The Society of Thoracic Surgeons **Adult Cardiac Surgery Database**





STS National Database Trusted. Transformed. Real-Time.

du/Change to Field ***Risk variable ++NQF Opdates 00292020	
A. Administrative	
Participant ID: Record ID: (software ge	nerated)
Patient ID: (software generated)	
Patient participating in STS-related clinical trial: ☐ None ☐ Trial 1 ☐ Trial 2 ☐ Trial 3 ☐ Trial 4 ☐ Trial 5 ☐ Trial 5 ☐ Trial 9 ☐ Tr	rial 6 (If not None →) Clinical Trial Patient ID:
B. Demographics	
Patient Last Name: Patient First Name:	Patient Middle Name:
Date of Birth:/ (mm/dd/yyyy)	Sex: ** ☐ Male ☐ Female
National Identification (Social Security) Number Known: ☐ Yes ☐ No ☐ Ref	$\textbf{National ID Number:} \underline{\hspace{1cm}}$
Medical Record Number:	
Permanent Street Address: City:	Г.
Region: ZIP Code	e: Country:
Race Documented: ☐Yes ☐No ☐Pt. Declined to Disclose	
Race: (If Yes, select all that apply→) □ White	
	African American: ** ☐ Hawaiian/Pacific Islander
Asian	
Hispanic, Latino or Spanish Ethnicity: ** ☐ Yes ☐ No ☐ Not Docume	nted
C. Hospitalization	
	Hospital ZIP Code: Hospital Region:
Hospital National Provider Identifier:	Hospital CMS Certification Number:
Primary Payor: ** (Choose one↓)	(If Primary Payor ◇None/Self↓) Secondary Payor: ** (Choose one)
□ None/Self	□ None/Self
☐ Medicare (includes commercially managed options)	☐ Medicare (includes commercially managed options)
(If Medicare →) Commercially Managed Medicare Plan □Yes □ No (If No ↓)	(If Medicare →) Commercially Managed Medicare Plan □Yes □ No (If No ↓)
HICN/MBI Known ☐ Yes ☐ No (If Yes ↓)	HICN/MBI Known Yes No (If Yes \(\))
HICN/MBI:	HICN/MBI:
Primary Payor Medicare Part B: □Yes □ No	Secondary Payor Medicare Part B: ☐ Yes ☐ No
Medicaid (includes commercially managed options)	☐ Medicaid (includes commercially managed options)
Commercial Health Insurance	Commercial Health Insurance
Health Maintenance Organization	Health Maintenance Organization
□ Military	Military
□ Non -U.S. Plan	Non -U.S. Plan
Other	Other
Admit Date:// (mm/dd/yyyy)	Date of Surgery: **/(mm/dd/yyyy)
Admit Source: ☐ Elective Admission ☐ Emergency Department ☐	Transfer in from another hospital/acute care facility □Other
(If Transfer →) Other Hospital Performs Cardiac Su	urgery
· · · ·	
D. Risk Factors	
Height (cm): ** Weight (kg): **	Calculated BMI

(system calculation)

	e Coronary Artery Disease: **						
Diabetes: ** ☐ Yes ☐ No ☐	$\square \text{ Unknown (If Yes} \rightarrow)$		trol: ** 🗆 NonOther 🗆 Unkno		only 🗆 Oral 🗆	Insulin Other	SubQ
Dialysis: ** □ Yes □ No □	Unknown		: ** □ Yes □ N		own		
Endocarditis: ** \square Yes \square	No (If Yes→) Endocarditis Type:	** \[\text{Treated}	Active	<u>о 🗕 сими</u>	5 W II		
	Endocarditis Culture:	ture negative erococcus specie	Strep species	tive species	☐ Polymicrobia	al	staph
Tobacco use: **	☐ Never smoker	,					
	☐ Current every day smoker						
	☐ Current some day smoker						
	☐ Smoker, current status (freq	uency) unknowi	1				
	☐ Former smoker						
	☐ Smoking status unknown						
] No □ Mild □ Moderate □						
(If Mild, Moderate or Severe→	□ Not D	ctive Reactive Cumented	e 🗆 Interstitial F	ibrosis 🗆 R	estrictive \square Oth	er Multiple	
Pulmonary Function Test Do							
(If Yes \rightarrow) FEV1 %	Predicted:	DLCO Test Perfo	rmed: Yes	□ No (If Ye	$s \rightarrow)$ DI	LCO % Predicted	·
Room Air ABG Performed:	\square Yes \square No (If Yes \rightarrow)	Carbon I	ioxide Level:		Oxygen Level :	·	
	RN Yes, oxygen dependent Unknown	Inhaled M	edication or Oral	Bronchodil	ator Therapy:	Yes □ No □ U	nknown
Sleep Apnea: ** □ Yes □	No □ Unknown	Pneumonia	ı: ** □ Recent	☐ Remote	□ No □ Unkno	own	
	Year: ** □Yes □ No □ Unkno	wn (If Ilicit	Intravenous Dr	ug Use with	in One Year:	lYes □No □ U	
		Drug Use = Yes→)	Drug use with	30 days of p	orocedure?	l Yes □ No □ U	J <mark>nknown</mark>
Alcohol Use: ** □ <=1 drir	nk/week □ 2-7 drinks/week □		ek □ None □				
Liver Disease: ** □ Yes [□ No □ Unknown	Liver Cirrl	osis 🗆 Yes 🗆	No 🗆 Unki	nown		
		(If Liver C	irrhosis = Yes→)	Child –Pt	ıgh Class □ A	□ В □ C □ Uı	nknown
Immunocompromised Prese	nt: ** □ Yes □ No □ Unknow	n Mediastina	l Radiation: ** [☐ Yes ☐ No	□ Unknown		
Cancer Within 5 Years: ** [☐ Yes ☐ No ☐ Unknown	Peripheral	Artery Disease:	** □ Yes □	☐ No ☐ Unknov	wn	
Unresponsive State: ** □ Y	es 🗆 No		*				
	¹ □ Yes □ No □ Unknown						
	: ** □ Yes □ No □ Unknown	$(If Yes \rightarrow)$ P	rior CVA-When:	** = 3	0 days $\square > 30 c$	lays	
	** Yes No Unknow				·	•	
CVD Caro	tid Stenosis: ☐ Right ☐ Left		Jone □ Not Do	cumented			
	ght or Both \rightarrow) Severity of stenos:				□ 80 – 99% □	100% □ Not de	ocumented
	Left or Both \rightarrow) Severity of stenos.						
	previous carotid artery surgery an			30-17/0 L	100 <i>)</i> 7/0 L	10070 1100 U	ocumented
Enter available lab results	s below. Not all tests are expec	cted or appropr	iate for all pation				
or if both Hemoglobin &	Hematocrit are missing. if Liv	er disease is p			e, Bilirubin and	INR are expec	ted
WBC Count: **	Hemoglobin:		Hematocrit: **		Platelet Count:	**	
Total Albumin:	A1C Level:		BNP				
Sodium:	Last Creatinine Lev	/el **:	Total Bilirubin	:	INR:		
HIT Antibodies	No □ Not Applicable		MELD Score:		(System Calculatio	on)	
	: Yes No Non-ambulate	ory natient	THEED STORE.		(B) Stom Carearans)	
Tive Weter Walk Test Bone	(If Yes \rightarrow) Time 1:(Time 2:	(seconds) Time 3	: (secon	nds)
Did the patient have a labo	ratory confirmed diagnosis of Co				,		
Did the patient have a lase			lization for this s		arvest Code 11)		
	_ 10s,				Harvest Code 12	2)	
			in hospital after			-,	
						Iarvest Code 14)	
			,		,		
Date of Positive Covid-19	Test (closest to OR date)	_//	(mm/dd/yy	уу)			
E. Previous Cardiac Int	erventions						
	ons: ** Yes No Unknow	vn					
	nary Artery Bypass (CAB): **						
	e Procedure: ** \(\Boxed{\text{Y}}\) Yes \(\Data\) No (If		er at least one pres	zione valve m	ocedure and un to	5 1)	
1 Tevious valv	- 115ccaule 165 - 140 (II			2**	#3**	#4 **	#5**
	valve procedure(s)	#.			π3	#4	#3

Aortic valve balloon valvotomy/valvuloplasty							
Aortic valve repair, surgical							
Aortic valve replacement, surgical							
Aortic valve replacement, transcatheter							
Mitral valve balloon valvotomy/valvuloplasty							
Mitral valve commissurotomy, surgical							
Mitral valve repair, percutaneous							
Mitral valve repair, surgical							
Mitral valve replacement, surgical							
Mitral valve replacement, transcatheter							
Tricuspid valve balloon valvotomy/valvuloplasty Tricuspid valve repair, percutaneous			+				
Tricuspid valve repair, percutaneous Tricuspid valve repair, surgical							
Tricuspid valve replacement, surgical							
Tricuspid valve replacement, surgical Tricuspid valve replacement, transcatheter							
Tricuspid valve replacement, transcatteer Tricuspid valvectomy							
Pulmonary valve balloon valvotomy/valvuloplasty							
Pulmonary valve repair, surgical							
Pulmonary valve replacement, surgical							
Pulmonary valve replacement, transcatheter							
Pulmonary valvectomy							
Other valve procedure							
			<u> </u>			I	
Previous PCI: ** Yes No	3 44 🗆 37	1				C :1:: -	1 3 7
(If Yes →) PCI Performed Within This Episode Of C (If Yes, at this facility or Yes, at some other ac			ility Li Yes	s, at some oth	ier acute care	e facility L	l No
Indication for Surgery: PCI Com		↓)	ПР	CI Failure w	ithout Clinic	al Deteriors	ution
	re with Clinica	al Deteriorat		CI/Surgery S			ition
	TEMI, multive			Other	otaged (not b	(ILIVII)	
PCI Stent: ☐ Yes ☐ No PCI Interval:	** 🗆 <= 6 He	ours $\square > 6$	Hours				
Other Previous Cardiac Interventions: ** \(\subseteq \text{ Yes} \) \(\subseteq \text{ No.} \)							1
NY THE TAXABLE PARTY.	#1**	#2**	#3**	#4**	#5 **	#6**	#7**
No additional interventions							
Ablation, catheter, atrial arrhythmia							
Ablation, catheter, atrial arrhythmia Ablation, catheter, other or unknown							
Ablation, catheter, atrial arrhythmia Ablation, catheter, other or unknown Ablation, catheter, ventricular arrhythmia							
Ablation, catheter, atrial arrhythmia Ablation, catheter, other or unknown Ablation, catheter, ventricular arrhythmia Ablation, surgical, atrial arrhythmia							
Ablation, catheter, atrial arrhythmia Ablation, catheter, other or unknown Ablation, catheter, ventricular arrhythmia Ablation, surgical, atrial arrhythmia Ablation, surgical, other or unknown							
Ablation, catheter, atrial arrhythmia Ablation, catheter, other or unknown Ablation, catheter, ventricular arrhythmia Ablation, surgical, atrial arrhythmia Ablation, surgical, other or unknown Aneurysmectomy, LV							
Ablation, catheter, atrial arrhythmia Ablation, catheter, other or unknown Ablation, catheter, ventricular arrhythmia Ablation, surgical, atrial arrhythmia Ablation, surgical, other or unknown Aneurysmectomy, LV Aortic procedure, arch							
Ablation, catheter, atrial arrhythmia Ablation, catheter, other or unknown Ablation, catheter, ventricular arrhythmia Ablation, surgical, atrial arrhythmia Ablation, surgical, other or unknown Aneurysmectomy, LV Aortic procedure, arch Aortic procedure, ascending							
Ablation, catheter, atrial arrhythmia Ablation, catheter, other or unknown Ablation, catheter, ventricular arrhythmia Ablation, surgical, atrial arrhythmia Ablation, surgical, other or unknown Aneurysmectomy, LV Aortic procedure, arch Aortic procedure, ascending Aortic procedure, descending							
Ablation, catheter, atrial arrhythmia Ablation, catheter, other or unknown Ablation, catheter, ventricular arrhythmia Ablation, surgical, atrial arrhythmia Ablation, surgical, other or unknown Aneurysmectomy, LV Aortic procedure, arch Aortic procedure, ascending Aortic procedure, descending Aortic procedure, root							
Ablation, catheter, atrial arrhythmia Ablation, catheter, other or unknown Ablation, catheter, ventricular arrhythmia Ablation, surgical, atrial arrhythmia Ablation, surgical, other or unknown Aneurysmectomy, LV Aortic procedure, arch Aortic procedure, ascending Aortic procedure, descending Aortic procedure, root Aortic procedure, thoracoabdominal							
Ablation, catheter, atrial arrhythmia Ablation, catheter, other or unknown Ablation, catheter, ventricular arrhythmia Ablation, surgical, atrial arrhythmia Ablation, surgical, other or unknown Aneurysmectomy, LV Aortic procedure, arch Aortic procedure, ascending Aortic procedure, descending Aortic procedure, root Aortic procedure, thoracoabdominal Aortic Procedure, TEVAR							
Ablation, catheter, atrial arrhythmia Ablation, catheter, other or unknown Ablation, catheter, ventricular arrhythmia Ablation, surgical, atrial arrhythmia Ablation, surgical, other or unknown Aneurysmectomy, LV Aortic procedure, arch Aortic procedure, ascending Aortic procedure, descending Aortic procedure, root Aortic procedure, thoracoabdominal Aortic Procedure, TEVAR Aortic root procedure, valve sparing							
Ablation, catheter, atrial arrhythmia Ablation, catheter, other or unknown Ablation, catheter, ventricular arrhythmia Ablation, surgical, atrial arrhythmia Ablation, surgical, other or unknown Aneurysmectomy, LV Aortic procedure, arch Aortic procedure, ascending Aortic procedure, descending Aortic procedure, root Aortic procedure, thoracoabdominal Aortic Procedure, TEVAR Aortic root procedure, valve sparing Atrial appendage obliteration, left, surgical							
Ablation, catheter, atrial arrhythmia Ablation, catheter, other or unknown Ablation, catheter, ventricular arrhythmia Ablation, surgical, atrial arrhythmia Ablation, surgical, other or unknown Aneurysmectomy, LV Aortic procedure, arch Aortic procedure, ascending Aortic procedure, descending Aortic procedure, thoracoabdominal Aortic procedure, TEVAR Aortic root procedure, valve sparing Atrial appendage obliteration, left, surgical Atrial appendage obliteration, left, transcatheter							
Ablation, catheter, atrial arrhythmia Ablation, catheter, other or unknown Ablation, catheter, ventricular arrhythmia Ablation, surgical, atrial arrhythmia Ablation, surgical, other or unknown Aneurysmectomy, LV Aortic procedure, arch Aortic procedure, ascending Aortic procedure, descending Aortic procedure, thoracoabdominal Aortic procedure, TEVAR Aortic root procedure, valve sparing Atrial appendage obliteration, left, surgical Atrial appendage obliteration, left, transcatheter Cardiac Tumor							
Ablation, catheter, atrial arrhythmia Ablation, catheter, other or unknown Ablation, catheter, ventricular arrhythmia Ablation, surgical, atrial arrhythmia Ablation, surgical, other or unknown Aneurysmectomy, LV Aortic procedure, arch Aortic procedure, ascending Aortic procedure, descending Aortic procedure, thoracoabdominal Aortic procedure, TEVAR Aortic root procedure, valve sparing Atrial appendage obliteration, left, surgical Atrial appendage obliteration, left, transcatheter Cardiac Tumor Cardioversion(s)							
Ablation, catheter, atrial arrhythmia Ablation, catheter, other or unknown Ablation, catheter, ventricular arrhythmia Ablation, surgical, atrial arrhythmia Ablation, surgical, other or unknown Aneurysmectomy, LV Aortic procedure, arch Aortic procedure, ascending Aortic procedure, descending Aortic procedure, thoracoabdominal Aortic procedure, TEVAR Aortic root procedure, valve sparing Atrial appendage obliteration, left, surgical Atrial appendage obliteration, left, transcatheter Cardiac Tumor Cardioversion(s) Closure device, atrial septal defect							
Ablation, catheter, atrial arrhythmia Ablation, catheter, other or unknown Ablation, catheter, ventricular arrhythmia Ablation, surgical, atrial arrhythmia Ablation, surgical, other or unknown Aneurysmectomy, LV Aortic procedure, arch Aortic procedure, ascending Aortic procedure, descending Aortic procedure, thoracoabdominal Aortic procedure, TEVAR Aortic root procedure, valve sparing Atrial appendage obliteration, left, surgical Atrial appendage obliteration, left, transcatheter Cardiac Tumor Cardioversion(s) Closure device, atrial septal defect Closure device, ventricular septal defect							
Ablation, catheter, atrial arrhythmia Ablation, catheter, other or unknown Ablation, catheter, ventricular arrhythmia Ablation, surgical, atrial arrhythmia Ablation, surgical, other or unknown Aneurysmectomy, LV Aortic procedure, arch Aortic procedure, ascending Aortic procedure, descending Aortic procedure, root Aortic procedure, thoracoabdominal Aortic Procedure, TEVAR Aortic root procedure, valve sparing Atrial appendage obliteration, left, surgical Atrial appendage obliteration, left, transcatheter Cardiac Tumor Cardioversion(s) Closure device, atrial septal defect Closure device, ventricular septal defect Congenital cardiac repair, surgical							
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Ablation, catheter, atrial arrhythmia Ablation, catheter, other or unknown Ablation, catheter, ventricular arrhythmia Ablation, surgical, atrial arrhythmia Ablation, surgical, other or unknown Aneurysmectomy, LV Aortic procedure, arch Aortic procedure, ascending Aortic procedure, descending Aortic procedure, root Aortic procedure, thoracoabdominal Aortic Procedure, TEVAR Aortic root procedure, valve sparing Atrial appendage obliteration, left, surgical Atrial appendage obliteration, left, transcatheter Cardiac Tumor Cardioversion(s) Closure device, atrial septal defect Closure device, ventricular septal defect Congenital cardiac repair, surgical ECMO Implantable Cardioverter Defibrillator (ICD) with or							
Ablation, catheter, atrial arrhythmia Ablation, catheter, other or unknown Ablation, catheter, ventricular arrhythmia Ablation, surgical, atrial arrhythmia Ablation, surgical, other or unknown Aneurysmectomy, LV Aortic procedure, arch Aortic procedure, ascending Aortic procedure, descending Aortic procedure, root Aortic procedure, thoracoabdominal Aortic Procedure, TEVAR Aortic root procedure, valve sparing Atrial appendage obliteration, left, surgical Atrial appendage obliteration, left, transcatheter Cardiac Tumor Cardioversion(s) Closure device, atrial septal defect Closure device, ventricular septal defect Congenital cardiac repair, surgical ECMO Implantable Cardioverter Defibrillator (ICD) with or without pacemaker							
Ablation, catheter, atrial arrhythmia Ablation, catheter, other or unknown Ablation, catheter, ventricular arrhythmia Ablation, surgical, atrial arrhythmia Ablation, surgical, other or unknown Aneurysmectomy, LV Aortic procedure, arch Aortic procedure, ascending Aortic procedure, descending Aortic procedure, root Aortic procedure, thoracoabdominal Aortic Procedure, TEVAR Aortic root procedure, valve sparing Atrial appendage obliteration, left, surgical Atrial appendage obliteration, left, transcatheter Cardiac Tumor Cardioversion(s) Closure device, atrial septal defect Closure device, ventricular septal defect Congenital cardiac repair, surgical ECMO Implantable Cardioverter Defibrillator (ICD) with or							
Ablation, catheter, atrial arrhythmia Ablation, catheter, other or unknown Ablation, catheter, ventricular arrhythmia Ablation, surgical, atrial arrhythmia Ablation, surgical, other or unknown Aneurysmectomy, LV Aortic procedure, arch Aortic procedure, ascending Aortic procedure, descending Aortic procedure, thoracoabdominal Aortic procedure, TEVAR Aortic root procedure, valve sparing Atrial appendage obliteration, left, surgical Atrial appendage obliteration, left, transcatheter Cardiac Tumor Cardioversion(s) Closure device, atrial septal defect Closure device, ventricular septal defect Congenital cardiac repair, surgical ECMO Implantable Cardioverter Defibrillator (ICD) with or without pacemaker Myectomy (not congenital)							
Ablation, catheter, atrial arrhythmia Ablation, catheter, other or unknown Ablation, catheter, ventricular arrhythmia Ablation, surgical, atrial arrhythmia Ablation, surgical, other or unknown Aneurysmectomy, LV Aortic procedure, arch Aortic procedure, ascending Aortic procedure, descending Aortic procedure, thoracoabdominal Aortic procedure, TEVAR Aortic root procedure, valve sparing Atrial appendage obliteration, left, surgical Atrial appendage obliteration, left, transcatheter Cardiac Tumor Cardioversion(s) Closure device, atrial septal defect Closure device, ventricular septal defect Congenital cardiac repair, surgical ECMO Implantable Cardioverter Defibrillator (ICD) with or without pacemaker Myectomy (not congenital) Permanent							
Ablation, catheter, atrial arrhythmia Ablation, catheter, other or unknown Ablation, catheter, ventricular arrhythmia Ablation, surgical, atrial arrhythmia Ablation, surgical, other or unknown Aneurysmectomy, LV Aortic procedure, arch Aortic procedure, ascending Aortic procedure, descending Aortic procedure, thoracoabdominal Aortic procedure, thoracoabdominal Aortic Procedure, TEVAR Aortic root procedure, valve sparing Atrial appendage obliteration, left, surgical Atrial appendage obliteration, left, transcatheter Cardiac Tumor Cardioversion(s) Closure device, atrial septal defect Closure device, ventricular septal defect Congenital cardiac repair, surgical ECMO Implantable Cardioverter Defibrillator (ICD) with or without pacemaker Myectomy (not congenital) Permanent Pacemaker Pericardial window/Pericardiocentesis							
Ablation, catheter, atrial arrhythmia Ablation, catheter, other or unknown Ablation, catheter, ventricular arrhythmia Ablation, surgical, atrial arrhythmia Ablation, surgical, other or unknown Aneurysmectomy, LV Aortic procedure, arch Aortic procedure, ascending Aortic procedure, descending Aortic procedure, root Aortic procedure, thoracoabdominal Aortic procedure, TEVAR Aortic root procedure, valve sparing Atrial appendage obliteration, left, surgical Atrial appendage obliteration, left, transcatheter Cardiac Tumor Cardioversion(s) Closure device, atrial septal defect Closure device, ventricular septal defect Congenital cardiac repair, surgical ECMO Implantable Cardioverter Defibrillator (ICD) with or without pacemaker Myectomy (not congenital) Permanent Pacemaker Pericardial window/Pericardiocentesis Pericardiectomy							
Ablation, catheter, atrial arrhythmia Ablation, catheter, other or unknown Ablation, catheter, ventricular arrhythmia Ablation, surgical, atrial arrhythmia Ablation, surgical, other or unknown Aneurysmectomy, LV Aortic procedure, arch Aortic procedure, ascending Aortic procedure, descending Aortic procedure, root Aortic procedure, thoracoabdominal Aortic procedure, TEVAR Aortic root procedure, valve sparing Atrial appendage obliteration, left, surgical Atrial appendage obliteration, left, transcatheter Cardiac Tumor Cardioversion(s) Closure device, atrial septal defect Closure device, ventricular septal defect Congenital cardiac repair, surgical ECMO Implantable Cardioverter Defibrillator (ICD) with or without pacemaker Myectomy (not congenital) Permanent Pacemaker Pericardial window/Pericardiocentesis Pericardiectomy Pulmonary Thromboembolectomy							
Ablation, catheter, atrial arrhythmia Ablation, catheter, other or unknown Ablation, catheter, ventricular arrhythmia Ablation, surgical, atrial arrhythmia Ablation, surgical, other or unknown Aneurysmectomy, LV Aortic procedure, arch Aortic procedure, ascending Aortic procedure, descending Aortic procedure, thoracoabdominal Aortic procedure, thoracoabdominal Aortic Procedure, TEVAR Aortic root procedure, valve sparing Atrial appendage obliteration, left, surgical Atrial appendage obliteration, left, transcatheter Cardiac Tumor Cardioversion(s) Closure device, atrial septal defect Closure device, ventricular septal defect Congenital cardiac repair, surgical ECMO Implantable Cardioverter Defibrillator (ICD) with or without pacemaker Myectomy (not congenital) Permanent Pacemaker Pericardial window/Pericardiocentesis Pericardiectomy Pulmonary Thromboembolectomy Total Artificial Heart (TAH)							
Ablation, catheter, atrial arrhythmia Ablation, catheter, other or unknown Ablation, catheter, ventricular arrhythmia Ablation, surgical, atrial arrhythmia Ablation, surgical, other or unknown Aneurysmectomy, LV Aortic procedure, arch Aortic procedure, ascending Aortic procedure, descending Aortic procedure, thoracoabdominal Aortic procedure, thoracoabdominal Aortic Procedure, TEVAR Aortic root procedure, valve sparing Atrial appendage obliteration, left, surgical Atrial appendage obliteration, left, transcatheter Cardiac Tumor Cardioversion(s) Closure device, atrial septal defect Closure device, ventricular septal defect Congenital cardiac repair, surgical ECMO Implantable Cardioverter Defibrillator (ICD) with or without pacemaker Myectomy (not congenital) Permanent Pacemaker Pericardial window/Pericardiocentesis Pericardiectomy Pulmonary Thromboembolectomy Total Artificial Heart (TAH) Transmyocardial Laser Revascularization (TMR)							
Ablation, catheter, atrial arrhythmia Ablation, catheter, other or unknown Ablation, catheter, ventricular arrhythmia Ablation, surgical, atrial arrhythmia Ablation, surgical, other or unknown Aneurysmectomy, LV Aortic procedure, arch Aortic procedure, ascending Aortic procedure, descending Aortic procedure, thoracoabdominal Aortic procedure, thoracoabdominal Aortic Procedure, TEVAR Aortic root procedure, valve sparing Atrial appendage obliteration, left, surgical Atrial appendage obliteration, left, transcatheter Cardiac Tumor Cardioversion(s) Closure device, atrial septal defect Closure device, ventricular septal defect Congenital cardiac repair, surgical ECMO Implantable Cardioverter Defibrillator (ICD) with or without pacemaker Myectomy (not congenital) Permanent Pacemaker Pericardial window/Pericardiocentesis Pericardiectomy Pulmonary Thromboembolectomy Total Artificial Heart (TAH) Transmyocardial Laser Revascularization (TMR) Transplant heart & lung							
Ablation, catheter, atrial arrhythmia Ablation, catheter, other or unknown Ablation, catheter, ventricular arrhythmia Ablation, surgical, atrial arrhythmia Ablation, surgical, other or unknown Aneurysmectomy, LV Aortic procedure, arch Aortic procedure, ascending Aortic procedure, descending Aortic procedure, thoracoabdominal Aortic procedure, TEVAR Aortic root procedure, valve sparing Atrial appendage obliteration, left, surgical Atrial appendage obliteration, left, transcatheter Cardiac Tumor Cardioversion(s) Closure device, atrial septal defect Closure device, ventricular septal defect Congenital cardiac repair, surgical ECMO Implantable Cardioverter Defibrillator (ICD) with or without pacemaker Myectomy (not congenital) Permanent Pacemaker Pericardial window/Pericardiocentesis Pericardiectomy Pulmonary Thromboembolectomy Total Artificial Heart (TAH) Transmyocardial Laser Revascularization (TMR) Transplant heart & lung Transplant, heart							

Ven	tricular Assist D	Device (VAD), right							
Other Cardiac Intervention (not listed)										
T. D	G 11 G	,								
F. Preoperative	e Cardiac Stai	tus	TI 1 (Year 1)							
Prior Myocardial	Infarction: L Ye		Unknown (If Yes ↓) nen:** □ <=6 Hrs. □	l. CII. l. 4	.04.11	□ 1 . 7 D	По. 21	Ъ П.	21 D	
Deimony Cononomy	Crympton for			l >6 Hrs. but < ☐ Angina l		☐ 1 to 7 Days	<u> □ 8 to 21</u>	Days $\square >$	21 Days	
Primary Coronary Surgery: **	Symptom for		Coronary Symptoms ole Angina	☐ Unstable		ļ.				
Surgery.			Elevation MI (STEMI)			MI (Non-STE	MI)			
		□ Oth) LINOII-SI	Licvation	WII (NOII-STE	IVII)			
Heart Failure:□ Y	es □ No □ Ui			Acute Chro	nic 🗆 Bo	th Type:	Systolic 🗆 I	Diastolic 🗆 I	Both □ Una	vailable
Classification-NY	HA:** □ Class	I □ Class I	I □ Class III □ Clas	ss IV	Document	ed	-			
Cardiogenic Shoc	k :** □ Yes, at	the time of t	he procedure	not at the time	of the pro	cedure but wi	thin prior 24	hours 🗆 l		
Resuscitation:**	☐ Yes - Within	1 hour of the	e start of the procedure	☐ Yes - Mo	re than 1 l	nour but less th	nan 24 hours	of the start o	f the procedu	ure 🗆 No
Cardiac Arrhythm	ia: 🗆 Yes 🗆 N	lo .								
			Rhythm: ☐ Yes ☐ N	0						
(If Arrhythmia = Ye		VTach/VFil		AFlutter**	Α	.Fibrillation**		Degree Hear		
response below for 6	each rhythm \rightarrow)		Syndrome**				Block**	:	Heart B	lock**
	None									
	30 days preop)									
Recent (<=	30 days preop)									
(If AFibrillation is n	ot None →)	Atrial Fibril	lation Type: Paroxy		istent **					
(If AFibrillation = R)	/	Was patient	in A-fib at OR Entry?	☐ Yes ☐ N	No					
		The second second	,							
G. Preoperativ	e Medications									
	<u>ledications</u>		Timeframe	<u> </u>		Λ	dministrat	ion		
ACE or ARB **	<u> redication</u>		Within 48 hours	ПVes П	I No. □ C	ontraindicated				
Amiodarone			Prior to surgery			rapy Yes			ission	
i innouncement			r nor to surgery				, therapy star	tea tiiis taiiii	1351011	
	Beta Blocker ++	+	Within 24 hours			ontraindicated				
	Beta Blocker		On the rapy for ≥ 2	□ Yes □	No □ C	ontraindicated	☐ Unknow	n		
			weeks prior to surgery							
	Calcium Chann	nel Blocker	On the rapy for ≥ 2		No □ C	ontraindicated	☐ Unknow	n		
			weeks prior to surgery							
Antianginal	Long-acting Ni	itrate	On the rapy for ≥ 2		l No □ C	ontraindicated	☐ Unknow	n		
			weeks prior to surgery							
	Nitrates, intrav		Within 24 hours	☐ Yes ☐						
	Other Antiangi	nal	On the rapy for ≥ 2		INo ⊔ C	ontraindicated	⊔ Unknown	l		
	ADP Inhibitor	**	weeks prior to surgery Within 5 days		IN ₀ \Box C	ontraindicated	□ Unlmove			
	(includes P2Y1		within 5 days							
	•	12)		$(If Yes \rightarrow)$		ibitors Discon			days prior to	o surgery)
Antiplatelet	Aspirin		Within 5 days	□ Yes □		ontraindicated				
F				(If Yes→)		irin Discontin			prior to surg	ery)
				` ′		oirin one time	dose: Yes	□ No		
	Glycoprotein II	lb/IIIa **	Within 24 hours	□ Yes □	l No					
	Anticoagulants		Within 48 hours	□ Yes □	l No					
	(Intravenous/ S	SubQ)								
				$(If Yes \rightarrow)$	□ H	Heparin (Unfra	ctionated)			
						Heparin (Low 1	Molecular)			
Antiquagulant						Both				
Anticoagulant						ther				
	Warfarin (Cou	madin)	Within 5 days	□ Yes □	INo □ U	Jnknown				
				(If Yes→)	C	din Di '	ation:	(ш л	i.a +)
	Discontinu		*****	` /		din Discontinu	ation:	(# aays p	orior to surge	1y)
	Direct Oral And	ticoagulant	Within 5 days	□ Yes □	INo ∐ U	Jnknown				
	(DOAC)			(If Yes→)	DOAC	Discontinuation	n'	(# doz.o. = =	ior to surgery	. <u>n</u>
				$(11 \text{ i es} \rightarrow)$	DOAC	Discontinuation	лг	(# days pr	ior to surgery	y)

Thrombolytics	Within 24 hours	□ Yes □ No
Inotropic, Intravenous **	Within 48 hours	□ Yes □ No
Lipid Lowering	Within 24 hours	☐ Yes ☐ No ☐ Contraindicated ☐ Unknown
		$(\text{If Yes} {\rightarrow}) \qquad \text{Medication Type}: \ \square \ \ \text{Statin} \ \ \square \ \ \text{Statin} + \text{Other} \ \ \square \ \ \text{Non-statin/Other}$
Steroids **	Within 24 hours	☐ Yes ☐ No ☐ Contraindicated ☐ Unknown
H. Hemodynamics/Cath/Ech	0	
Cardiac Catheterization Performed		Cardiac Catheterization Date://
Coronary Anatomy/Disease know	n: ☐ Yes ☐ No (If Yes ↓)	
Number	None □ One □ Two □ Three	e e
Diseased		
Vessels **(If		
one, two or three vessel disease ↓)		
	$s \ge 50\%$ known \square Yes \square No \square N	√ A
(If Yes→) Is	location of stenosis known: ☐ Yes	□ No
	(If Yes select all th	of apply Notice Autom: Stancois Stanctic Coeft Stanctic Stant
	(II Tes select all til	□ Native Artery Stenosis □ Stenotic Graft □ Stenotic Stent
**LAD distribution s	tenosis ≥ 50% known □ Yes □ N	0 □ N/A
	50-69% □ ≥ 70%	
(If Yes→)	location of stenosis known: ☐ Yes	□ No.
	iocation of stenosis known: Li Yes	LI INO
	(If Yes select all th	nat apply→) □ Native Artery Stenosis □ Stenotic Graft □ Stenotic Stent
Ramus stenosis ≥ 509	% known □ Yes □ No □ N/A	
	50-69% □ ≥ 70%	
	30-69% □ ≥ 70%	
(If Yes→) Is	location of stenosis known: Yes	□ No
	(If Yes select all th	at apply→) □ Native Artery Stenosis □ Stenotic Graft □ Stenotic Stent
Cinoumfley distributi	on stenosis $\geq 50\%$ known \square Yes \square	No D N/A
Circumiex distributi	on stenosis ≥ 50% known □ 1 es L	
	50-69% □ ≥ 70%	
(163/)		
Is	location of stenosis known: Yes	□ No
	(If Voc coloot all th	(of opply)
	(If Yes select all th	□ Native Artery Stenosis □ Stenotic Graft □ Stenotic Stent
RCA distribution ster	nosis≥50% known □ Yes □ No	□ N/A
	50-69% □ ≥ 70%	
$(If Yes \rightarrow)$	location of stenosis known: ☐ Yes	□ N _o
IS	location of stellosis known: 1 es	LI NO
	(If Yes select all th	at apply→) □ Native Artery Stenosis □ Stenotic Graft □ Stenotic Stent
Ejection Fraction Done: ☐ Yes ☐		ection Fraction: ** (%)
Dimensions Available: ☐ Yes ☐		Dimension: (mm) LV End-Diastolic Dimension: (mm)
PA Systolic Pressure Measured: [$\exists \text{ Yes } \square \text{ No (If Yes} \rightarrow) \qquad \qquad PA$	A Systolic Pressure: mmHg
Aortic Valve		
Aortic Valve Regurgitation: Ye		
	egurgitation: ** □Trivial/Trace [☐ Mild ☐ Moderate ☐ Severe ☐ Not Documented
Aortic Valve Stenosis: ** Yes		
	tenosis: Mild Moderate	
	Hemodynamic/Echo Data Available	
	(If Yes →) Aortic Valve Area:	
	Mean Gradient:	
	Aortic Jet Velocity (Vn	nax):m/s
Aortic Valve Disease: Yes N		
(If Aortic Valve Disease, Yes→)	AV Disease Etiology: ** Choose I	PRIMARY Etiology (one)

☐ Bicuspid valve disease		Primary Aortic Disease, Atherosclerotic Aneurysm
☐ Unicuspid valve disease		Primary Aortic Disease, Ehlers-Danlos Syndrome
☐ Quadricuspid valve disease		Primary Aortic Disease, Hypertensive Aneurysm
☐ Congenital (other than Bicuspid, Unicuspid, or Quadricuspid)		Primary Aortic Disease, Idiopathic Root Dilatation
☐ Degenerative- Calcified		Primary Aortic Disease, Inflammatory
☐ Degenerative- Leaflet prolapse with or without annular dilation		Primary Aortic Disease, Loeys-Dietz Syndrome
☐ Degenerative- Pure annular dilatation without leaflet prolapse		Primary Aortic Disease, Marfan Syndrome
☐ Degenerative- Commissural rupture		Primary Aortic Disease, Other Connective tissue disorder
☐ Degenerative- Extensive fenestration		Radiation induced heart disease
☐ Degenerative- Leaflet perforation/hole		Reoperation-Failure of previous AV repair or replacement
☐ Endocarditis, native valve with root abscess		Rheumatic
☐ Endocarditis, native valve without root abscess		Supravalvular Aortic Stenosis
☐ Endocarditis, prosthetic valve with root abscess		Trauma
☐ Endocarditis, prosthetic valve without root abscess		Carcinoid
☐ LV Outflow Tract Pathology, HOCM		Tumor, Myxoma
☐ LV Outflow Tract Pathology, Sub-aortic membrane		Tumor, Papillary Fibroelastoma
☐ LV Outflow Tract Pathology, Sub-aortic tunnel		Tumor, Other
☐ LV Outflow Tract Pathology, Other		Mixed Etiology
☐ Primary Aortic Disease, Aortic Dissection		Not Documented
Mitral Valve		
Mitral Valve Regurgitation:-□ Yes □ No		
(If Yes →) Mitral Regurgitation: ** □ Trivial/Trace □Mild □ Mod	lerate [☐ Severe ☐ Not Documented
Mitral Valve Stenosis: ** ☐ Yes ☐ No		
(If Yes \rightarrow) Mitral Valve Stenosis: □ Mild □ Moderate □ Severe □ No	t Docum	ented
Hemodynamic/ Echo data available: ☐ Yes ☐ No		
Valve Area: cm ²		
(If Yes →) Mean Gradient: mmHg		
Mean Gradient: mining		
Mitral Valve Disease: ☐ Yes ☐ No		
Choose PRIMARY Lesion (one): (If Mitral Valve Disease, Yes ↓)		
\square Class I – Normal Leaflet Mobility (If Class I \rightarrow)		□Pure Annular Dilatation
		□Endocarditis, Native Valve
		□Other/ Unknown/Not Available
☐ Class II – Increased Leaflet Mobility (If Class II →)		☐Myxomatous degenerative prolapse/flail
		□ Endocarditis
		□Other/Unknown/Not Available
		(If Myxomatous→) □Posterior Leaflet
		Anterior Leaflet
	1 \	□Both
☐ Class III A– Restricted Leaflet Mobility (systole and diast	ole)	Rheumatic
$(\text{If Class III A} \rightarrow)$		□Tumor (Carcinoid or Other)
		□Radiation Induced Heart Disease
		□MAC □ I
		□Congenital □Other/Unknown/Not Available
Class III D. Doctricted Leeflet Mehility (cystole only)		□Ischemic (acute/chronic)
☐ Class III B – Restricted Leaflet Mobility (systole only)		□Non-ischemic Cardiomyopathy
(II Class III D 7)		
		□Other/Unknown/Not Available
☐ Mixed Lesion (Type II and Type IIIA)		☐Mixed leaflet lesion (prolapse/flail and restriction)
(If Mixed Lesion →)		□Congenital
		□Other/Unknown/Not Available
☐ Acute Papillary muscle rupture		
☐Reoperative-Failure of previous MV repair or replacement		
☐ Other/Unknown/Not Available		
Tricuspid Valve		
Tricuspid Valve Regurgitation: ☐ Yes ☐ No		
(If Yes→) Tricuspid Regurgitation: ** □Trivial/Trace	e 🗆 Milo	l □ Moderate □ Severe □ Not Documented
Tricuspid Valve Stenosis: Yes □ No □		
(If Yes→) Tricuspid Valve Stenosis: ☐ Mild ☐ Mod	lerate 🗆	Severe ☐ Not Documented
Tricuspid Valve Disease: ☐ Yes ☐ No		
(If Tricuspid Disease, Yes →) Tricuspid Annular Echo Measurement Ava	ilable: [l Yes □ No (If Yes→) Tricuspid Diameter: cm
(If Tricuspid Disease, Yes ↓) TV Etiology: Choose ONE PRIMARY Etiolog		
☐ Functional/ secondary		Rheumatic
☐ Endocarditis, Native Valve		Tumor
☐ Endocarditis, Prosthetic Valve		Radiation induced heart disease
☐ Carcinoid		Trauma

	Congenital				_	Deoperation	Faile	are of previous TV repair or replacement
	Degenerative					Mixed etiolo		ire of previous 1 v repair of replacement
		theter induced dy	zsfunction			Not Docume		
	ic Valve	meter madeca a	ystunction			rvot Bocume	iiica	
		itation: ☐ Yes ☐	□ No					
	<i>U U</i>							
			on: 🗆 Trivial/Trace 🗀 M	ild 🗆 Mode	erate	☐ Severe ☐ 1	Not D	Occumented
Pulmon	ic Valve Stenos	s: 🗆 Yes 🗀 No						
	Pulmonic	Valve Stenosis: [☐ Mild ☐ Moderate ☐ Se	evere \square Not	Docu	ımented		
(If Ye	s→) TT 1	· /E 1 1 ·	vailable: □ Yes □ No					
	Hemodyna	mic /Ecno data a	vailable: ☐ Yes ☐ No					
		(If Yes→) Mean	Gradient:mmH	Ισ				
Dulmon	ic Valva Disass	e: \square Yes \square No	i Gradientninii i	5				
	onic Valve Disease		Etiology: (choose one)					
	Acquired	, 105)	Etiology. (choose one)			Endocarditis		
	-	iced heart diseas						41-411
						Endocarditis		stnetic valve
	_		llot (TOF) repair			Mixed etiolo	ogy	
	_		of Fallot (TOF) repair			Other		
	Reoperation-I	ailure of previou	s PV repair or replacement	t		Not Docume	ented	
	rative							
Surgeon	1:			· · · · · · · · · · · · · · · · · · ·		Surgeon NI	PI:	
Гахрау	er Identification	Number:						
	☐ No, STS ris was not docume ☐ NA, Not app	k calculator score	was available for schedule t or salvage case, or no risk	ed procedure	but 1	not discussed for this proce	with t	surgery as documented in the medical record the patient/family prior to surgery or the discussion op cardiovascular surgery
		t re-op cardiovas						r more re-op cardiovascular surgery
	□ Sec	ond re-op cardiov	vascular surgery			□ NA		a cardiovascular surgery
Status: *	** 🗆 Elec			Emergent Sal				
			Emergent Salvage choose the	most pressing	reaso	on↓)		
	_		ergent Salvage reason:				_	DOLL 1 - 14 - 15 - 11 - 1 - 1
		AMI Anatomy						PCI Incomplete without clinical deterioration
		Anatomy Aortic Aneurys	e m					PCI or attempted PCI with clinical deterioration Pulmonary Edema
		Aortic Dissecti						Pulmonary Embolus
		CHF						Rest Angina
		Device Failure						Shock, Circulatory Support
		Diagnostic/Inte	erventional Procedure Com	plication				Shock, No Circulatory Support
		Endocarditis						Syncope
			theter Valve Therapy, acut					Transplant
			theter Valve Therapy, acut					Trauma
			theter Valve Therapy, sub	acute device	dysfi	unction		USA
		IABP Infected Devic	۵					Valve Dysfunction Worsening CP
			e ass or thrombus					Other
	П	Ongoing Ische					_	Oute
nitial C	perative Approa	nch:	conventional sternotomy al sternotomy xiphoid		□ Pe	oracoabdomin recutaneous ort Access	al Ind	cision
Approac	ch converted du	ring procedure:						
	Jsed: ☐ Yes ☐ ary Artery Bypa		☐ Used for entire opera	tion Us	ed for	r part of the o	perati	on
Perfor		I rocodule		surgical cor	nplica	ation □ Yes,	unpla	anned due to unsuspected disease or anatomy

☐ Yes, planned

Aorta Procedure Performed:

_		☐ Yes, unplanned due to surgical complication						
		☐ Yes, unpla ☐ No	anned due to unsus	pected disease or anato	omy			
		If Yes comple	ete Section M 2)					
			edure performed \rightarrow)	Did the surgeon provi	ide input for	aortic surgery data ab	straction?	
Valve Procedure Pe	erformed:	□ Yes □ N	Ío					
	-			Was a valve explanted	d: □ Yes □	No		
				(If Yes complete Section	n K)			
				Aortic Valve	☐ Yes, pla	nned		
				Procedure performed:	: ☐ Yes, un	planned due to surgic		
					☐ Yes, un ☐ No	planned due to unsus	pected disease or anatomy	
				(If Yes –		cedure performed on	the Aorta? ☐ Yes ☐ No	
					(If 'Yes' co	mplete M2; If 'No' com	plete K1)	
				Mitral Valve	☐ Yes, pla		1 11 11 11	
		(I	f Yes →)	Procedure performed:		planned due to surgic	al complication pected disease or anatomy	
		(-	,		□ No	pranned due to unsus	pected disease of anatomy	
					(If Yes com			
				Tricuspid Valve Procedure performed:	☐ Yes, pla	anned planned due to surgic	al complication	
				Frocedure performed.			pected disease or anatomy	
					□ No	r	,	
				D. 1. 17.1	(If Yes com			
				Pulmonic Valve Procedure performed:	☐ Yes, pla	nned planned due to surgic	al complication	
				Frocedure performed.			pected disease or anatomy	
					□ No		,	
				D'14	(If 'Yes' co			
Mechanical Assist De	avi as/Vantri avlan Ass	at Davison	□ Vas □ Na (If	'Yes" complete section		valve surgery data abs	straction? Yes No	
(Present on Admission			LI Tes LI No (II	res complete section	i L)			
Other Cardiac Proced	lure except Afib:	Ves nlanne	1					
			gical complication					
		_	ned due to unsuspe	cted disease or anatom	ny			
(If Yes, Complete Secti		No						
Afib Procedure : \Box	es No (If Yes, Cor	nplete Section	n M 1)					
	oid the surgeon provid			n?□Yes □ No				
Other Cardiac Proceed	lure, Congenital Proc	edure (Excep	ot <mark>Unicuspid</mark> , Bicus	spid, Quadricuspid Val	ve):□ Yes [☐ No (If Yes, Complete	e Section M 3)	
Other Non-Cardiac P	rocedure: \(\textbf{V} \text{ Vec } \(\text{\tin}\exititt{\texi}\text{\text{\text{\text{\text{\text{\texi}\text{\text{\text{\text{\texi}\text{\texi{\texi{\texi}\texitt{\text{\text{\text{\texi}\text{\texi}\texit{\te	No (If Voc. (Complete Section N					
Enter up to 10 CPT-1	Codes pertaining to	the surgery f	or which the data c	collection form was init	tiated:			
1		2		3	1	l	5	
6		7		8).	10.	
OR Entry Date And	<u>- Ι</u> Γime: / /	7	: (mm/de	d/yyyy hh:mm - 24 hr clo		·	10	
OR Exit Date And Ti				ld/yyyy hh:mm - 24 hr cl				
General Anesthesia: l		General Ane		edural Sedation : Ye				
	(If	General Anes	thesia Yes →) Intub			ng OR for this proced	lure	
					n OR for this	procedure		
Skin Incision Start D	ate and Time: /	/		□ No (mm/dd/yyyy hh:mm -	24 hr clock)			
Skin Incision Start D	ate and Time:/		<u></u> :	(mm/dd/yyyy hh:mm -	24 hr clock)			
Appropriate Antibiot		/	— — — — — — — — — — — — — — — — — — —	otic Administration Ti		Annronriate Antibioti	c Discontinuation: ++□	
☐ Exclusion			Yes □ No □ E			Yes □ No □ Exclu		
Temperature Measure			Tommonstern G	Duran:	gool CD	P venous return	Dladdar	
(If Yes→) Lowest T	emperature (°C):		Temperature So			Tympanic ☐ Rectal		
						outlet blood (CBP Ar		
					ary Artery [
_			<u></u>	□ Unknov	wn	·		
Lowest Intra-op Hem	-		Lowest Intra-op	Hematocrit :		Highest Intra-op Gl	ucose:	
	□ None	1						

☐ Combination	$(\text{If Combination} \longrightarrow) \qquad \qquad \textbf{Combination Plan:} \qquad \square \ \textbf{Planned} \qquad \square \ \textbf{Unplanned} \ (\text{If Unplanned} \downarrow)$
	Unplanned Reason: ☐ Exposure/visualization ☐ Bleeding
	☐ Inadequate size/ diffuse disease of distal vessel ☐ Hemodynamic instability (hypotension/arrhythmias)
	☐ Conduit quality and/or trauma ☐ Other
□ Full	(If Left Heart Bypass, Combination or Full ↓)
	Arterial Cannulation Insertion Site: (Select all that apply \(\)
	□ Aortic □ Axillary □ Femoral □ Innominate □ Other Venous Cannulation Insertion Site: (Select all that apply ↓)
	venous Cannulation Insertion Site: (Select all that apply)
	□ Femoral □ Pulmonary Vein □ Jugular □ SVC
	□ Rt. Atrial □ Lt. Atrial □ Other
	Cardiopulmonary Bypass Time (minutes):
Circulatory Arrest: Yes No	ocrit during CPB:
	ocht during CLD.
1	rest Without Cerebral Perfusion Time: (min)
Circulatory Art	rest With Cerebral Perfusion: Yes No Cerebral Perfusion Time: (min)
Perfusion = Yes	· · ·
	ory Arrest Time:(System Calculation)
Cooling Time	prior to Circ Arrest:mins
Aortic Occlusion: ☐ None – beating heart ☐ None – fibrillating heart	Aortic Cross clamp eart □ Balloon Occlusion
(If Aortic cross o	clamp or Balloon occlusion →): Cross Clamp Time: (min)
Cardioplegia Delivery: ☐ None ☐ Antegra	
(If Antegrade, Ret Cerebral Oximetry Used: ☐ Yes ☐ No	rograde or Both→) Type of Cardioplegia used: ☐ Blood ☐ Crystalloid ☐ Both ☐ Other
Intraop Blood Products: ☐ Yes ☐ No, Not	
$(If Yes \rightarrow)$ Red Blood Cell Units:	Platelet Dose Pack:
Fresh Frozen Plasma/ <mark>Plasma</mark>	Units: Cryoprecipitate Units:
	Ia Ves, Factor VIII Ves, FEIBA Ves, Composite No
Intraop Prothrombin Complex concentrate: [Yes □ No
Was intraop Antifibrinolytic Medication give	
(If Yes →) Intraop Antifibrinolytic Med	ication (select all that apply): ☐ Epsilon Amino-Caproic Acid ☐ Tranexamic Acid ☐ Aprotinin
Intraoperative TEE Performed post procedur	
Highest level aortic insuffici ☐ None ☐Trivial/Trace ☐	ency round: Mild □ Moderate □ Severe □ Not Documented
Mean Aortic Gradient:	-
Aortic Paravalvular leak:	
□ No Prosthetic Valve □ No Highest level Mitral insuffici	one Trivial/Trace Mild Moderate Severe Not Documented
	Mild □ Moderate □ Severe □ Not Documented
Mean Mitral Gradient:	
Mitral Paravalvular leak:	
□ No Prosthetic Valve □ No Highest level Tricuspid insuf	one Trivial/Trace Mild Moderate Severe Not Documented
	Mild □ Moderate □ Severe □ Not Documented
Mean Tricuspid Gradient:	
Tricuspid Paravalvular leak:	one D Trivial/Tuese D Mild D Medanate D Course D Not Document 1
	one □ Trivial/Trace □ Mild □ Moderate □ Severe □ Not Documented post procedure: □ Yes □ No (If Yes →) Ejection Fraction:
Surgery followed by a planned PCI: ☐ Yes	
5. y	
J. Coronary Bypass	

(If Coronary Artery Bypass = Yes ↓)

Internal Mammary Ar	tery (arteries) used:	++ □ Yes □	No			
(If Yes→) I	Left IMA: ☐ Yes, 1	pedicle 🗆 Y	es, skeletonized] No <mark>/NA</mark>		
(If Yes→)	Right IMA: □ Yes,	pedicle 🗆 Y	Yes, skeletonized	□ No <mark>/NA</mark>		
(If No→) F	Reason for no IMA:	stene	osis me revious cardiac \square	Previous diastinal radiation Emergent or vage procedure	☐ No (bypassable) LAD disease ☐ Other- acceptable STS provided exclusion (See Training Manual)	☐ Other not acceptable STS exclusion (See Training Manual)
Distal Anastomoses w	rith Arterial Condui	t(s) □ Yes □	No		(See Training Mandar)	(See Training Wandar)
(If Yes→)	Total Number of Dis	stal Anastomo	ses with Arterial Cor	nduits:		
	Distal Anastomo			Total Number of I	Distal Anastomoses with radial	artery conduits:
		□ !	Yes □ No (If Yes→)	Radial Artery Har	vest and Prep Time:	(minutes)
Distal Anastomoses w	vith Venous Condui	t(s) used: \square Y	es 🗆 No (If	Total Number of I	Distal Anastomoses with venou	s conduits:
Yes→)				Saphenous Vein H	arvest and Prep Time:	(minutes)
Proximal Technique:	☐ Single Cross Cla	mp 🗆 Partia	l Occlusion Clamp	☐ Anastomotic As		
						_
CABG Grid Key: (1						
Proximal Site:	1=A	.orta 2=T gra	aft off artery 3=T g	raft off vein 4=Ir	-situ IMA 5=Other	
Distal Site:			nary Artery (LMCA) al 7= RCA 8=F		Diagonal 4=Ramus Interme Lateral 10=Acute Marginal	
Distal Anastomosis	Conduit: 1=Ir	n-situ IMA 2	=Free IMA 3=Vei	n 4=Radial artery	5=Other	
Please use the key abo	ove and enter one					
Graft Number	Proxim	al Site	Distal Site	Conduit	Distal Position	Endarterectomy
#1	1-5 <mark>(dro</mark>	p downs)	1-11	1-5	☐ Side to Side ☐ End to	Side □ Yes □No
#2 □Additional Graft □ No Additional Gr	ts	-5	1-11	1-5	☐ Side to Side ☐ End to	o Side ☐ Yes ☐No
#3 □Additional Graft □ No Additional Gr		5	1-11	1-5	☐ Side to Side ☐ End to	o Side ☐ Yes ☐No
#4 □Additional Graft □ No Additional Gr		5	1-11	1-5	☐ Side to Side ☐ End to	Side □ Yes □No
#5 □Additional Graft □ No Additional Gr		5	1-11	1-5	☐ Side to Side ☐ End to	Side
#6 □Additional Graft □ No Additional Gr		5	1-11	1-5	☐ Side to Side ☐ End to	Side □ Yes □No
#7 □Additional Graft □ No Additional Gr		5	1-11	1-5	☐ Side to Side ☐ End to	o Side ☐ Yes ☐No
#8 □Additional Graft □ No Additional Gr		5	1-11	1-5	☐ Side to Side ☐ End to	o Side ☐ Yes ☐No
#9 □Additional Graft	1-	5	1-11	1-5	☐ Side to Side ☐ End to	Side □ Yes □No

□ No Ad	lditional Grafts							
	#10 tional Grafts Iditional Grafts	1-5	1-11	1-5	☐ Side to Side I	☐ End to Side	☐ Yes ☐No	
(If Valve Ex	Surgery Expla xplanted (ValExp) i alve Prosthesis E	s Yes ↓)						
	Explant Position	•	Iitral Tricuspid	☐ Pulmonic				
	Explant Type:	☐ Mechanical V	Valve ☐ Biopro	sthetic Valve	l Homograft	☐ Autog	<mark>raft</mark>	
		☐ Annuloplasty	Device □ Leafler	t Clin – – –	l Transcatheter Valve	☐ Transe	catheter Valve in Valve	
				·	Transcancter varve		thetic valve	
	Explant Etiolog	☐ Other y: ☐ Endocarditis	□ Unkno		l D4b -4i - D4 - 1i - 11-4i	D Th	.1.	
	Explaint Etiolog	☐ Failed Repair ☐ Hemolysis		s \square	l Prosthetic Deteriorati l Sizing/Positioning iss l Stenosis		_	
	Explant Device	known: Yes No (If Y	es→) Explant mode	l#:	Unique Device	Identifier (UDI	j:	
	Year of Implant	Known: Yes No (If)	es→) Year:					
Second	l Valve Prosthesi	s Explant:	f Yes↓)					
	Explant Position	:	Iitral Tricuspid	☐ Pulmonic				
	Explant Type:	☐ Mechanical V	alve ☐ Biopro	osthetic Valve	☐ Homograft	☐ Autograft		
		☐ Annuloplasty	Device ☐ Leafle	t Clip 🛛	☐ Transcatheter Valve		eter Valve in Valve with	
		☐ Other	□ Unkno	own		prosthetic va	ive	
	Explant Etiology	y: ☐ Endocarditis ☐ Failed Repair ☐ Hemolysis	· 🔲 <mark>Pan</mark>	ompetence i <mark>nus</mark> avalvular leak	☐ Prosthetic Deterior ☐ Sizing/Positionin ☐ Stenosis	g issue	romb <mark>us</mark> her ıknown	
	Explant Device	known: ☐ Yes ☐ No (If Ye	es→) Explant mode	l#:	Unique Device	Identifier (UDI)	:	
	Year of Implant	Known: ☐ Yes ☐ No (If Y	'es→) Year:					
Third V	Valve Prosthesis	Explant:	<mark>∕es↓)</mark>					
	Explant Positing	Aortic	Iitral Tricuspid	☐ Pulmonic				
	Explant Type:	☐ Mechanical V	⁷ alve □ Bio	oprosthetic Valve	☐ Homograft		l Autograft	
		☐ Annuloplasty	Device	aflet Clip	☐ Transcatheter		l Transcatheter Valve in alve with prosthetic valve	
		□ Other	□ Un	<mark>known</mark>		<u>*</u>	arve with prosincic varve	
	Explant Etiology	☐ Failed Repair ☐ Hemolysis	□ Par □ Par	ravalvular leak	☐ Prosthetic Det☐ Sizing/Positio☐ Stenosis	ning issue	l Thrombus l Other l Unknown	
	Explant Device	known: Yes No (If Yes	Explant mode	l#:	Unique Device	Identifier (UDI):	
	Year of Implant	Known: ☐ Yes ☐ No (If Y	es→) Year:					
K. 1. Aor	tic Valve <u>withou</u>	<u>ıt concomitant Aorta Prod</u>	edure					
	ortaProcPerf = No	<mark>) ↓)</mark>						
	Performed:	1						
⊔Rep	Dlacement: (If Rep Transcatheter V	Valve Replacement: ☐ Yes	□ No (If Yes ↓)					
	1	Approach: ☐ Transapical ☐ Transcarotid ☐ Transc	☐ Transaxillary	☐ Transfemoral ☐	Transaortic □ Subcl	avian 🔲 Trai	nsiliac	
		Replacement: \square Yes \square No						
	Device type: ☐ Mechanical ☐ Bioprosthetic ☐ Surgeon fashioned pericardium (Ozaki) ☐ Other							

		(If Bioprosthetic→)	Valve type: □	Stented Stentless sub co	oronary valve only Su	tureless/rapid deployment
		tion (If Repair/Reconstruction, selec	t all that apply \downarrow))		
Re	epair Type (S	elect all that apply)+				
		☐ Commissural suture annulopl	astv 🗆	Nodular release	☐ Leaflet resection	on suture
		☐ Leaflet plication		Leaflet shaving	☐ Leaflet pericard	
		-		· ·		
		☐ Leaflet commissural resusper			☐ Division of fus	-
		☐ Leaflet free edge reinforceme	ent 🗆	Ring annuloplastyexternal r	ing ☐ Ring annulopla	sty internal ring
			_			
		☐ External suture annuloplasty		Pannus/Thrombus Removal	(Native Valve)	
□ Surg	gical Prosthe	tic Valve Intervention (Not Expl	ant of Valve): (Select All That Apply ↓)		
Тур	e of Interve	ntion: □Repair of periprosthetic	leak Remov	al of pannus □ Removal of	clot □Other	
Aortic annula	ır enlargeme	nt: ☐ Yes ☐ No (If Yes ↓)				
	Technique	: □ Nicks-Nunez □ Manougi	an 🗆 Konno	☐ Other ☐ Unknown		
Replacement	of non-coro	nary sinus (Modified Wheat/Mod	dified Yacoub)	□ Yes □ No		
Aortic Valve		epair Device Implant: Yes	No (If Yes ↓)			
	_	Model Number:		Im	nplant Size:	
	Unique De	evice identifier (UDI):				
	<u> </u>					
K. 2. Mitral		edure erformed = Yes \(\)				
Procedure Per		aronned res ψ)				
☐ Repair	(If Repair↓)					
-		roach: Surgical Transcath	eter			
	ii buigicai (se	acct an that appry ()				
		□Annuloplasty	□Leaflet rese		□Neochords (PTFE)	□Chordal transfer
		□Annular decalcification/	□Leaflet exte	ension/replacement patch	☐Edge to edge repair	□Leaflet plication
		debridement ☐Mitral commissurotomy	☐Mitral com	missuroplasty	☐Mitral cleft repair: (scallop closure):	☐ Pannus/Thrombus removal (native valve)
		D (27)	-t Dti	Resection Location(s): □		
		(II Lealie	et Resection →)			
				Resection Method (select Triangular A		ar Alona
					th Sliding Valvuloplasty	il Alone
					th Folding Valvuloplasty	☐ Other
		(If Neoch	ords (PTFE) \rightarrow)	☐ Anterior ☐ Posterior	☐ Both ☐ Not Docume	<mark>nted</mark>
		(If Char	lal Transfer) →)	Antonion Chandal transf	on Dostorion Chardel	ransfer Not Documented
		(II Chord	$(ai Transfer) \rightarrow)$	☐ Anterior Chordal transf	er 🗀 Posterior Chordai i	ransfer Linot Documented
		(If Leaflet extension/replace	cement patch→)	Patch Location: ☐ Anterio	or Desterior Both	☐ Not Documented
	ement (If Rep					
		r attempted prior to replacement: ds preserved: ☐ Anterior ☐ Poste				
 	Transcathete	er replacement: Yes No		1 Notic		
☐ Surgi	cal Prostheti	ic Valve Intervention (Not Explan	nt of Valve): (S	select All That Apply ↓)		
	Type of Inte	ervention: 🗆 Repair of periprosth	netic leak 🛚 Re	emoval of Pannus	oval of Clot Other	
Insulanti 🗆 X	7 DN - /	/TC 37				
Implant: ☐ Y	res 🗆 No ((If Yes ↓) ☐ Mechanical valve	□ Tr	ranscatheter device implanted	d open heart	
		☐ Bioprosthetic valve ☐	☐ Tr	anscatheter Replacement De	evice (Transapical)	
		Annuloplasty Ring Surgical		anscatheter Replacement De		
Implant ty	pe:	☐ Annuloplasty without ring (pericardial or suture)		nnuloplasty Ring Transcathe itral Leaflet clip	eter	
				1		
		(If Mitral Leaflet Clip	→) Number im	ner nplanted: (ent	er 1-3)	
	Iodel Numbe			Implant Size:		_
		fier (UDI):				
K.3. Tricuspio	d Valve Pro	cedure				

(ICT : :1X/ 1	I D 1 D	C 137 L	`				
(If Tricuspid Val)				
Tricuspia Trock	edure i cironii	ca					
☐ Repair:	(If Repair, selec						
	nnuloplasty		eter Clip/Dev		Resection		s Removal (Native Valve)
	nnuloplasty→)	Type of	f Annuloplasty	r: ☐ Pericardiur	m □Suture	☐ Prosthetic Ring ☐	Prosthetic Band
	ment: (If Yes↓)						
	nscatheter Rep						
□Surgical	Prosthetic Val	lve Intervention	on (Not Expla	nt of Valve): (S	elect All Tha	it Apply ↓)	
Typ	e of Interventi	on: D Repair	of periprosthe	tic leak Ren	noval of Pa	nnus Removal of C	lot Other
	es \square No (If Y		or periprosure	tie ieak 🗀 Ken	novar or r a	inus 🗀 Removaror e	lot Bottler
	ant Type:	[Mechanical Varianscatheter of columns of the column	<mark>levice</mark> 🗆 Tr	nnuloplasty anscatheter		Bioprosthetic Valve ☐ Homograft Other
Impl	ant Model Nu		•		:		
Unio	ue Device Ide	entifier (UDI):					
Valvectomy:		muner (CDI).					
K. 4. Pulmoni							
(If Pulmonic Va		erformed = Yes	; ↓)				
	formed: eaflet Reconstr r Thrombus re						
□ Replacem		If Replacement	→) Trans	catheter Replac	ement: 🗆 `	Yes □ No	
☐ Valvector		•		· · · · · · · · · · · · · · · · · · ·			
Implant: ☐ Ye	s D No (If V	ng.)					
ппріант. 🗀 Те			DCumasan Es	shioned □Con	nom amai aller	Cumplied	
	Implant Typ	-	-		-		7.04
			Fashioned \rightarrow)		TFE (Gore-	Tex) ☐ Pericardium ☐	
		(If Commercia	ally Supplied →	Device Type:		☐ Mechanical Valve	☐ Annuloplasty Device
						☐ Bioprosthetic Valve	e □ Homograft
						☐ Transcatheter Valv	_
							e implanted open heart
	Implant Ma	adal Numbar			Siza		2 implanted open heart
	_				Size.		
	Unique De	vice Identifier	(UDI):				
L. Mechanica	al Cardiae A	eciet Dovice	ne .				
				eliver a minim	um of 5.0 I	of flow using an open	surgical approach (transaxillary or transaortic)
during the inde						doing an open	purgicul approach (transasmary of transactive)
Intra-Aortic Bal	Ioon Pump (IA BP Insertion: *						
		•	ш шиаор ц	1 Postop			
ECMO: \(\square\) Yes							
ECI	MO Initiated:	** 🗆 Preop	☐ Intraop	erial <mark>□ Veno</mark> □ Postop □ N			no-venous arterial (VVA)
Temporary Assi							
	ition: 🗆 Open		r Based				
Тур	e: 🗆 RV 🗀 1	LV BiV					
Wh	en Inserted: **	* □ Preop □	☐ Intraop ☐	Postop			
Was patient adn	nitted with VA	AD □ Yes □	No (If Yes ↓)				
Inse	ertion date: _ /	//					
Dev	rice Model Nu	mber:			IJ	DI:	
Pre	vious VAD Ex	xplanted Durir	ng This Admis	ssion:		Yes, not during this proc	
						Yes, during this procedu No	re

Ventricular Assis	t Device Implanted of	luring this hospitalization 🗆 Yes [□ No							
(Use Key to comple		dropdown lists in software)								
Timing:			or to OR trip for CV surgical procedu	re)						
		D procedure (Not in conjunction v								
		with CV surgical procedure (same t								
		with CV surgical procedure (same t								
MAD	5. Post-Operative (after surgical procedure during reoperation) VAD 1. Bridge to Transplantation Type: 1. Right VAD (RVAD) VAD 1. Cardiac Transplant									
VAD			tht VAD (RVAD) VAD	1. Cardiac Transplant						
Implant Indication:	2. Bridge to Recov3. Destination		t VAD (LVAD) Explant rentricular VAD Reason:	Recovery Device Transfer						
indication:	4. Post cardiotomy			4. Device-Related Infection						
	Failure		ral Artificial Heart	5. Device Malfunction						
	5. Device Malfunc			6. End of (device) Life						
	6. End of (device)	,	,	o. End of (device) Life						
	7. Salvage	Liic								
	_									
Device:	See VAD list									
(TCX/ '1 1		* * 1 (1)								
	ta on up to 3 separate de		2-1 desire ile-4-19 V D	3rd Device implanted? ☐ Yes ☐ No (If						
VAD IMPLANT	I (S)	Initial implant	2nd device implanted?□ Yes □	Yes \(\)						
m: :			No (If Yes ↓)	i es \(\)						
Timing										
Indication										
Type										
Device		1 1	/ /							
Implant Date		//	<u></u>							
UDI										
UDI										
		T. '4'-1	2.11	2.10.1						
		Initial explant	2nd device explanted?	3rd Device explanted						
VAD Explant(s) ☐ Yes, not during this procedure ☐ Yes, not during this procedure ☐ Yes, not during this procedure										
VAD Explant(s)		,	☐ Yes, during this procedure ☐ Yes, during this procedure ☐ Yes, during this procedure							
VAD Explant(s)		☐ Yes, during this procedure	☐ Yes, during this procedure	, & 1						
		☐ Yes, during this procedure ☐ No		☐ Yes, during this procedure ☐ No						
(If Yes, not du	uring this procedure or	☐ Yes, during this procedure	☐ Yes, during this procedure	, & 1						
(If Yes, not du		☐ Yes, during this procedure	☐ Yes, during this procedure	, 5						
(If Yes, not du Yes, during this p	uring this procedure or procedure →) Reason	☐ Yes, during this procedure	☐ Yes, during this procedure	, & 1						
(If Yes, not du Yes, during this p	uring this procedure or procedure →) Reason	☐ Yes, during this procedure	☐ Yes, during this procedure	, & 1						
(If Yes, not du Yes, during this p	uring this procedure or procedure →) Reason	☐ Yes, during this procedure	☐ Yes, during this procedure	, & 1						
(If Yes, not du Yes, during this p	uring this procedure or procedure →) Reason	☐ Yes, during this procedure	☐ Yes, during this procedure	, & 1						
(If Yes, not du Yes, during this p	uring this procedure or procedure →) Reason ring this procedure →) Date	☐ Yes, during this procedure	☐ Yes, during this procedure	, & 1						
(If Yes, not du Yes, during this p	ring this procedure or procedure →) Reason ring this procedure →) Date	☐ Yes, during this procedure ☐ No//	☐ Yes, during this procedure ☐ No //	□ No						
(If Yes, not du Yes, during this p (If Yes, not dur M. Other Car (If Other Cardiac P	ring this procedure or procedure →) Reason ring this procedure →) Date diac Procedures rocedure, Except Afib	☐ Yes, during this procedure ☐ No // = Yes ↓) See Proc ID Table to determin	☐ Yes, during this procedure ☐ No /_/ e whether these procedures impact isolate	□ No						
(If Yes, not du Yes, during this p (If Yes, not dur M. Other Car (If Other Cardiac P	ring this procedure or procedure →) Reason ring this procedure →) Date diac Procedures rocedure, Except Afib	☐ Yes, during this procedure ☐ No//	☐ Yes, during this procedure ☐ No /_/ e whether these procedures impact isolate	□ No						
(If Yes, not du Yes, during this p (If Yes, not dur (If Yes, not dur M. Other Carr (If Other Cardiac P Subaortic Stenosi	ring this procedure or procedure →) Reason ring this procedure →) Date diac Procedures rocedure, Except Affb = is Resection: Musc	☐ Yes, during this procedure ☐ No ☐ No ☐ No ☐ Yes ↓) See Proc ID Table to determing the ☐ Membrane ☐ Other ☐ Not	☐ Yes, during this procedure ☐ No /_/ e whether these procedures impact isolate	□ No						
(If Yes, not du Yes, during this p (If Yes, not dur (If Yes, not dur M. Other Carr (If Other Cardiac P Subaortic Stenosi	ring this procedure or procedure →) Reason ring this procedure →) Date diac Procedures rocedure, Except Affb = is Resection: Musc	☐ Yes, during this procedure ☐ No // = Yes ↓) See Proc ID Table to determin	☐ Yes, during this procedure ☐ No /_/ e whether these procedures impact isolate	□ No						
(If Yes, not du Yes, during this public during the following	diac Procedures rocedure, Except Afib = is Resection: ☐ Musc	☐ Yes, during this procedure ☐ No ☐ No ☐ No ☐ Yes ↓) See Proc ID Table to determing the ☐ Membrane ☐ Other ☐ Note ☐ No	☐ Yes, during this procedure ☐ No —/_/ e whether these procedures impact isolate procedures in procedures impact isolate procedures impact isolate procedures impact isolate procedures impact isolate procedures impact isol	□ No						
(If Yes, not du Yes, during this public of the Cardiac Pulmonary Through Myocardial Stem	diac Procedures rocedure, Except Afib = is Resection: Musc Mus	□ Yes, during this procedure □ No □ No □ No □ Yes ↓) See Proc ID Table to determine le □ Membrane □ Other □ Not □ No □ No	□ Yes, during this procedure □ No □ No □ Volume these procedures impact isolate procedures in procedures impact isolate procedures in proce	No No Procedure categories						
(If Yes, not du Yes, during this public of the Cardiac Pulmonary Through Myocardial Stem	diac Procedures rocedure, Except Afib = is Resection: Musc Mus	□ Yes, during this procedure □ No □ No □ No □ Yes ↓) See Proc ID Table to determine le □ Membrane □ Other □ Not □ No □ No	☐ Yes, during this procedure ☐ No —/_/ e whether these procedures impact isolate procedures in procedures impact isolate procedures impact isolate procedures impact isolate procedures impact isolate procedures impact isol	No No Procedure categories						
(If Yes, not du Yes, during this public of the Cardiac Pulmonary Through Myocardial Stem Arrhythmia Devi	diac Procedure or Date diac Procedures rocedure, Except Afib = is Resection: ☐ Musc mboembolectomy ☐ in Cell Therapy: ☐ Y ice: ☐ Pacemaker ☐	□ Yes, during this procedure □ No □ No □ No □ Yes ↓) See Proc ID Table to determine le □ Membrane □ Other □ Not □ No □ No	□ Yes, during this procedure □ No □ No □ Volume these procedures impact isolate procedures in procedures impact isolate procedures in proce	No No Procedure categories						
(If Yes, not du Yes, during this public of the Cardiac Pulmonary Through Myocardial Stem	diac Procedure or Date diac Procedures rocedure, Except Afib = is Resection: ☐ Musc mboembolectomy ☐ in Cell Therapy: ☐ Y ice: ☐ Pacemaker ☐	□ Yes, during this procedure □ No □ No □ No □ Yes ↓) See Proc ID Table to determine le □ Membrane □ Other □ Not □ No □ No	□ Yes, during this procedure □ No □ No □ Volume these procedures impact isolate procedures in procedures impact isolate procedures in proce	No No Procedure categories						
(If Yes, not du Yes, during this public of the Carting	diac Procedure →) Date diac Procedures rocedure, Except Afib = is Resection: Musc mboembolectomy in Cell Therapy: Yes Yes No	□ Yes, during this procedure □ No □ No □ No □ Yes ↓) See Proc ID Table to determine the □ Membrane □ Other □ Not □ No □ Pacemaker with CRT □ ICD □	□ Yes, during this procedure □ No e whether these procedures impact isolate □ Documented □ No LV Aneurysm Repair: □ Yes □ No ICD with CRT □ Implantable Recor	orocedure categories der □ None						
(If Yes, not du Yes, during this processed of the Yes, not dured the Y	diac Procedure or Date diac Procedures rocedure, Except Afib = is Resection: ☐ Musc mboembolectomy ☐ Yes ☐ No Yes ☐ No	□ Yes, during this procedure □ No □ No □ Ves ↓) See Proc ID Table to determine □ Membrane □ Other □ Not □ No □ Pacemaker with CRT □ ICD □ □ Yes, unplanned due to surgical co	□ Yes, during this procedure □ No e whether these procedures impact isolate □ Documented □ No LV Aneurysm Repair: □ Yes □ No ICD with CRT □ Implantable Recor	No No Procedure categories						
(If Yes, not du Yes, during this processed of the Yes, not dured the Y	diac Procedure →) Date diac Procedures rocedure, Except Afib = is Resection: Musc mboembolectomy in Cell Therapy: Yes Yes No	□ Yes, during this procedure □ No □ No □ Ves ↓) See Proc ID Table to determine □ Membrane □ Other □ Not □ No □ Pacemaker with CRT □ ICD □ □ Yes, unplanned due to surgical co	□ Yes, during this procedure □ No e whether these procedures impact isolate □ Documented □ No LV Aneurysm Repair: □ Yes □ No ICD with CRT □ Implantable Recor	orocedure categories der □ None						
(If Yes, not du Yes, during this parties, during this parties, not during the	diac Procedure →) Date diac Procedures rocedure, Except Afib = is Resection: Musc M	□ Yes, during this procedure □ No □ No □ /_/ = Yes ↓) See Proc ID Table to determine le □ Membrane □ Other □ Not □ No □ Pacemaker with CRT □ ICD □ □ Yes, unplanned due to surgical co	□ Yes, during this procedure □ No e whether these procedures impact isolate □ Documented □ No LV Aneurysm Repair: □ Yes □ No ICD with CRT □ Implantable Recor	orocedure categories der □ None						
(If Yes, not du Yes, during this parties, during this parties, not during the	diac Procedure or Date diac Procedures rocedure, Except Afib = is Resection: ☐ Musc mboembolectomy ☐ Yes ☐ No Yes ☐ No	□ Yes, during this procedure □ No □ No □ /_/ = Yes ↓) See Proc ID Table to determine le □ Membrane □ Other □ Not □ No □ Pacemaker with CRT □ ICD □ □ Yes, unplanned due to surgical co	□ Yes, during this procedure □ No e whether these procedures impact isolate □ Documented □ No LV Aneurysm Repair: □ Yes □ No ICD with CRT □ Implantable Recor	orocedure categories der □ None						
(If Yes, not du Yes, during this parties, during this parties, not during the	diac Procedure →) Date diac Procedures rocedure, Except Afib = is Resection: Musc M	□ Yes, during this procedure □ No □ No □ /_/ = Yes ↓) See Proc ID Table to determine le □ Membrane □ Other □ Not □ No □ Pacemaker with CRT □ ICD □ □ Yes, unplanned due to surgical co	□ Yes, during this procedure □ No e whether these procedures impact isolate □ Documented □ No LV Aneurysm Repair: □ Yes □ No ICD with CRT □ Implantable Recor	orocedure categories der □ None						
(If Yes, not du Yes, during this parties, during this parties, not during the	diac Procedure →) Date diac Procedures rocedure, Except Afib = is Resection: Musc M	□ Yes, during this procedure □ No □ No □ /_/ = Yes ↓) See Proc ID Table to determine le □ Membrane □ Other □ Not □ No □ Pacemaker with CRT □ ICD □ □ Yes, unplanned due to surgical co	□ Yes, during this procedure □ No e whether these procedures impact isolate □ Documented □ No LV Aneurysm Repair: □ Yes □ No ICD with CRT □ Implantable Recor	orocedure categories der □ None						
(If Yes, not du Yes, during this parties, during this parties, not during this parties, not during the Yes, not during the Ye	diac Procedure →) Date diac Procedures rocedure, Reason mboembolectomy n Cell Therapy: □ Y ice:□ Pacemaker □ Yes, planned □ revascularization (T) ma □ Fibroelastoma diac:□ Yes □ No	□ Yes, during this procedure □ No □ No □ /_/ = Yes ↓) See Proc ID Table to determine le □ Membrane □ Other □ Not □ No □ Pacemaker with CRT □ ICD □ □ Yes, unplanned due to surgical co	□ Yes, during this procedure □ No e whether these procedures impact isolate □ Documented □ No LV Aneurysm Repair: □ Yes □ No ICD with CRT □ Implantable Recor	orocedure categories der □ None						
(If Yes, not du Yes, during this particle) M. Other Car (If Yes, not dur M. Other Car (If Other Cardiac Particle) Subaortic Stenosi Pulmonary Throm Myocardial Stent Arrhythmia Device Lead Insertion: Lead Extraction: Transmyocardial Tumor:□ Myxon Transplant, Cardiac	diac Procedure →) Date diac Procedures rocedure, Description Descr	□ Yes, during this procedure □ No □ No □ /_/ = Yes ↓) See Proc ID Table to determine le □ Membrane □ Other □ Not □ No □ Pacemaker with CRT □ ICD □ □ Yes, unplanned due to surgical co	□ Yes, during this procedure □ No e whether these procedures impact isolate □ Documented □ No LV Aneurysm Repair: □ Yes □ No ICD with CRT □ Implantable Recor	orocedure categories der □ None						
(If Yes, not du Yes, during this particle) M. Other Care (If Other Cardiac Particle) Pulmonary Throm Myocardial Stem Arrhythmia Deviated Extraction: Lead Extraction: Transmyocardial Tumor: Myxordial Transplant, Cardiac Acquired VSD R	diac Procedure →) Date diac Procedures rocedure, Except Alb = is Resection: Musc mboembolectomy A Cell Therapy: Yes No Yes, planned revascularization (Truma Fibroelastoma iac: Yes No Yes No Yes No Yes No No No Yes No No No Yes No	□ Yes, during this procedure □ No □ No □ /_/ = Yes ↓) See Proc ID Table to determing the □ Membrane □ Other □ Note □	□ Yes, during this procedure □ No e whether these procedures impact isolate □ Documented □ No LV Aneurysm Repair: □ Yes □ No ICD with CRT □ Implantable Recor	orocedure categories der □ None						
(If Yes, not du Yes, during this processed (If Yes, not during this processed (If Yes, not during the Yes	diac Procedure →) Date diac Procedures rocedure, Description Descr	□ Yes, during this procedure □ No □ No □ /_/ = Yes ↓) See Proc ID Table to determing the □ Membrane □ Other □ Note □	□ Yes, during this procedure □ No	orocedure categories der □ None						

PFO Repair : ☐ Yes ☐ No						
M.1. Atrial Fibrillation P	rocedures					
(If If Afib Procedure = Yes ↓)						
			ed occlusion device \square nce \square Other \square No	Epicardial S	Staple □ Epicardial Suture □	Endocardial Suture
				OI:		
Left Atrial Appendage Ampu	itation: 🗆 Yes 🗀 N	<u>10</u>	•			
Lesion location: Epicardia	al Intracardiac	Both □	None			
(if not None, select al	II that apply) \rightarrow	□ Radio	ofrequency Cut-a	nd-sew [☐ Cryo	
,					•	
Lesions Documented: ☐ Yes	(If Radio	requency-	→)]	Bipolar: ☐ Yes ☐ No ☐ Not	Documented
Ecsions Documented. 🗀 Tes	Left Atrial	☐ Yes			ary Vein Isolation Posterio	
		(If Yes,	select all that apply \rightarrow)	☐ Mitral I	Line Left atrial appendage lial Coronary Sinus Lesion	line
				☐ Epicard	ial Posterior Wall Other (i.e. C	Convergent procedure) 🗆 Other
	Right Atrial	□ Yes			ne □ IVC Line □ Tricuspid	
		(If Yes,	select all that apply \rightarrow)	□ Verticle	e Right Atrial Line	trial Appendage Line Other
M.2. Aorta And Aortic R	oot Procedures					
(If AortProc = Yes ↓) Family history of disease of a	orta:	√sm □	Dissection	Aneurysm a	nd Dissection ☐ Sudden De	eath □ Unknown□ None
Patient's genetic history:			ers-Danlos	Dietz N	on-Specific familial thoracic a ☐ Other- ☐ Unknown ☐ N	ortic syndrome
	Aortic	v aive ivi	orphology in rumer	syndronic	L Other- L Chridwii L IV	one
Prior aortic intervention:	☐ Yes ☐ No ☐ U	Jnknown				_
Location	Previous repair location(s)		Repair Type		Repair failure (If Yes ↓)	Disease progression $(\text{If Yes }\downarrow)$
	Select all that appl	y	Select all that apply	y	Select all that apply	Select all that apply
Root (Zone 0 –A)	☐ Yes ☐ No		pen Endovascular Endovascular		☐ Yes ☐ No	☐ Yes ☐ No
Ascending (Zone 0 – B&C) Arch (Zones 1,2,3)	☐ Yes ☐ No ☐ Yes ☐ No		pen □ Endovascular □ pen □ Endovascular □		☐ Yes ☐ No ☐ Yes ☐ No	☐ Yes ☐ No ☐ Yes ☐ No
Descending (Zones 4,5)	☐ Yes ☐ No		pen □ Endovascular □		□ Yes □ No	□ Yes □ No
Suprarenal abdominal (Zones 6,7)	□ Yes □ No	ОΩ	pen □ Endovascular □	□ Hybrid	□ Yes □ No	□ Yes □ No
Infrarenal abdominal (Zone 8,9,10,11)	□ Yes □ No	ПΟ	pen □ Endovascular 🏻	☐ Hybrid	□ Yes □ No	□ Yes □ No
Current Procedure with Endol	leak involvement:	□ Yes	□ No			
	(If	$(es \rightarrow)$	Type I: leak at graft			. 187 11
					ation: ☐ Ia-proximal ☐ Ib -di branch vessel: ☐ Yes ☐ No	stal L Ic- iliac occluder
					f vessels: IIa: single vessel	☐ IIb: two vessels or more
			Type III: leak throug			
			(If Yes \rightarrow)		ct type: IIIa: junctional sepa dograft fractures or holes	aration of modular components
			Type IV: leak through	gh graft fabr	ic – porosity: ☐ Yes ☐ No	
					n aneurysm sac without leak: [☐ Yes ☐ No
Current Procedure with Aorta	Infection:	□ Yes	□ No			
			Aorta Infection Typ		1 12 53	1 12 13 2
		(If Yes —	☐ Graft infection ☐ Multiple infection	⊔ Valvular 1 types	endocarditis 🗀 Nonvalvula	r endocarditis Native aorta
Comment Day 1 1 11 17		☐ Yes	∏ No			
Current Procedure with Traun	IIa.		Root			
	(If Yes, select all that	ıt apply —	☐ Ascending			
			☐ Arch ☐ Descending ☐ ☐	Choresoska-	minal	
			☐ Abdominal		iiiiiai	
			rest □ Syncope □ Ir		Asymptomatic	
	njury related to Sur Other Unknown	gicai COI		ocnett 		
			15	5		

		(If Neuro I	Deficit→)	□ Stroke	☐ Limb nu	mbne	ess □ Paralysis □ Hoa	arseness (<mark>acute</mark> vocal	cord dysfunction)
Primary Indicati	on:	neurysm Dissect	ion 🗆 Oth	er					
	Etiology:	☐ Ulcerative	Plaque/Per	netrating	Ulcer □ Psei	udoan	☐ Connective Tissue/Sineurysm ☐ Mycotic ☐ Toldard Morpholo	Fraumatic transection	
(*C)	Type:	☐ Fusiform						67	
$(if Aneurysm \rightarrow)$	Rupture:	☐ Yes ☐ No	$(\text{If Yes} \rightarrow)$	Contai	ined rupture:	□ Ye	es 🗆 No		
	Location of	□ Relow STI	I □ STI_m	idascend	ling Midas	scend	ing to distal ascending		
	Maximum Diameter:						S □ Zone 6 □ Zone 7 □	Zone 8 □ Zone 9 □	Zone 10 Zone 11
	Timing:	☐ Acute on C	Chronic 🗆	Unknow	'n	/eeks)	☐ Subacute (2weeks -	<90 days) □ Chron	ic (90 days or more)
	_	nset date known 🗆 Y	les □ No	(If Yes-	→) Date of	onse	t://		
	Primary tear location:						ling to distal ascending	Zone 8 □ Zone 9 □	Zone 10 🗆 Zone 11
	Proximal Dis	ssection Extent Know		□ No □	□Unknown				
	(If Ye	Most Proxima Dissection Lo					idascending ☐ Midascer Zone 3 ☐ Zone 4	nding to distal ascend	ling
	Distal Dissec	ction Extent Known:	□ Yes □	No □ U	Jnknown				
	$(\text{If Yes} \rightarrow) \begin{array}{ c } \hline I \\ I \\ \hline \end{array}$	Distal Dissection Ext Location:	tension	☐ Zone	w STJ □ STJ 1 □ Zone 2 l 9 □ Zone 10	□ Zo	ascending ☐ Midascend ne 3 ☐ Zone 4 ☐ Zone 5 Zone 11	ling to distal ascendi 5 □ Zone 6 □ Zone	ng 7 □ Zone 8
	Stanford Clas	ssification: Type	А 🗆 Туре	B 🗆 U	nknown 🗆 O	ther			
$(if \ Dissection \rightarrow)$		issection caused by): □Y	es □ No		
		n 30 days post TAV							
	Patient within	n 30 days Post Other	Cath Proc	edure [∃Yes □ No [□ Un	known		
	Malperfusion	n: 🗆 Yes 🗆 No 🗀 🛚	Unknown						
	(If V .)	Malperfusion Typ	e: (select all	that apply	y):				
	$(If Yes \rightarrow)$								
		□Coronary		□Super	rior Mesenter	ic	□Right Subclavia	□Renal, left	
		□Right Common	Carotid	□Renal	l. right		□Left Common Carotic	d □Iliofemoral	
		□Left Subclavian		□Spina	1		□Celiac		
	Lower Extrer	mity Motor Function	. □ No det	-		Paralys	sis 🗆 Unknown		
		mity Sensory Deficit				arary.	SIS LI CIRRIOWII		
	Rupture:								
	$(\text{If Yes} \rightarrow)$	Contained rupture:		Yes □ N	No				
		Rupture Location:		Zone 1	☐ Zone 2 ☐	Zone	cending □ Midascendin 3 □ Zone 4 □ Zone 5 l e 10 □ Zone 11		
$(\text{If Other} \rightarrow)$		Dysfunction □ Sternated to Surgical Com					atoma	☐ Endoleak ☐ Info	ection ection
	1								
Additional Ana									
		r ectasia: □ Yes □							
D.					nown (If Yes	\rightarrow)]	Dilation Location: Ri	ght 🗆 Left 🗆 Non-c	oronary
Root	Sinus of Valsaneurysm:	alva □ Yes	□ No □ U	Jnknown f Yes →)	3 V Anemy	sm Lo	ocation (select all that ap	<mark>pply)</mark> : □ Right □ Le	eft □ Non-coronary
Arch Anomalies	□Yes □No	(If Yes↓)							
	Arch Anomal	lies Type(s): select a	ll that appl	y					
	□Arch Type	Right	□Aberr	ant Right	t Subclavian		□Kommerell/Ductus	Bulge	
	□Variant ver	rtebral origin	□Aberr	ant Left S	Subclavian:		□Bovine:		
Patent internal r	mammary arter	ry bypass graft:		□ Yes □	l No □ N/A				
Ascending	Asymmetric l	Dilatation:	□ Yes □	No □ U	Inknown				
	_	onary bypass grafts:	□ Yes □	No □ U	Inknown				

Measurements (Largest	Diameter)						
Treated Zone with the La	ract Diameter	☐ Below STJ ☐ STJ-☐ Zone 1 ☐ Zone 2 ☐		ascending-distal ascending			
	rgest Diameter.		☐ Zone 9 ☐ Zone 10 ☐ Zone 11				
Measurement:			mm				
Method Obtained:	nod Obtained: ☐ 3D or 4D Reconstruction ☐ PreOp CT ☐ PreOp MRI ☐ PreOp Echo ☐ Intra Operatively						
Proximal to Treated Zone	e(s) (Largest Diameter)) Available: □Yes □No		STJ STJ-midascending Midascending-distal ascending			
				☐ Zone 3 ☐ Zone 4 ☐ Zone 5 ☐ Zone 6 ☐ Zone 9 ☐ Zone 10 ☐ Zone 11			
		$(\text{If Yes} \rightarrow)$		mm			
			Method Obtained:	☐ 3D or 4D Reconstruction ☐ PreOp CT ☐ PreOp MRI			
Distal to Treated Zone(s)	(Largest Diameter) A	vailable: □Yes □No		□ PreOp Echo □ Intra Operatively TJ □ STJ-midascending □ Midascending-distal ascending			
				2 □ Zone 3 □ Zone 4 □ Zone 5 □ Zone 6 3 □ Zone 9 □ Zone 10 □ Zone 11			
		$(\text{If Yes} \rightarrow)$	Measurement:	mm			
			Method Obtained:	☐ 3D or 4D Reconstruction ☐ PreOp CT ☐ PreOp MRI			
				☐ PreOp Echo ☐ Intra Operatively			
Intervention							
(If Aorta Procedure Perform	ned = Yes ↓)						
Aortic Valve or Root Pro	cedure Performed:	☐ Yes, planned ☐ Yes disease or anatomy ☐ I (If Yes \downarrow)		argical complication Yes, unplanned due to unsuspected			
Procedure Performe	ed:	*/					
☐ Replacement (If	Replacement\(\)						
Tran	scatheter Valve Repla	cement: ☐ Yes ☐ No					
	Yes →) Approach: □	Transapical Transaxil		I ☐ Transaortic ☐ Subclavian			
Sura	☐ Other ☐ ☐	<u> </u>	☐ Transcarotid.	Transcaval			
_	Yes →) Device type:		Bioprosthetic □ Su	rgeon fashioned pericardium (Ozaki)			
				ss sub coronary valve only Sutureless/rapid deployment			
☐ Repair/Reconst	ruction (If Repair/Recor			so due coronary varie only a successorapia deproyment			
	air Type (Select all that						
	ommissural suture anr		Nodular Release	☐Leaflet resection suture			
□Le	eaflet plication		Leaflet Shaving	☐Leaflet pericardial patch			
□Le	eaflet commissural resu	uspension suture	Leaflet debridement	□Division of fused leaflet raphe			
□Le	eaflet free edge reinfor	cement (PTFE)	☐Ring annuloplasty ex	ternal ring			
□Ех	xternal Suture Annulop	plasty	Pannus/Thrombus re	moval (native valve)			
□Surgical Prosthe	etic Valve Intervention	: (Not Explant of Valve) :	(If Surgical Prosthetic V	/alve Intervention, Select All That Apply↓)			
Type	e of Intervention: □Re	epair of periprosthetic leak	☐ Removal of pann	us ☐ Removal of clot ☐ Other			
Aortic annular enl	argement □ Yes □ No	0					
(If Yes →) Tech	nnique: Nicks-Nune	z 🗆 Manougian 🗆 K	Konno □ Other □] Unknown			
Replacement of no	on-coronary sinus (Mo	dified Wheat/Modified Ya	acoub) □Yes □ No				
Root Procedure:	Yes □ No (If Yes↓)						
Root Re	placement with corona	ary Ostial Reimplantation	□ Yes □ No				
	$(\text{If Yes} \rightarrow) \square \mathbf{Com}$	posite Valve Conduit	Valve Sparing Root				
	(If Composite Valve Conduit →) Mechanical □ Bioprosthetic □ Homograft Root Replacement □ Autograft with Native Pulmonary Valve (Ross)						

						(If Biopre		nted Valve Conduit Intless Biologic Full R		s Valve Conduit
						□ Valve	sparing root reimp		.001	
				(If Va	lve Sparing Root \rightarrow)		sparing root remo			
								struction (Florida Sle	eeve)	
			Reimplantat	ion:	□No □Direct to Root P □With Vein Graft □With Dacron Grebridement withou	Extension aft Extens	(SVG Cabrol) ion (Classic Cabro			
		□ Yes □			• • • • • • • • • • • • • • • • • • •	· • • • • • • • • • • • • • • • • • • •	00 			
(If Aor	tProc = Yes	s .l.)								
`		*/	Procedure	Yes [☐ No (If Yes ↓)					
	Proximal	Location:	☐ STJ-midaso	cending	g Midascending to	o distal ascer	nding Zone 1 Z	one 2 🗆 Zone 3		
	D' (1 T	,	10 /II 1							
		-	-		☐ Clamped	77 25	17 207	4		
			_		miarch Zone 1			4		
			•		Frozen Elephant t					
					□ No (If Yes ↓ - sele		<u> </u>			
		Arch Bran	ch Location	•	nominate eft Subclavian		t Subclavian Vertebral	□Right Common (□Other	Carotid	□Left Common Carotid
Open	Surgical D	Descending	Thoracic A		Thoracoabdomina					
_	Proximal							3 □ Zone 4 □ Zone 5	i	
	□ Zo	one 6 🏻 Zo	ne 7 🗆 Zon	e 8 □	Zone 9		2 2010 2			
		-	ntation: 🗆 Y	es 🗆 1	No					
	Distal Lo	cation:	□ Zone	3 🗆 2	Zone 4 🗆 Zone 5	☐ Zone 6	□ Zone 7 □ Zor	ne 8 🗆 Zone 9 🗆 Zo	one 10 🗆	Zone 11
	Visceral v	essel inter	vention: 🗆 `	Yes 🗆	No (If Yes \downarrow)					
		Celiac: □	l Reimplanta	ation l	☐ Branch Graft ☐	l None				
		Superior	mesenterio	e: 🗆 I	Reimplantation [Branch	Graft □ None			
		Right Rei	nal: 🗆 Reim	planta	tion 🗆 Branch Gr	aft 🗆 Non	e			
		Left Rena	ıl: 🗆 Reimp	lantati	on Branch Grat	ft 🗆 None				
Endova	ascular Pro	ocedure(s)	: □ Yes □	No (If	Yes ↓)					-
	Access:	id □LV		ral 🗆	Iliac □ Abdomin	al Aorta □	l Lt. Subclavian/ <mark>A</mark>	<mark>xil</mark> a □ Rt. Subclavia	an/ <mark>Axil</mark> a [☐ Ascending Aorta
			ess: Yes	□ No						
	Proxima	ıl landing z		Zone	v STJ □ STJ-mida 1 □ Zone 2 □ Zon 8 □ Zone 9 □ Zon	ne 3 🗆 Zon	ie 4 🗆 Zone 5 🗓 2			
	Distal la	inding zone		Zone	v STJ □ STJ-mida 1 □ Zone 2 □ Zon 8 □ Zone 9 □ Zon	ne 3 🗆 Zon	ie 4 🗆 Zone 5 🗖 2			
	Ascendi	ng TEVAF			DE Off Label S					
Arch V	/essel mai	nagement								
rich	Innomin			Flow	☐ Endovascular B	ranch Grafi	t □ Endovascula	r Parallel Graft		
			☐ Extra-aı	natomi	ic Bypass Fene	estrated 🔲 1				
			(11 23,1014 43,10		oypuss (sereet uit tilu	appi)))	□Aorta-Innomin	ate □Aorta-right o	aaratid	□Aorta- right subclavian
							□Right Carotid-	e		Other
	Left Car	otid:			☐ Endovascular Bi			r Parallel Graft		
					c Bypass		No Flow Restored Location:			
			(11 EAUA-Alla	HOIIIC I	oypass (select all tilat	r ¤hhīà)→)		tid	П т	ominata laft assertid
							□Aorta- left caro			ominate- left carotid
	Left Sub	clavian:	 □ Native F	low I	☐ Endovascular Bi	ranch Graft	□Right carotid- I		□Othe	r
	Len Sub	, C1a v 1a11.			_ Endovasculai bi c Bynass □ Fene			1 maner Grant		

	(If Extra-anatomic bypass (select all the	nat apply)→) Loc	ation:	
		□А	orta- left subclavian	□Left carotid- left subclavian □Other
Visceral Vessel manageme	nt	l		_
Celiac:	☐ No Flow Restored		Endovascular Parallel G	raft □ Extra-anatomic Bypass □ Fenestrated
	(If Extra-anatomic bypass (select all the	hat apply)→) Loc	ation:	
		□А	orta- celiac □Ilia	ac-celiac
Superior mesenteric:	☐ No Flow Restored			aft ☐ Extra-anatomic Bypass ☐ Fenestrated
	(If Extra-anatomic bypass (select all the		<mark>ation:</mark> Aorta- superior mesenteric	□Iliac- superior mesenteric □Other
Right renal:	☐ Native Flow ☐ Endovascular ☐ No Flow Restored	Branch Graft	Endovascular Parallel Gr	raft
	(If Extra-anatomic bypass (select all the	nat apply)→) Loc	ation:	
			Aorta- right renal □Ilia	ac- right renal □Other
Left renal:	☐ Native Flow ☐ Endovascular ☐ ☐ No Flow Restored	Branch Graft	Endovascular Parallel Gra	aft □ Extra-anatomic Bypass □ Fenestrated
	(If Extra-anatomic bypass (select all the	nat apply) \rightarrow) Lo	cation:	
			Aorta- left renal ☐Ilia	ac − left renal □Other
Right Iliac:	☐ Native Flow ☐ Bifurcated Gr	aft 🗆 Extra-ana	tomic Bypass No Flo	w Restored
	(If Extra-anatomic bypass (select all the	nat apply)→) Loc	ation:	
		□F	Femoral □C	Other
Left Iliac:	☐ Native Flow ☐ Bifurcated Gr	aft □ Extra-ana	tomic Bypass No Flow	w Restored
	(If Extra-anatomic bypass (select all the	nat apply) \rightarrow) Lo	cation:	
			Femoral- Femoral □	Other
Internal Iliac Preser	ved: Right Iliac only Left II	liac only Both	□ No	
Other Visceral Vess	sel(s) Extra-anatomic Bypass: \[\square \]	Yes □ No		
	(If Yes (select all tha	t apply) →) Loca	tion:	
		□Ao	rta-other	her
Planned Staged Hyb	orid: □ Yes □ No	•		
Other Early and Land	1			
Other Endovascular Proce Dissection proxim	nal entry tear covered: Yes N	Ō		
•	f procedure: \(\subseteq \text{Yes} \subseteq \text{No} \) (If Yes		Type: ☐ Ia ☐ Ib ☐ II ☐	I III 🗆 IV 🗆 V
	en: \square Yes \square No (If Yes \rightarrow)		Conversion reason:	
1				
Intraon Dissection	Extension: ☐ None ☐ Antegrade	□ Retrograde □		☐ Endoleak ☐ Rupture ☐ Occlusion/loss of branch
_	ure of dissection septum: □Yes	_	Location:	
			☐ Below STJ ☐ STJ-m☐ Midascending-distal a	
				Zone 3 □ Zone 4 □ Zone 5
A LUC - LD - L LL C			☐ Zone 6 ☐ Zone 7 ☐ 2	Zone 8 □ Zone 9 □ Zone 10 □ Zone 11
Additional Procedural Info	<u> </u>		NI	
_	Pre- aortic procedure Post- ao			□ Voc □ No. □ Halmoure
IntraOp Motor Evoked Pote			<u> </u>	□ Yes □ No □ Unknown
IntraOp Somatosensory Evo IntraOp EEG: ☐ Yes ☐ No			<u> </u>	□ Yes □ No □ Unknown □ Yes □ No □ Unknown
		(II 1 es →) Docui	nemed EEG autionnality	Li Tes Li No Li Cilkilowii
IntraOp Intravascular Ultras				
IntraOp Transcutaneous Dop	· ·	Volume of acres	rast: ml	Eluoroscopy timo:
Intraoperative Angiogram: [_ 1 cs □ INO (II Yes →)	Volume of contr	ast:ml	Fluoroscopy time: min
Endovascular Balloon Fenes	stration of the Dissection Flap: □F	PreOp	□PostOp □ N/A	

_					
Devices	1. T.	7077			
		o (If Yes, list aorta proximal to dis Valve Composite Graft Impla			
		-			
]	Implant Mo	odel Number:			
	Implant Siz	re:			
[impiant 512				
l l	Unique De	vice identifier (UDI):			
Aorta Devices					
Location:			X. No additional	devices inserted (only for loc	eations 2 – 15)
	C	0 1 2 3	A. Below sinotub	ular junction	,
	В.	14		nction to mid ascending	
	Α.]		g to distal ascending en innominate and left caroti	d)
		5		en left carotid and left subcla	
		6		cm. distal to left subclavian)	
		7		f zone 3 to mid descending a	orta ~ T6)
		1		escending aorta to celiac) to superior mesenteric)	
		9		for mesenteric to renals)	
		1_/	K. Zone 8 (renal	to infra-renal abdominal aort	a)
		10//10		enal abdominal aorta)	
		11	M. Zone 10 (common N. Zone 11 (extension)		
		1	(Refer to Data Sp	ecifications for Harvest Codes)	
For devices other th	an aortic v	valves and aortic valve comp	osite grafts:		
Implant Method:		1=Open Surgical 2= Endova	scular		
Outcome:		1= Unsucessfully implanted/r	naldeployed 2= Implanted	deployed and removed 3= Suc	cessfully implanted/deployed
Model Number:		Enter device model number			
UDI:		Enter unique device identifier	(not serial number)		
Location (Lett	ter)	Implant Method	Outcome	Model Number	UDI
				_	
l		1	1	- I	<u>I</u>

M.3. Congenital Defect Repair (other than-ASD – Secundum, PFO, or Unicuspid, Bicuspid or Quadricuspid valve) Congenital Diagnoses: Select up to three most significant diagnoses: (refer to "Congenital Diagnoses/Procedures List" document)

Diagnosis 1:	Diagnosis 2:(If not No Other Congenital→) Diagnosis 3:					
Concenital Proc	duras. Calast un ta thras me	ost significant: (refer to "Congenital Diagnoses/Procedures List" document)					
		not No Other Congenital) Procedure 3:					
N Other Non-O	Cardiac Procedures (If Other	Non-Cardiac Procedure = Ves)					
		s, unplanned due to surgical complication					
	Yes, unplanned due to unsusp	ected disease or anatomy No					
		nned due to surgical complication					
Other Theresis.	Yes, unplanned due to unsusp	ected disease or anatomy					
		ected disease or anatomy \square No					
		nned due to surgical complication					
		ected disease or anatomy No					
O. Post-Operat	ive						
	OR. ☐ Yes ☐ No (If No ↓)						
Peak Postoperative		erative Creatinine Level Discharge Hemoglobin: Discharge Hematocrit:					
Level within 48 ho	ours of OR Exit: prior to disch	<mark>large</mark> :					
D11 D14 II-	-1 D4	N. dev 1)					
Red Blood Ce	ed Postoperatively: Yes Eresh Froze	n Plasma/Plasma Units: Cryoprecipitate Units: Platelet Dose Pack:					
	☐ Yes ☐ No ☐ N/A (not intu						
		Time://:(mm/dd/yyyy hh:mm - 24 hr clock)					
	(for N/A leave this field blank)	++					
	Total post-op initial vent h	our (system calculation)					
		al Stay: ☐ Yes ☐ No (If yes →) Additional Hours Ventilated: ++					
Total post-operativ	ve ventilation hours: ++(S	ystem Calculation)					
ICU Visit: 🗆 Yes	\square No (If Yes \rightarrow) Initial ICU H	ours:					
	U: \square Yes \square No (If Yes \rightarrow) A						
	ormed to evaluate valve(s): \Box						
		☐ Trivial/Trace ☐ Mild ☐ Moderate ☐ Severe ☐ Not Documented					
	nvalvular leak:	derate ☐ Severe ☐ Not Documented ☐ N/A					
		☐ Trivial/Trace ☐ Mild ☐ Moderate ☐ Severe ☐ Not Documented					
	valvular leak:	I Tiviali Tiace I wind I Moderate I Sever I Not Documented					
		derate Severe Not Documented No					
		ne □ Trivial/Trace □ Mild □ Moderate □ Severe □ Not Documented					
		one ☐ Trivial/Trace ☐ Mild ☐ Moderate ☐ Severe ☐ Not Documented					
Post Op Ejection F	Fraction: ☐ Yes ☐ No (If Yes —	Post Op Ejection Fraction: (%)					
D. D	- E4						
P. Postoperative (If Expired in OR = N							
		period up to 30 days or during initial hospitalization: ☐ Yes, Infectious ☐ Yes, Non-Infectious ☐ Yes,					
Both □ No							
	Superficial Sternal Wound:	☐ Yes, within 30 days of procedure					
(If Van		☐ Yes, >30 days after procedure but during hospitalization for surgery					
(If Yes, Infectious or	Deep Sternal: **	□ No □Yes, within 30 days of procedure					
Yes, Both \rightarrow)	Deep Sternar.	☐ Yes, within 30 days of procedure ☐ Yes, greater than 30 days but during initial hospitalization					
		\square No					
		(If either Yes value →) Diagnosis Date:// (mm/dd/yyyy)					
	Thoracotomy (within 30 days)	or initial hospitalization):					
		vs or initial hospitalization): ☐ Yes-☐ No					
	Cannulation Site (within 30 days or initial hospitalization): ☐ Yes ☐ No						

(If Yes, Non- Infectious or Yes, Both→)	Non-Infective Surgion	cal Wound Dehiscence	ce (includes no	n-infective sterile wound): ☐ Sternal Superficial ☐ Deep Sternal
Is there evidence that	at the patient had a d	eep sternal wound in	fection within	90 days of the procedure: ☐ Yes ☐ No ☐ Unknown
Other <u>In Hospital</u> Po	ostoperative Event C	Occurred: 🗆 Yes 🗖 I	No (If Yes ↓)	
<u>Operative</u>				
ReOp for Bleeding /				(If Yes \rightarrow) Bleed Timing: \square Acute \square Late
		Yes, surgical Yes,	transcatheter	□ No
Unplanned Coronar	, <u>, </u>			
		ive coronary Graf		Intervention Type: ☐ Surgery ☐ PCI ☐ Both
Aortic Reinterventio			pe: 🗆 Open 🗆	Endovascular
ReOp for Other Car				
		iac Reasons:		
Open chest with pia	nned delayed sterna	closure: Yes 1	NO	
Sepsis: \square Yes \square	No			
Neurologic, Centra				
Postoperative Strok Encephalopathy:	e: ++ 🗆 Yes 🗆 N	0		
Neurologic, Periph Lower Extremity Pa Paresis >24 hours: [ralysis <mark>>24 Hours</mark> :	Yes □ No		
Recurrent Laryngea		⁄es □ No		
Pulmonary	Treeve injury.	103 🗖 110		
	on: 🗆 Yes 🗀 No (OR exit time until initia	al extubation, plu	as any additional reintubation hours)
$(\text{If Yes} \rightarrow)$	Tracheostomy Requi	red after OR Exit □	Yes No	
Pneumonia: ☐ Yes Pulmonary Thrombo Pleural Effusion Red Pneumothorax Requ	oembolism: □ Yes quiring Drainage: □	∃ Yes □ No		
Renal				
Renal Failure: ++ 🛘				
(If Yes	\rightarrow Dialysis (New	vly Required): 🗆 Ye	es 🗆 No	$(\text{If Yes} \rightarrow) \text{ Required after Hospital Discharge: } \square \text{ Yes } \square \text{ No}$
Vascular Iliac/Femoral Disse Acute Limb Ischem	nia: 🗆 Yes 🗆 No			
Deep Venous Thro			137	
		plication: □ Yes □ on: (select all that apply		
	☐ Thrombotic/Emb ☐ Hemolytic ☐ Infection	n site issue Hemo olic al assist device relate		
Other Rhythm Disturbanc Cardiac Arrest:		ent Pacemaker: 🗆 Y	es 🗆 No	
	on ☐ Yes ☐ No (I	f Yes ↓)		
	Aortic Dissection	n: □ Yes □ No		
		Indoleak: ☐ Yes ☐	No	$(\text{If Yes} \rightarrow) \text{ Type: } \square \text{ Ia } \square \text{ Ib } \square \text{ II } \square \text{ III } \square \text{ IV } \square \text{ V}$
		ch malperfusion:		
		induced entry tear: [
Antiquagulant Place		•		
Anticoagulant Blee (If Yes-	ding Event: ☐ Yes → ☐ Intracerebral		trointestinal	
Heparin Induced Th	rombocytopenia (H	T)	(If Yes→) <mark>Hepa</mark>	arin Induced Thrombocytopenia Thrombosis (HITT)□ Yes □ No
Pericardiocentesis::				
Gastro-Intestinal E	vent: ☐ Yes ☐ No			tinal Bleed Pancreatitis Cholecystitis
(If Yes, s	select all that apply \rightarrow)	□Liver Dysfunction	Livei railure	Lifeus Library

rial Fibrillation: Li Yes Li No							
Discharge / Mortality							
atus at 30 days After Surgery (either id the patient transfer to another acute				(If Yes →	Date Transferred: / /		
	ouro nospi	and after any procedure during sain		(11 1 05)		
the patient still in the Acute Care Ho	spital Settir	ng: \square Yes \square No (If No \downarrow)					
Hospital Discharge Date	/ /	(mm/dd/yyyy)					
Status at Hospital Discharge++		☐ Discharged Alive, last kno		r than Hosp	rice)		
		☐ Discharged Alive, died aft☐ Discharged to Hospice	er discharge				
		☐ Died in hospital					
(If Discharge Alive, last known status alive OR Discharged	Discharge	e Location: ☐ Home ☐ Extende☐ Nursing Home ☐	ed Care/Transitional (Left AMA Dot		ehab		
Alive, died after discharge \rightarrow)							
(If Discharge Location Care/Transitional Care U		☐ Acute/Short-term Rehab ☐L	ong-term Rehab □U	nknown			
(If Discharge Location is NOT)	Left AMA→	Cardiac Rehabilitation Referra	l:	☐ Ye	s □ No □ Not Applicable		
		Substance Use Screening and C	Counseling Performed	i □ Ye	s 🗆 No 🗆 Not Applicable		
		(NQF <mark>2597</mark>):					
		Medications Prescribed at Disc	harge				
			Aspirin		☐ Yes ☐ No ☐ Contraindicated		
		Antiplatelet++	ADP Inhibitor		☐ Yes ☐ No ☐ Contraindicated		
			Other Antiplate Direct Oral Ant		☐ Yes ☐ No ☐ Contraindicated☐ Yes ☐ No ☐ Contraindicated☐		
		Anticoagulant	Warfarin (Cour Other Anticoag		☐ Yes ☐ No ☐ Contraindicated ☐ Yes ☐ No ☐ Contraindicated		
		ACE or ARB	Other / Hitleong		No □ Contraindicated		
		A			icated (see Training Manual)		
		Amiodarone Beta Blocker ++			No □ Contraindicated No □ Contraindicated		
		Lipid Lowering - Statin +					
(If States at Hamital Discharge in	3.6 . 12.	Lipid Lowering - Other	ther				
(If Status at Hospital Discharge is 'Discharged Alive, Died after	Mortality	<u>/- Date++//</u>	(mm/dd/yyyy)				
discharge' OR 'Discharged to Hospice'→)							
(If Status at Hospital Discharge is	Operative	e Mortality: ++ □ Yes □ No					
'discharged alive, died after discharge' OR 'Discharged to							
Hospice'→) (If Status at Hospital Discharge is	D + D;	1 1 11 2 5		1.10 E	11'4		
'Discharged to Hospice' OR	Post Disc		☐ Home ☐ Extend☐ Acute Rehabilitation		cility		
'Discharged Alive, died after discharge'→) □ Other □ Unknown							
(If Died in Hospital→) Primary Cause of Death (select only one) □ Cardiac □ Neurologic □ Renal □ Vascular □ Infection □							
	Pulmona	ry 🗆 Unknown 🗆 Other					
. Readmission							
If Status at Hospital Discharge = Discharg			ve, died after discharge	<u></u>			
Readmit: ++							
Readmit Date:/ Readmit <u>Primary</u> Reason:	/	(mm/dd/yyyy)					
Readmit <u>Primary</u> Reason:			Pericardial Effusion	and/or Tan	ponade		
☐ Anticoagulation		tion - Pharmacological	Pericarditis/Post Car	diotomy Sy	ndrome		
☐ Anticoagulation Complication — Valvular ☐ Pleural effusion requiring intervention ☐ Pneumonia							

	Indication: ☐ Rupture ☐ Endoleal	☐ Infection ☐ Dissection ☐ Expansion ☐ Loss of side branch patency		
If OR for Aorta intervention \rightarrow)	Type: ☐ Open ☐ Endovascular			
		☐ Unknown		
☐ OR for Valve Intervention		☐ Other Procedure		
☐ OR for Sternal Debridement	/ Muscle Flap	☐ Wound vac		
☐ OR for Coronary Artery Inte	ervention	☐ Thoracentesis/ Chest tube insertion		
☐ OR for Bleeding		☐ Planned noncardiac procedure		
☐ Dialysis		☐ Pericardiotomy / Pericardiocentesis		
☐ Cath lab for Coronary Interv	vention (PCI)	□ Pacemaker Insertion / AICD		
☐ Cath lab for Valve Intervent	ion	☐ OR for Aorta Intervention		
☐ No Procedure Performed		☐ OR for Vascular Procedure		
Readmit Primary Procedure:				
LIE		☐ Unknown		
□ Myocardiai iliiaicu □ PE	OII	☐ Other – Planned Readmission		
☐ Mental status chang ☐ Myocardial Infarcti		☐ Other – Nonrelated Readmission		
☐ Infection, Deep Ster		☐ Wound, Sternal dehiscence not related to infection ☐ Other – Related Readmission		
☐ Infection, Conduit I		Wound, other (drainage, cellulitis,)		
☐ GI issue	H 4 6'4	□ Vascular Complication, acute		
☐ Failure to thrive		□ Valve Dysfunction		
☐ Endocarditis		□ VAD Complication		
☐ Electrolyte imbalan	ce	☐ Transplant Rejection		
□DVT		☐ Transfusion		
☐ Depression/psychia	tric issue	□TIA		
☐ Coronary Artery/Gr		Stroke		
☐ Congestive Heart Fa		□ Sepsis		
☐ Chest pain, noncard		☐ Respiratory complication, Other		
☐ Blood Pressure (hyp	per or hypotension)	☐ Renal Insufficiency		
☐ Arrhythmia or Hear	t Block	☐ Renal Failure		

Adult Cardiac Anesthesiology (for sites participating in the optional anesthesiology component)								
Organization participates in the Adult Anesthesia Section: Yes No								
Primary Anesthesiologist Name:		Primar	y Anesthesiologist N	ational Provider Numb	ber:			
Anesthesiology Care Team Model: Anesthesiologist working a Attending anesthesiologist Attending anesthesiologist Attending anesthesiologist	teaching/medically teaching/medically	directing fellow directing house staff	(If Attending anesth	esiologist medically direc 2. □ 1:3 □ 1:4. □ 1:5	eting CRNA ↓)			
☐ Attending anesthesiologist	AA		esiologist medically direction 2. \$\square\$ 1:3 \$\square\$ 1:4. \$\square\$ 1:5					
☐ Surgeon medically directin								
□ CRNA practicing independ Pain Score Baseline: □ 0 □ 1 □ 2				Recorded				
Pre Induction Systolic BP:			ion Diastolic BP:	Recorded				
Pre Induction Heart Rate: Pulmona			ary Artery Catheter Used:					
Algorithm used to Guide Transfusion: [□ Yes □ No							
Anticoagulation Prior to CPB								
Heparin prior to CPB ☐ Yes☐ No (If Yes →)	Heparin Dose:units	Heparin Management:	☐ Heparin titra☐ Other metho		d clotting time (ACT) concentration (Hepcon)			
	Fresh Frozen Plas	ma prior to CPB Yes	\square No (If yes \rightarrow)	Total Dose:	<u>units</u>			
	Antithrombin III p	rior to CBP 🗆 Yes 🗆 N	$0 \qquad (If yes \rightarrow)$	Total Dose:	International Unit/mL			
Bivalirudin □ Yes □ No								
Argatroban □Yes □ No								
Viscoelastic Testing Used Intraop: Y	es 🔲 No							
Volatile Agent Used: ☐ Yes ☐ No								
Volatile Agent(s)	Volatile Agent(s) used: ☐ Isoflurane ☐ Desflurane ☐ Other (If Yes →) (select all that apply→)							
		PB □ During CPB	LI POST CPB LI IV.	Maintenance (if no CPE	5)			
(select all that ap Intraop Midazolam: ☐ Yes ☐ No (1	f Yes→) Dose	mgs	Intraop Fentanyl	□ Yes □ No	(If Yes→)Dosemcgs			
Intraop Sufentanil ☐ Yes ☐ No (I	f Yes→) Dose	mcgs	Intraop Remifent	tanil□ Yes □ No	(If Yes→) Dose mcgs			
Multimodal Analgesics (OR Entry to 2	4h post OR Exit) [(If Yes, select all	that apply→) □ Acetam			Lidocaine Infusion (not bolus) n-steroidal anti-inflammatory (PO)			
□ B □ N □ P	ladder \square asopharyngeal \square	Tympanic □ Rectal CPB venous return □	Oxygenator arterial oblood (CPB Arterial Other Unknown		Max during rewarming:°C			
Crystalloid given by Anesthesia	☐ Yes ☐ No (If Yes→)	nesth. Total Crystalloid	mL	1				
	Ту	pe:□ 0.9 Sodium Chlori	de 🛘 Normosol 🗖 F	Ringer's Lactate 🗆 Pla	asmalyte			
Was 5% Albumin given by Anesthesia	□ Yes □ No	(If Yes→)	Anesthesiology	y Total 5% Albumin _	mL			

Was 25% Albumin gi	ive by Anesthesia	\square No (If Yes \rightarrow)	Anesthesi	iology Total 25% AlbuminmL			
Autologous Normovolemic Hemodilution (ANH)	☐ Yes ☐ No (If Yes →	ANH Volume:	mL				
Intraop Inhaled Vaso	dilator: ☐ Yes ☐ No	Intraop IV Vasodilato	rs Used: ☐ Yes ☐ N	No			
Intraop Glucose Trou	gh: \square Yes \square No (If Yes \rightarrow)	mg/c	L				
Intraop Insulin Given	: ☐ Yes ☐ No (If Yes →)	Intraop Insulin Total	Dose units				
Intraoperative Proces	sed EEG (BIS): ☐ Yes ☐ N	0					
Intraop Post-Inductio	n/Pre-Incision Transesophagea	al Echo (TEE): ☐ Yes [□No				
(If-Post-Induction/Pre- Incision TEE is Yes→)	LVEF Measured or Estimated	: Yes No (If Yes-) LVEF:	<mark>%</mark>			
	Left Atrial Size ☐ Yes ☐ No		ial Superior-Inferior _ ial Medial-Lateral	_cm cm			
	RV Function:	☐ Normal ☐ Mild Dysfunction	☐ Moderate Dysfu ☐ Severe Dysfunc				
	Mitral Regurgitation:	□ None □ Trace/trivial □ Mild □ Moderate □ Severe	,				
	Patent Foramen Ovale:	☐ Not assessed	ot assessed				
		☐ Yes ☐ No	ot assessed				
		Maximal Ascending Ao	ta Diameter:	<mark>cm</mark>			
	Maximal Ascending Aorta Atheroma Thickness:mm						
	(If Yes→)	Ascending Aorta Athero	ma Mobility:	□ Yes □ No			
	Aortic Arch Visualized:	Yes □ No					
		Maximal Aortic Arch At	heroma Thickness:	mm			
	(If Yes→)	Aortic Arch Atheroma I	Mobility:	□ Yes □ No			
Cardiopulmonary By (If CPB	pass Used: ☐ Yes ☐ No						
Use is Yes→)	ABG Management during co		□ pH-Stat	Unknown			
	ABG Management during rewarming	□Alpha-Stat	□ pH-Stat	☐ Unknown			
	Arterial Outflow Temperatur	e Measured	l No (If Yes→)	Highest Arterial Outflow Temperature:	°C		
	Retrograde Autologous Primi	ing of CPB Circuit:	es 🔲 No	1			
	Total Crystalloid Administered by Perfusion Team:mL						
	(If mL >0 select all that apply) □ 0.9 Sodium Chloride □ Normosol □ Ringer's Lactate □ Plasmalyte						
	Total 5% Albumin Administe	ered by Perfusion Team:	mL_				
	Total 25% Albumin Adminis	tered by Perfusion Team:	<u>mL</u>				
	Hemofiltration Volume Remo	oved by Perfusion Team:	mL				

	Inotropes used to wean from CPB: ☐ Yes ☐ No							
	Vasopressors used to wean from	om CPB: □ Yes □ No						
Cell Saver Volume:	mL		Protamine Total Dose :mgs					
Post-Procedure Use (Of Intraoperative TEE: ☐ Yes	□ No						
(If Post Proc TEE is Yes→)	Systolic Anterior Motion of Mitral Valve:							
	Return to CPB for Echo Related Diagnosis:							
	(If Yes →)		<mark>known</mark>					
			→) □ Left Ventricular Failure □ Right Ventricular Failure □ Bi-Ventricular Failure □ Unknown					
	Post-Procedure LVEF Meas	sured:	(If Yes→) Post-Procedure LVEF: %	1				
	Post-Procedure RV Function:		Moderate Dysfunction ☐ Not Assessed Severe Dysfunction					
Patient Died in the O	R: □ Yes □ No							
(If Died in OR is No→)	Core Temp Measured upon Entry to ICU/PACU: ☐ Yes ☐ No							
	(If Yes→) Post Op Core Temp:°C							
	Post-Op INR Measured upon admission to post op care location (PACU, ICU): ☐ Yes ☐ No (If Yes→) INR:							
	WBC Measured upon admissi	on to post op care location (PACU	U, ICU): ☐ Yes ☐ No					
	(If	Yes→) WBC :	<mark>/μL</mark>					
		ssion to post op care location (PA						
	(If Yes→) Platelet Count:/μL Hemoglobin Measured upon admission to post op care location (PACU, ICU): □ Yes □ No							
		Yes) Hemoglobin:	/gm/dL					
		Imission to post op care location (la Yes→) Hematocrit:	(PACU, ICU): ☐ Yes ☐ No					
		mission to post op care location (I	PACU, ICU):					
		Yes→) Fibrinogen	mg/dL					
		sion to post op care location (PAC	CU, ICU):					
	(If Yes-) Lactate:mg/dL							
	Peak Glucose between within 18-24 hours after OR Exit Time:							
	Post Op Propofol: ☐ Yes ☐ No							
	Post Op Other Sedation: ☐ Yes ☐ No							
	Post Op Delirium: ☐ Yes ☐ N	Го						
	Pain Score POD #3: □ 0 □ 1 □ 2 □ 3 □	□4 □5 □6 □7 □8	□ 9 □ 10 □ Not recorded □ NA					
	Pain Score Discharge: □ 0 □ 1 □ 2 □ 3 □]4	□ 9 □ 10 □ Not recorded □ NA					