation if NOT extubated in Operating Room



IQVIA Support Plan



Please include your Participant ID



IQVIA's Support Plan

- ^ Inquiries received outside live support hours will require a 24-hour turnaround window (i.e., one business day) for responses.

Resources

- [STS National Database Webpage](#)
- STSTechSupport@IQVIA.com (Uploader, DQR, Missing Variable, Dashboard, Password and Login)
- Phone Support: 1-833-256-7187
- [STS National Database Feedback Form](#)
- Resource Documents
 - Contact Information
 - Webinar Information
 - FAQ Document
 - Go-Live Checklist
 - Tiered-level Support Document
 - *Training Videos*
 - *Link to IQVIA*



Contact Information

- Leigh Ann Jones, STS National Database Manager,
Congenital and General Thoracic
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 - 312-202-5822
- Database Operational Questions
 - STSDB@sts.org

Upcoming CHSD Webinars

Monthly Webinar

- April 20 @ 12pm CT

User Group Call

- May 4 @ 12pm CT



Open Discussion



Please use the Q&A
Function.



We will answer as many
questions as possible.



We encourage your
feedback and want to
hear from you!

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THANK YOU FOR JOINING!