The Society of Thoracic Surgeons

Adult Cardiac Surgery Database

Data Collection Form Version 4.20.2



STS National Database" Trusted. Transformed. Real-Time.

**Risk Variable ++NQF

Updated 12/21/2020

A. Administrative		
Participant ID:	Record ID: (software generated)	
Patient ID: (software generated)		
Patient participating in STS-related clinical trial:		
\Box None \Box Trial 1 \Box Trial 2 \Box Trial 3 \Box Tr	al 4 \Box Trial 5 \Box Trial 6 (If not None \rightarrow)	Clinical Trial Patient ID:

B. Demographics				
Patient Last Name:		Patient First	Name:	Patient Middle Name:
Date of Birth:/	/ (mm/dd	/yyyy) Patient Age:	**	Sex: ** 🗆 Male 🛛 Female
National Identification	(Social Security) Numb	er Known: 🗆 Yes 🗆	No \square Refused (If Yes \rightarrow)	National ID Number:
Medical Record Numb	er:			
Permanent Street Addr	ess:		City:	
Region:	-		ZIP Code:	Country:
Race Documented:	□Yes □No □Pt. Dec	lined to Disclose		
	Race: (If Yes	s, select all that apply \rightarrow) \square White:	Am Indian/Alaskan:
			□ Black/African American: **	□ Hawaiian/Pacific Islander
			□ Asian: **	□ Other:
Hispanic, Latino or Sp	anish Ethnicity: **	\Box Yes \Box No \Box N	lot Documented	

C. Hospitalization				
Hospital Name: (If Not Missing \rightarrow)	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 \rightarrow) Commercially Managed Medicare Plan \Box Yes \Box No (If No \downarrow)	(If Medicare \rightarrow) Commercially Managed Medicare Plan \Box Yes \Box No (If No \downarrow)			
HICN/MBI Known □ Yes □ No (If Yes ↓)	HICN/MBI Known □ Yes □ No (If Yes ↓)			
HICN/MBI: Primary Payor Medicare Part B: □Yes □ No	HICN/MBI:			
	Secondary rayor Medicate rait B.			
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:	Transfer in from another hospital/acute care facility Other			
$($ If Transfer $\rightarrow)$ Other Hospital Performs Cardiac S	urgery Yes No			

D. Risk Factors		
Height (cm): **	Weight (kg): **	Calculated BMI
		(system calculation)

	re Coronary Artery Disease: ** 🛛 Y	es 🗆 No 🗆	Unknown	
Diabetes: ** 🗆 Yes 🗆 No	\Box Unknown (If Yes \rightarrow)	Diabetes-Con	trol: ** 🛛 None 🖾 Diet o	only 🗆 Oral 🗆 Insulin 🗆 Other SubQ
			Other 🛛 Unknown	
Dialysis: ** 🗆 Yes 🗆 No			: ** 🗆 Yes 🗆 No 🛛 Unkn	own
] No (If Yes \rightarrow) Endocarditis Type: **			
(If Endocarditis Yes				MSSA Coagulase negative staph
			Gram negative species	
		acterium (chii	nera) 🗆 Fungal 🔹 🗆 Othe	er 🗆 Unknown
Tobacco use: **	□ Never smoker			
	□ Current every day smoker			
	\Box Current some day smoker			
	□ Smoker, current status (frequer	icy) unknown		
	□ Former smoker			
Character Discourse **	Smoking status unknown			nites combra according D I Jackar according
(If Mild, Moderate or Severe-	□ No □ Mild □ Moderate □ Se			
(II Mild, Moderate or Severe-	•		e 🗆 Interstitial Fibrosis 🗆 R	estrictive 🗆 Other 🗆 Multiple
Delman Francisco Teat I	Not Docu	mented		
Pulmonary Function Test I(If Yes \rightarrow)FEV1		TO Test Dest	made D Vac D N- (1037	DI CO 0/ Dr - 1! - 4 - 1
			rmed: Yes No (If Ye	
	$\begin{array}{c c} \square \text{ Yes } \square \text{ No } & (\text{If Yes} \rightarrow) \\ \hline \end{array}$		ioxide Level:	Oxygen Level :
	PRN □ Yes, oxygen dependent □ Unknown	innaled Me	culcation or Oral Bronchodil	ator Therapy: 🗆 Yes 🛛 No 🗖 Unknown
Sleep Apnea: **		Draumonia	: ** Recent Remote	
	e Year: ** 🗆 Yes 🗆 No 🗆 Unknown			hin One Year: \Box Yes \Box No \Box Unknown
Inicit Drug Üse within Of		(II IIICIL	-	
		Drug Use	Drug use with 30 days of r	procedure?
		$=$ Yes \rightarrow)	Drug use with 30 days of p	
Alcohol Use: ** $\Box \leq 1$ dr	ink/week \Box 2- 7 drinks/week \Box >		k □ None □ Unknown	
Liver Disease: ** Yes			osis \Box Yes \Box No \Box Unk	
		Liver chin		
		(If Liven Ci	mhasis - Vas) Child D	ugh Class $\Box A \Box B \Box C \Box$ Unknown
		(II Liver Ci	$rrnosis = res \rightarrow$ (Child –P	
	sent: ** 🗆 Yes 🗆 No 🗆 Unknown		Radiation: ** 🗆 Yes 🗆 No	
Cancer Within 5 Years: **	□ Yes □ No □ Unknown		Artery Disease: ** 🗆 Yes [
Unresponsive State: **		Syncope: *	* 🗆 Yes 🗆 No 🗆 Unknov	vn
	** 🗆 Yes 🗆 No 🗆 Unknown	v) D		
	A: ** 🗆 Yes 🗆 No 📄 Unknown (If	$Yes \rightarrow$) Pr	ior CVA-When: ** $\square \le 3$	$0 \text{ days } \square > 30 \text{ days}$
	A: **			
	otid Stenosis: 🗆 Right 🗆 Left 🛛			
	Right or Both \rightarrow) Severity of stenosis o	n the right car	otid artery: **	□ 80 – 99% □ 100% □ Not documented
			5	$\square 80 - 99\%$ $\square 100\%$ \square Not documented
	f previous carotid artery surgery and/o			
				Quality Report will flag missing Creatinine
	E Hematocrit are missing. if Liver	disease is pr		· · · · · · · · · · · · · · · · · · ·
WBC Count: **	Hemoglobin:		Hematocrit: **	Platelet Count: **
Total Albumin:	A1C Level:		BNP	
Sodium:	Last Creatinine Level	**	Total Bilirubin:	INR:
HIT Antibodies Yes			MELD Score:	(System Calculation)
Five Meter Walk Test Don	e: \Box Yes \Box No \Box Non-ambulatory			
	(If Yes \rightarrow) Time 1: (sec		Time 2: (seconds) Time 3 : (seconds)
Did the patient have a lab	oratory confirmed diagnosis of Covid			
	🗆 Yes, pri		ization for this surgery (H	
			in hospital prior to surgery	
			in hospital after surgery (Ha	
		⊔ Yes,	atter discharge within 30 d	ays of surgery (Harvest Code 14)
		,	()11/ >	
Date of Positive Covid-19	9 Test (closest to OR date)/_	/	(mm/dd/yyyy)	

E. Previous Cardiac Interventions					
Previous Cardiac Interventions: ** I Yes I No I Unknown					
(If Yes \rightarrow) Previous Coronary Artery Bypass (CAB): ** \Box Yes	⊐ No				
Previous Valve Procedure: ** \Box Yes \Box No (If PrValve	e Yes, Enter at least o	one previous valve	procedure and up to	5 ↓)	
	#1**	#2**	#3**	#4**	#5 **
No additional valve procedure(s)					

Aortic valve ba	alloon valvotomy/valvulop	lastv							
Aortic valve re		lusty							
Aortic valve replacement, surgical									
Aortic valve replacement, transcatheter									
		lectre							
Mitral valve balloon valvotomy/valvuloplasty Mitral valve commissurotomy, surgical			-						
	pair, percutaneous								
Mitral valve re									
	placement, surgical								
	placement, transcatheter								
	e balloon valvotomy/valvu	loplasty							
	e repair, percutaneous								
Tricuspid valve	e repair, surgical								
Tricuspid valve	e replacement, surgical								
Tricuspid valve	e replacement, transcathete	er							
Tricuspid valve									
	ve balloon valvotomy/valv	uloplasty							
	ve repair, surgical								
	ve replacement, surgical								
	ve replacement, transcathe	ter	<u> </u>						
Pulmonary val	2								
Other valve pro	ocedure								
Previous PCI:	** □ Yes □ No								
$(If Yes \rightarrow)$ P	PCI Performed Within This	Episode Of C	are: ** 🛛 Ye	s, at this faci	ility 🗆 Yes	at some oth	er acute care	facility 🛛	No
	If Yes, at this facility or Yes, a					,			
<u>`</u>	Indication for Surgery:			*/	D P	CI Failure wi	ithout Clinic:	al Deteriorat	ion
	2 7	D PCI Failur		l Deteriorati	on 🗆 P	CI/Surgery S	taged (not S'	TEMI)	
		□ PCI for ST							
					_				
P	PCI Stent: 🗆 Yes 🗆 No	PCI Interval:	** □ <= 6 Ho	ours $\Box > 6$	Hours				
Other Previous	s Cardiac Interventions: **	□ Yes □ No	(If Yes, Enter	at least one p	revious other	cardiac proce	dure and up to	7↓)	
			#1**	#2**	#3**	#4 **	#5 **	#6 <mark>**</mark>	#7 **
No additional	interventions								
	eter, atrial arrhythmia								
Ablation, cathe	eter, atrial arrhythmia								
Ablation, cathe Ablation, cathe	eter, other or unknown								
Ablation, cathe Ablation, cathe Ablation, cathe	eter, other or unknown eter, ventricular arrhythmia	L							
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Ventricular Assist Device (VAD), right				
Other Cardiac Intervention (not listed)				

F. Preoperative Cardiac Stat	us					
Prior Myocardial Infarction:		nown (If Yes ↓)				
	MI When:*	* □ <=6 Hrs. □] >6 Hrs. but <24 Hrs	. 🗆 1 to 7 Days	\Box 8 to 21 Days \Box >21	Days
Primary Coronary Symptom for	No Core	onary Symptoms	🗆 Angina Equiva	lent		
Surgery:**	□ Stable A	ngina	Unstable Angir	a		
	ST Elev	ation MI (STEMI) 🛛 Non-ST Elevati	on MI (Non-STEM	I)	
	□ Other					
Heart Failure: 🗆 Yes 🗆 No 🗆 Ur		U U			vstolic 🗆 Diastolic 🗆 Bo	th 🛛 Unavailable
Classification-NYHA:** Class						
Cardiogenic Shock :** Ves, at						
Resuscitation:** Yes - Within		t of the procedure	\Box Yes - More than	1 hour but less that	n 24 hours of the start of t	he procedure D No
Cardiac Arrhythmia: 🗆 Yes 🛛 N	0					
$(If Arrhythmia = Yes \rightarrow)$ Perman	ently Paced Rhy	hm: 🗆 Yes 🗆 N	0			
	VTach/VFib**	Sick Sinus	AFlutter**	AFibrillation**	Second Degree Heart	Third Degree
response below for each rhythm \rightarrow)		Syndrome**			Block**	Heart Block**
None						
Remote (> 30 days preop)						
Recent (<= 30 days preop)						
(If AFibrillation is not None \rightarrow)	Atrial Fibrillatio	n Type: 🗆 Parox	ysmal Persistent	**	1	
(If AFibrillation = Recent \rightarrow)	Was patient in A	-fib at OR Entry?	□ Yes □ No			

G. Preoperativ	ve Medications		
Ν	Medication	Timeframe	Administration
ACE or ARB **		Within 48 hours	□ Yes □ No □ Contraindicated □ Unknown
Amiodarone		Prior to surgery	□ Yes, on home therapy □ Yes, therapy started this admission □ No □ Unknown
	Beta Blocker ++	Within 24 hours	□ Yes □ No □ Contraindicated
	Beta Blocker	On the rapy for ≥ 2 weeks prior to surgery	□ Yes □ No □ Contraindicated □ Unknown
	Calcium Channel Blocker	On the rapy for ≥ 2 weeks prior to surgery	□ Yes □ No □ Contraindicated □ Unknown
Antianginal	Long-acting Nitrate	On the rapy for ≥ 2 weeks prior to surgery	□ Yes □ No □ Contraindicated □ Unknown
	Nitrates, intravenous	Within 24 hours	\Box Yes \Box No
	Other Antianginal	On the rapy for ≥ 2 weeks prior to surgery	□ Yes □ No □ Contraindicated □ Unknown
	ADP Inhibitor **	Within 5 days	□ Yes □ No □ Contraindicated □ Unknown
	(includes P2Y12)		$(\label{eq:approx_state} If Yes \rightarrow) ADP Inhibitors Discontinuation: ** (# days prior to surgery)$
Antiplatelet	Aspirin	Within 5 days	$\begin{tabular}{ c c c c c } \hline $$ Yes $$ No $$ Contraindicated $$ Unknown $$ (If Yes$$) $$ Aspirin Discontinuation: $$ (# days prior to surgery) $$ Aspirin one time dose: $$ Yes $$ No $$ No $$ (# days prior to surgery) $$ (# days prior to surgery) $$ (If Yes$$) $$ (If Yes$) $$ (If Yes$) $$ (If Yes$$) $$ (If$
	Glycoprotein IIb/IIIa **	Within 24 hours	□ Yes □ No
	Anticoagulants (Intravenous/ SubQ)	Within 48 hours	□ Yes □ No
Anticoagulant			(If Yes →) Heparin (Unfractionated) Heparin (Low Molecular) Both Other
	Warfarin (Coumadin)	Within 5 days	□ Yes □ No □ Unknown
			(If $Yes \rightarrow$) Coumadin Discontinuation: (# days prior to surgery)
	Direct Oral Anticoagulant (DOAC)	Within 5 days	□ Yes □ No □ Unknown
			(If $Yes \rightarrow$) DOAC Discontinuation: (# days prior to surgery)

Thrombolytics	Within 24 hours	□ Yes □ No
Inotropic, Intravenous **	Within 48 hours	□ Yes □ No
Lipid Lowering	Within 24 hours	□ Yes □ No □ Contraindicated □ Unknown
		$(If Yes \rightarrow) \qquad \text{Medication Type}: \square \text{ Statin } \square \text{ Statin + Other } \square \text{ Non-statin/Other}$
Steroids **	Within 24 hours	□ Yes □ No □ Contraindicated □ Unknown

H. Hemodynamics/Cath/Echo	
Cardiac Catheterization Performed : \Box Yes \Box No (If Yes \rightarrow) Cardiac Catheterization Date: $__/_/_/__/_$	
Coronary Anatomy/Disease known: \Box Yes \Box No (If Yes \downarrow)	
$\frac{ V_{1} }{ V_{1} } = \frac{ V_{1} }{ V_{1} } $	
Diseased Vessels **(If one, two or three vessel disease ↓)	
**Left Main stenosis \geq 50% known \Box Yes \Box No \Box N/ A	
$(If Yes \rightarrow) Is location of stenosis known: \Box Yes \Box No$	
$(If Yes select all that apply \rightarrow) \square Native Artery Stenosis \square Stenotic Graft \square Stenotic Stent$	
**LAD distribution stenosis \geq 50% known \Box Yes \Box No \Box N/A	
$\Box 50-69\% \Box \ge 70\%$	
$(If Yes \rightarrow) Is location of stenosis known: \Box Yes \Box No$	
$(If Yes select all that apply \rightarrow) \square Native Artery Stenosis \square Stenotic Graft \square Stenotic Stent$	
Ramus stenosis \geq 50% known \Box Yes \Box No \Box N/A	
$\Box 50-69\% \Box \ge 70\%$	
$(If Yes \rightarrow) Is location of stenosis known: \Box Yes \Box No$	
$(If Yes select all that apply \rightarrow) \square Native Artery Stenosis \square Stenotic Graft \square Stenotic Stent$	
Circumflex distribution stenosis \geq 50% known \Box Yes \Box No \Box N/A	
$\Box 50-69\% \Box \ge 70\%$	
$(If Yes \rightarrow) \ \overline{Is \ location \ of \ stenosis \ known: \ \Box \ Yes \ \Box \ No}$	
$(If Yes select all that apply \rightarrow) \square Native Artery Stenosis \square Stenotic Graft \square Stenotic Stent$	
RCA distribution stenosis \geq 50% known \Box Yes \Box No \Box N/A	
$\Box 50-69\% \Box \ge 70\%$	
$(If Yes \rightarrow) Is location of stenosis known: \Box Yes \Box No$	
$(If Yes select all that apply \rightarrow) \square Native Artery Stenosis \square Stenotic Graft \square Stenotic Stent$	
Ejection Fraction Done: Yes No (If Yes \rightarrow) Ejection Fraction: **(%)	
Dimensions Available: □ Yes □ No (If Yes→) LV End-Systolic Dimension: (mm) LV End-Diastolic Dimension: (mm)
PA Systolic Pressure Measured: □ Yes □ No (If Yes→) PA Systolic Pressure: mmHg	
Aortic Valve	
Aortic Valve Regurgitation: Yes No	
$(If Yes \rightarrow) \text{ Aortic Valve Regurgitation: ** } \Box Trivial/Trace \Box Mild \Box Moderate \Box Severe \Box Not Documented$	
Aortic Valve Stenosis: ** Yes No	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	
$(If Yes \rightarrow) \text{Aortic Valve Area:} \underline{\qquad} cm^2$	
Mean Gradient: mmHg Aortic Jet Velocity (V _{max):} m/s	
Aortic Valve Disease: Yes No	
(If Aortic Valve Disease, Yes→) AV Disease Etiology: ** Choose 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					
$(If Yes \rightarrow)$ Mitral Regurgitation: ** \Box Trivial/Trace \Box Mild \Box Mod	lerate	Severe Not Documented			
Mitral Valve Stenosis: ** Yes No					
$(If Yes \rightarrow) \qquad \text{Mitral Valve Stenosis: } \square \text{ Mild } \square \text{ Moderate } \square \text{ Severe } \square \text{ Notestian of the severe } \square \text{ Moderate } \square \text{ Severe } \square \text{ Notestian of the severe } \square Notes$	ot Docur	nented			
Hemodynamic/ Echo data available: Yes No					
Valve Area: cm ²					
$(If Yes \rightarrow)$ Mean Gradient: mmHg					
Mitral Valve Disease: 🗆 Yes 🗀 No					
Choose PRIMARY Lesion (one): (If Mitral Valve Disease, Yes ↓)					
$\Box \ Class \ I - Normal \ Leaflet \ Mobility \ (If \ Class \ I \rightarrow)$		□Pure Annular Dilatation			
		Endocarditis, Native Valve			
		Other/ Unknown/Not Available			
$\Box \ Class \ II - Increased \ Leaflet \ Mobility \ (If \ Class \ II \rightarrow)$		□Myxomatous degenerative prolapse/flail			
		□Endocarditis □Other/Unknown/Not Available			
		Posterior I asflat			
		$(If Myxomatous \rightarrow)$ \square Anterior Leaflet			
□ Class III A– Restricted Leaflet Mobility (systole and diast	ole)				
(If Class III A \rightarrow)	,	Tumor (Carcinoid or Other)			
		□Radiation Induced Heart Disease			
		□MAC			
	□Other/Unknown/Not Available				
□ Class III B – Restricted Leaflet Mobility (systole only)		□Ischemic (acute/chronic)			
$(\text{If Class III B} \rightarrow)$	□Non-ischemic Cardiomyopathy				
		Other/Unknown/Not Available			
☐ Mixed Lesion (Type II and Type IIIA)		☐Mixed leaflet lesion (prolapse/flail and restriction)			
(If Mixed Lesion \rightarrow)		□Congenital □MAC			
		□MAC □Other/Unknown/Not Available			
☐ Acute Papillary muscle rupture					
□ Acute Fabiliary Indicite Tupture					
□ Other/Unknown/Not Available					
Tricuspid Valve					
Tricuspid Valve Regurgitation: Yes No					
(If Yes→) Tricuspid Regurgitation: ** □Trivial/Trac	e 🗆 Mil	d 🗆 Moderate 🗆 Severe 🗆 Not Documented			
Tricuspid Valve Stenosis: Yes D No D	•				
(If Yes→) Tricuspid Valve Stenosis: □ Mild □ Mod	lerate 🗆	Severe D Not Documented			
Tricuspid Valve Disease: Yes No					
(If Tricuspid Disease, Yes \rightarrow) Tricuspid Annular Echo Measurement Ava	ilable:	$\exists Yes \Box No (If Yes \rightarrow) \qquad Tricuspid Diameter: \ cm$			
(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		Reoperation-Failure of previous TV repair or replacement						
□ Degenerative		Mixed etiology						
Pacing wire/catheter induced dysfunction		Not Documented						
Pulmonic Valve								
Pulmonic Valve Regurgitation: Ves No								
(If Yes→) Pulmonic Valve Regurgitation: □ Trivial/Trace □ Mild □ Moderate □ Severe □ Not Documented								
Pulmonic Valve Stenosis: Yes No								
Pulmonic Valve Stenosis: \Box Mild \Box Moderate \Box Severe \Box	Not Doci	imented						
$(If Yes \rightarrow)$								
$(\Pi \ \Gamma es \rightarrow)$ Hemodynamic /Echo data available: \Box Yes \Box No								
(If Yes→) Mean Gradient : mmHg								
Pulmonic Valve Disease: Yes No								
(If Pulmonic Valve Disease, Yes→) Etiology: (choose one)								
		Endocarditis						
Radiation induced heart disease		Endocarditis, Prosthetic valve						
Congenital, s/p Tetralogy of Fallot (TOF) repair		Mixed etiology						
Congenital, no prior Tetralogy of Fallot (TOF) repair		Other						
□ Reoperation-Failure of previous PV repair or replacement		Not Documented						

I. Operative							
Surgeon: Surgeon	NPI:						
Taxpayer Identification Number:							
Indicate whether the STS Risk Calculator score was discussed with the patient/family prior to	surgery. +	++					
□ Yes, STS risk calculator score was calculated and discussed with the patient/family							
□ No, STS risk calculator score was available for scheduled procedure but not discuss							
was not documented							
□ NA, Not applicable (emergent or salvage case, or no risk model available for this procedure)							
Incidence: **	Third re-	op cardiovascular surgery					
		more re-op cardiovascular surgery					
	NA- not a	a cardiovascular surgery					
Status: ** Elective Urgent Emergent Emergent Salvage							
(If Urgent or Emergent or Emergent Salvage choose the most pressing reason \downarrow)							
Urgent / Emergent/ Emergent Salvage reason:	_						
		PCI Incomplete without clinical deterioration					
□ Anatomy		PCI or attempted PCI with clinical deterioration					
Aortic Aneurysm		Pulmonary Edema					
$\Box \text{Aortic Dissection} \\ \Box \text{CHF}$		Pulmonary Embolus					
		Rest Angina					
Device Failure		Shock, Circulatory Support					
 Diagnostic/Interventional Procedure Complication Endocarditis 		Shock, No Circulatory Support					
□ Failed Transcatheter Valve Therapy, acute annular disruption		Syncope Transplant					
□ Failed Transcatheter Valve Therapy , acute annual distuption □ Failed Transcatheter Valve Therapy , acute device malposition		Trauma					
□ Failed Transcatheter Valve Therapy, subacute device disfunction		USA					
\Box IABP		Valve Dysfunction					
□ Infected Device		Worsening CP					
□ Intracardiac mass or thrombus		Other					
□ Ongoing Ischemia	_						
	minal Inc	vision .					
Initial Operative Approach: Partial sternotomy Data sternotomy							
$\Box \text{ Sub-xiphoid} \qquad \Box \text{ Port Access}$							
□ Thoracotomy □ Other							
Approach converted during procedure: Yes No							
Robot Used: \Box Yes \Box No (If Yes \rightarrow) \Box Used for entire operation \Box Used for part of the	e operatio	on					
Coronary Artery Bypass Procedure	1						
Performed: \Box Yes, unplanned due to surgical complication \Box Y	es, unpla	unned due to unsuspected disease or anatomy					
\square No (If Yes complete Section J)	, 1	1					
Aorta Procedure Performed:							
7							

		□ Yes, unplanned due to surgical complication									
		Yes, unplanned due to unsuspected disease or anatomy									
	□ No	No									
	(If Yes complete Section M 2)										
		\rightarrow) Did the surgeon provid	le input for aortic surgery data a	abstraction? \Box Yes \Box No							
Valve Procedure Performed:	□ Yes □ No										
		Was a valve explanted:	\Box Yes \Box No								
		(If Yes complete Section	,								
		Aortic Valve	\Box Yes, planned								
		Procedure performed:	\Box Yes, unplanned due to surg								
			\Box Yes, unplanned due to unsu	ispected disease or anatomy							
		(103)	□ No								
		$(If Yes \rightarrow)$	Was a procedure performed of	h the Aorta? \Box Yes \Box No							
				1 (171)							
		Mitral Valve	(If 'Yes' complete M2; If 'No' co	mplete K1)							
			\Box Yes, planned								
	$(If Yes \rightarrow)$	Procedure performed:	\Box Yes, unplanned due to surg								
	$(11 1 \text{ cs} \rightarrow)$		\Box Yes, unplanned due to unsu	ispected disease or anatomy							
			□ No								
		Trion: 1 17.1	(If Yes complete K2)								
		Tricuspid Valve	□ Yes, planned	ical complication							
		Procedure performed:	\Box Yes, unplanned due to surg								
			\square Yes, unplanned due to unsu	ispected disease or anatomy							
			\square No								
		Dulmonic V-l	(If Yes complete K3)								
		Pulmonic Valve	\Box Yes, planned								
		Procedure performed:	\Box Yes, unplanned due to surg								
			\Box Yes, unplanned due to unsu	ispected disease or anatomy							
			\square No								
		D:141	(If 'Yes' complete K4)								
Mechanical Assist Device/Ventric		(If 'Yes" complete section	le input for valve surgery data a								
	□ Yes, unplanned due to unsu □ No	uspected disease or anatomy	7								
(If Yes, Complete Section M)											
Afib Procedure : 🗆 Yes 🗆 No (If	f Yes, Complete Section M 1)										
(If Vog)) D: 141											
$(11 \text{ fes} \rightarrow)$ Did the surged	on provide input for Afib data abstra	ction? \Box Yes \Box No									
Other Cardiac Procedure, Congen	ital Procedure (Except Unicuspid, B	icuspid, Quadricuspid Valv	e): Ves DNo (If Yes, Comple	ete Section M 3)							
Other Non-Cardiac Procedure:	Yes No (If Yes, Complete Section	n N)									
Enter up to 10 CPT-1 Codes perta	aining to the surgery for which the da	ata collection form was initiation of the second	ated:								
1	2	3	4	5							
	7	0		10							
6	7	8 24 here to all all all all all all all all all al	9	10							
OR Entry Date And Time:		m/dd/yyyy hh:mm - 24 hr clocl									
OR Exit Date And Time: ++		nm/dd/yyyy hh:mm - 24 hr clo									
General Anesthesia: 🗆 Yes 🗆 N		rocedural Sedation : Ves									
	(If General Anesthesia Yes →) I I	□ Yes, in	ior to entering OR for this proc OR for this procedure	edure							
Chin Incidion Start D (177			24 1								
	e://:										
	»://;										
Appropriate Antibiotic Selection:	++ 🗆 Yes 🗆 No 🛛 Appropriate An	ntibiotic Administration Tin		otic Discontinuation: ++							
☐ Exclusion	Yes 🛛 No	Exclusion	Yes 🗍 No 🗆 Exc								
Гетрегаture Measured: □ Yes [
$(If Yes \rightarrow) Lowest Temperature$	(°C): Temperatur	□ Nasopha □ Oxygena	eal CBP venous return C ryngeal Tympanic Recta ttor arterial outlet blood (CBP A ry Artery Other	al □Jugular-Venous							
Lowest Intra-op Hemoglobin :	I owast Inte	ra-op Hematocrit :		Glucose:							
~ ~	Lowest Intr	a op nomatoent		Siucosc							
Perfusion Strategy None None	t Damaga										
□ Left Hear	t Bypass										

	□ Combination	$(If Combination \rightarrow)$	Combination Plan:	□ Planned	□ Unplanned (If Unplanned↓)
			Unplanned Reason:		
					te size/ diffuse disease of distal vessel namic instability (hypotension/arrhythmias)
					α
	🗆 Full	(If Left Heart Bypass, C	ombination or Full 1)		· · ·
			Insertion Site: (Select all	that apply \downarrow)	
		□ Aortic □ Axi	llary 🗆] Femoral	□ Innominate □ Other
		Venous Cannulation I	nsertion Site: (Select all	that apply↓)	
		□ Femoral □ Pulr	nonary Vein] Jugular	□ SVC
		\Box Rt. Atrial \Box Lt. A	Atrial 🛛	Other	
		Cardiopulmonary By	bass Time (minutes):		
Circulatory Ar	rest: Yes No Lowest Hem	atocrit during CPB:			
		atocht during CFB			
(If Circulatory A	Circulatory P	Arrest Without Cerebral		(min)	
		Arrest With Cerebral Per		(.)	
	(If Circ Arrest Perfusion = Ye		l Perfusion Time: l Perfusion Type: □ A		Retrograde Both antegrade and retrograde
	Total Circula	tory Arrest Time:	(System Calculation	on)	Renograde In Dour anegrade and renograde
	Cooling Time	e prior to Circ Arrest:	mins		
Aortic Occlusi					
		heart Balloon Oc s clamp or Balloon occlusion		Clamp Time:	(min)
Cardioplegia D	elivery: None Anteg	-			(nnn)
Curulopiegia D				Blood	Crystalloid 🗆 Both 🗆 Other
	etry Used: Yes No				
Intraop Blood I (If Yes \rightarrow)	Products:		sed latelet Dose Pack:		
(11 1 00)					
Internet Clettin	Fresh Frozen Plasma/Plasr g Factors : □ Yes, Factor V				
•			I 🗆 Yes, FEIBA 🗆 Y	es, Composite	
-	ombin Complex concentrate:				
Was intraop Ai	ntifibrinolytic Medication gi	iven: ∐ Yes ∐ No			
$(If Yes \rightarrow$	Intraop Antifibrinolytic Me	edication (select all that	apply): 🗆 Epsilon Ami	no-Caproic Ac	id 🗆 Tranexamic Acid 🗆 Aprotinin
Intraoperative '	TEE Performed post proced		es ↓)		
	Highest level aortic insuffi ☐ None □Trivial/Trace □		Severe 🗆 Not Docume	ented	
	Mean Aortic Gradient:		Severe 🗅 Not Docume	lited	
	Aortic Paravalvular leak:				
	□No Prosthetic Valve □ N		□ Mild □ Moderate [□ Severe □ No	ot Documented
	Highest level Mitral insuff □ None □Trivial/Trace [] Severe 🗆 Not Docum	ented	
	Mean Mitral Gradient:				
	Mitral Paravalvular leak:				
	□No Prosthetic Valve □ N		□ Mild □ Moderate [□ Severe □ No	ot Documented
	Highest level Tricuspid ins □ None □Trivial/Trace □		Severe D Not Docume	ented	
	Mean Tricuspid Gradient:_				
	Tricuspid Paravalvular leal				
	□No Prosthetic Valve □ N Ejection Fraction Measured			Severe □ No Ejection Fra	
Surgery follow	ed by a planned PCI: \Box Ye			2,0000110	
~					

J. Coronary Bypass	
(If Coronary Artery Bypass = Yes ↓)	

Internal Mammary Ar	rtery (arteries)) used: ++ \Box Yes \Box	No						
(If Yes→) I	Left IMA: 🛛	Yes, pedicle \Box Y	es, skeletonized	□ No/NA					
(If Yes→) I	Right IMA: Yes, pedicle Yes, skeletonized No/NA								
(If No→) I	stenosis r Previous cardiac		osis m revious cardiac □	l Previous ediastinal radiation l Emergent or llvage procedure	 No (bypassable) LAD disease Other- acceptable STS provided exclusion (See Training Manual) 	□ Other not acceptable STS exclusion (See Training Manual)			
<u>Distal</u> Anastomoses w	vith Arterial C	Conduit(s) \Box Yes \Box	No						
(If Yes→)	Total Number	of Distal Anastomo	ses with Arterial Co	onduits:					
	Distal Ana	astomoses with Radia	al Artery Conduit(s) Xes \Box No (If Yes \rightarrow)		istal Anastomoses with radial art	ery conduits:			
			$105 \square 100 (11 105 \rightarrow)$	Radial Artery Harv	est and Prep Time:	_ (minutes)			
<u>Distal</u> Anastomoses w Yes→)	vith Venous C	Conduit(s) used: \Box Y	es 🗆 No (If	Total Number of D	istal Anastomoses with venous c	onduits:			
1 es→)				Saphenous Vein Ha	arvest and Prep Time:	(minutes)			
Proximal Technique:	□ Single Cro	oss Clamp 🛛 Partia	l Occlusion Clamp	□ Anastomotic As	sist Device				
CABG Grid Key: (Refer to Data	Specifications for H	arvest Codes)						
Proximal Site:		1=Aorta 2=T gra	If the off artery $3=T$	graft off vein 4=In	-situ IMA 5=Other				
Distal Site:		1=Left Main Coro	nary Artery (LMCA	-	Diagonal 4=Ramus Intermediu				
Distal Anastomosis	Conduit:	1=In-situ IMA 2	=Free IMA 3=Ve	ein 4=Radial artery	5=Other				
Please use the key abo	ove and enter	one							
Graft Number	I	Proximal Site	Distal Site	Conduit	Distal Position	Endarterectomy			
#1	1	-5 (drop downs)	1-11	1-5	□ Side to Side □ End to S	ide 🛛 Yes 🗆 No			
#2 □Additional Grafi □ No Additional Gr		1-5	1-11	1-5	□ Side to Side □ End to S	ide 🗆 Yes 🗆 No			
#3 □Additional Graft □ No Additional Gr		1-5	1-11	1-5	□ Side to Side □ End to S	ide 🗆 Yes 🗆 No			
#4 □Additional Graf □ No Additional Gr		1-5	1-11	1-5	□ Side to Side □ End to S	ide 🗆 Yes 🗆 No			
#5 □Additional Graft □ No Additional Gr		1-5	1-11	1-5	□ Side to Side □ End to S	ide 🗆 Yes 🗆 No			
#6 □Additional Graf □ No Additional Gr		1-5	1-11	1-5	□ Side to Side □ End to S	ide 🗆 Yes 🗆 No			
#7 □Additional Graf □ No Additional Gr		1-5	1-11	1-5	□ Side to Side □ End to S	ide 🗆 Yes 🗆 No			
#8 □Additional Graf □ No Additional Gr		1-5	1-11	1-5	□ Side to Side □ End to S	ide 🗆 Yes 🗆 No			
#9 □Additional Graf	`ts	1-5	1-11	1-5	□ Side to Side □ End to S	ide 🗆 Yes 🗆 No			

\Box No Ac	dditional Grafts											
	#10		1-5	1-1	1	1-5		□ Side to Side	E 🗆 En	d to Side	□ Yes	□No
□Addi	itional Grafts		10		-	10					_ 105	
□ No Ad	dditional Grafts											
K Valve	Surgery Expla	ant										
(If Valve Ex	xplanted (ValExp)	is Yes ↓)										
First V	alve Prosthesis E	Explant:										
	Explant Position	n:	□ Aortic □ Mi	tral 🗆 Ti	ricuspid	□ Pulmonic						
	Explant Type:		□ Mechanical Va	alve [Biopros	sthetic Valve	DF	Iomograft		□ Autog	graft	
	Zaipiane Typer							ionio grant		_ 11000	Braire	
			□ Annuloplasty	Device [Leaflet	Clip	ΠT	ranscatheter Valv	ve		scatheter Valv	e in Valve
			□ Other] Unknov	vn				with pro	sthetic valve	
	Explant Etiolog	v:	□ Endocarditis] Incomp	etence	ПР	rosthetic Deterio	ration	□ Thror	mbus	
	Explaint Eurolog	<i>.</i>	□ Failed Repair		∃ Pannus			□ Prosthetic Deterioration □ Thron □ Sizing/Positioning issue □ Other				
			□ Hemolysis			vular leak		tenosis	15540	Unkn		
	Explant Device known: \Box Yes \Box No (If Yes \rightarrow) Explant model#: Unique Device Identifier (UDI):											
	Year of Implant Known: \Box Yes \Box No (If Yes \rightarrow) Year:											
	real of implant Known. \Box res \Box no (if res \rightarrow) real.											
Second	d Valve Prosthesi	is Explant:	□ Yes □ No (If	Yes↓)								
	Explant Position	n:	□ Aortic □ Mi	tral 🗆 Tı	ricuspid	D Pulmonic						
	Explant Type:		□ Mechanical Va	alve [Biopros	sthetic Valve		Homograft		Autograft	t	
	1		□ Annuloplasty		□ Leaflet			Franscatheter Val		Ū.	neter Valve in	Valve with
	prosthetic valve						varve with					
			□ Other	Γ	□ Unknov	wn						
	Explant Etiolog	y:	□ Endocarditis			mpetence		□ Prosthetic Det	terioratio	on 🗆 Ti	hrombus	
			□ Failed Repair		🗆 Pann	nus		□ Sizing/Positio				
			□ Hemolysis			valvular leak		□ Stenosis			nknown	
	Explant Device known: ☐ Yes ☐ No (If Yes→) Explant model#: Unique Device Identifier (UDI):											
	Year of Implant Known: □ Yes □ No (If Yes→) Year:											
					ai							
Third	Valve Prosthesis	Explant:	□ Yes □ No (If Ye	es↓)								
	Explant Positing	g	□ Aortic □ Mi	tral 🗆 Tı	ricuspid	D Pulmonic						
	Explant Type:		Mechanical Va	alve		prosthetic Valve	,	□ Homograft		C	☐ Autograft	
	1					•		Ŭ			C C	
			□ Annuloplasty	Device		flet Clip		□ Transcathe	ter Valv		☐ Transcathet Valve with pro	
			□ Other		🗆 Unk	nown					varve with pr	suictie valve
	Explant Etiolog	v	□ Endocarditis			ompetence		□ Prosthetic	Deterior	ation [☐ Thrombus	
	Lipitite Libroidg.	5	□ Failed Repair		🗆 Pan	nus		□ Sizing/Pos		issue [□ Other	
	Evaluat Davias	1-m o	Hemolysis	.) Evala		avalvular leak		Stenosis	riaa Idam		\Box Unknown	
	Explant Device known: □ Yes □ No (If Yes→) Explant model#: Unique Device Identifier (UDI):											
Year of Implant Known: □ Yes □ No (If Yes→) Year:												
			itant Aorta Proce	dure								
	ortaProcPerf = No	0 ↓)										
	Performed:											
∐Rep	placement: (If Rep			No /If V								
			acement: Yes Transapical] Transfemoral	ГП	ransaortic □ Su	bclavian	Tra	ansiliac 🗆	Transeptal
			rotid			_ manoremoral			u / Iuli			- ransop an
	-	-	ent: 🗆 Yes 🗆 No									
	Device type: Mechanical Bioprosthetic Surgeon fashioned pericardium (Ozaki) Other											

1		(If Bioprosthetic \rightarrow) Valve type:	□ Stantad □ Stantlage sub son						
	-	ction (If Repair/Reconstruction, select all that apply	y ↓)						
	Repair Type (Select all that apply)+							
		□ Commissural suture annuloplasty	□ Nodular release	□ Leaflet resection suture					
			□ Leaflet shaving	□ Leaflet pericardial patch					
			-						
		□ Leaflet commissural resuspension suture		Division of fused leaflet raphe					
		□ Leaflet free edge reinforcement	□ Ring annuloplastyexternal rin	\square Ring annuloplasty internal ring					
		□ External suture annuloplasty	□ Pannus/Thrombus Removal (Native Valve)					
	C								
	Surgical Prosin	etic Valve Intervention (Not Explant of Valve	(Select All That Apply ↓)						
	Type of Interve	ention: Repair of periprosthetic leak Rem	oval of pannus 🗆 Removal of cl	ot 🗍 Other					
Type of Intervention: □Repair of periprosthetic leak □ Removal of pannus □ Removal of clot □Other									
Aortic annular enlargement: \Box Yes \Box No (If Yes \downarrow)									
	Aoruc annual enargement. I res I res I res Technique: Nicks-Nunez Manougian Konno Other Unknown								
Renlacen	-	onary sinus (Modified Wheat/Modified Yacou							
-		-							
Aortic Valve or Valve Repair Device Implant: □ Yes □ No (If Yes ↓) Implant Model Number:									
	Unique Device identifier (UDI):								
K 2 Mit	tral Valve Proc	edure							
(If Mitral V	/alve Procedure F	Performed = Yes \downarrow)							
Procedure	Performed:								
🗆 Rej	pair (If Repair↓)								
		proach: □ Surgical □ Transcatheter Select all that apply↓)							
	11 Surgical (3	ciect an mat appry()							
		□Annuloplasty □Leaflet r	resection	□Neochords (PTFE) □Chordal transfer					
			extension/replacement patch	□Edge to edge repair □Leaflet plication					
		debridement							
		Mitral commissurotomy DMitral commissurotomy	ommissuroplasty	□Mitral cleft repair: □ Pannus/Thrombus (scallop closure): removal (native valve)					
			Resection Location(s): $\Box A$	Anterior Resection Posterior Resection Both					
		(If Leaflet Resection -	→)						
			Resection Method (select a						
			□ Triangular Ale	one 🗆 Quadrangular Alone n Sliding Valvuloplasty					
				a Folding Valvuloplasty					
		(If Neochords (PTFE) -	\rightarrow) \Box Anterior \Box Posterior \Box	Both Documented					
		(If Chardal Transfor)							
		(If Chordal Transfer) -	\rightarrow Anterior Chordal transfer	• Desterior Chordal transfer Documented					
		(If Leaflet extension/replacement patch-	\rightarrow) Patch Location: \Box Anterior	□ Posterior □ Both □ Not Documented					
⊔ Rej	placement (If Re		A.T.						
		ir attempted prior to replacement: \Box Yes \Box I ds preserved: \Box Anterior \Box Posterior \Box Both							
		ter replacement: \Box Yes \Box No							
		tic Valve Intervention (Not Explant of Valve)	: (Select All That Apply \downarrow)						
		ervention: Repair of periprosthetic leak		al of Clot DOther					
Implant:	\Box Yes \Box No	(If Yes ↓)		1					
			Transcatheter device implanted Transcatheter Replacement Dev						
			Transcatheter Replacement Dev						
Impla	nt type:		Annuloplasty Ring Transcathete						
			Mitral Leaflet clip						
			Other (enter	(1.2)					
		(II Mitral Leaflet Clip \rightarrow) Number	implanted: (enter	1-3)					
Impla	nt Model Numb	er:	Implant Size						
		ifier (UDI):							
_		anted an Model #5300 – Physio Flex Annulop							
			, , , , , , , , , , , , , , , , , , , ,						

	spid Valve Procedure							
	d Valve Procedure Performe Procedure Performed	ed Yes ↓)						
Theuspiu	Toccure renormed							
🗆 Rep	air : (If Repair, select all tha							
-		anscatheter Clip/Dev		Leaflet Res				/
	acement: (If Yes \downarrow)	Type of Annuloplasty	y: 🗆 Perio	cardium L	Suture	Prosthetic Ring Pro		Other
-								
	Transcatheter Replacement		ant of Val	ve): (Select	All That	Apply)		
						** * */		
	Type of Intervention: \Box Yes \Box No (If Yes \downarrow)	Repair of periprosthe	etic leak	□ Remova	l of Pan	nus 🗆 Removal of Clot	□Other	
	Implant Type:	□ Mechanical V	alve	Annul	oplasty	device 🗆 Bio	prosthetic Valve	□ Homograft
-	inipianie Typer			\Box Transc				
	T 1 / 3 / 1 1 3 T 1	implanted open h		<u>a</u> :				
	Implant Model Number:			Size:				
	Unique Device Identifier							
	Unique Device Identinei	(UDI)						
	Was the device implanted	d an Model #5300 – I	Physio Fle	ex Annulop	olasty Ri	ng: 🗆 Yes 🗆 No		
Valvector	ny: 🗆 Yes 🗆 No							
varvector								
K. 4. Puln	nonic Valve Procedure							
	c Valve Procedure Performe	ed = Yes ↓)						
	Performed:							
	ir/Leaflet Reconstruction us or Thrombus removal	1						
		acement→) Trans	scatheter l	Replaceme	nt⊡V	es 🗆 No		
			scameter	Replaceme	ш. Ц І			
	ectomy							
Implant:	Yes No (If Yes \downarrow)	—						
	Implant Type:	□Surgeon Fa						
					(Gore-7	$Cex) \square Pericardium \square O$		
	(If Co	mmercially Supplied -	Device	Туре:		□ Mechanical Valve	□ Annuloplast	y Device
						□ Bioprosthetic Valve	□ Homograft	
						□ Transcatheter Valve	□ Other	
						□Transcatheter device in		+t
	Implant Model N	umber:	I		Size:		pranted open near	
	-	lentifier (UDI):			5120.			
	Unique Device la							
L. Mecha	anical Cardiac Assist	Devices						
Planned a	nd consented insertion of	f a device that can d	leliver a r	ninimum (of 5.0 L	of flow using an open surg	gical approach (tra	nsaxillary or transaortic)
during the	index cardiac procedure.	. 🗆 Yes 🗆 No						
Intra-Aortic	c Balloon Pump (IABP):	□ Yes □ No (If Yes	s)					
indu Hortik	IABP Insertion: **							
ECMO:	Yes □ No (If Yes ↓)							
	ECMO Mode: Veno-	vanous 🗖 Vano ar	torial 🗖	Vono Arte	arial Va	$(VAV) \square Vano X$	venous arterial (VV	7.4.)
	ECMO Initiated: **						enous arteriai (v v	(A)
Temporary	Assist Device Used:				operation	•		
	Position: \Box Open \Box							
	Type: $\Box RV \Box LV \Box$							
	When Inserted: ** \Box Pr	eop 🗆 Intraop 🗆	Postop					
Was patien	t admitted with VAD \Box `	Yes \Box No (If Yes \downarrow)						

	Device Model Number: _		UDI:				
	Previous VAD Explanted	During This Admission:	☐ Yes, not during this procedu ☐ Yes, during this procedure ☐ No				
Ventricular	Assist Device Implanted d	luring this hospitalization \Box Yes \Box] No				
(Use Key to c	complete table below -will be						
Timing: VAD Implant Indicatio	 Stand-alone VA In conjunction v In conjunction v In conjunction v Post-Operative Bridge to Tra Bridge to Recov Destination Post cardiotomy Failure Device Malfunc End of (device) Salvage 	AD procedure (Not in conjunction with CV surgical procedure (same trivith CV surgical procedure (same trivith CV surgical procedure during reoperation surgical procedure during reoperation supplantation Type: 1. Right 2. Left 3. Bive Ventricular (BiVA) Ventricular (BiVA) 4. Tota tion (TAH)	ip to the OR)- planned ip to the OR)- unplanned peration) nt VAD (RVAD) VAD VAD (LVAD) Explant entricular VAD Reason: D) al Artificial Heart	 Cardiac Transplant Recovery Device Transfer Device-Related Infection Device Malfunction End of (device) Life 			
Device:	See VAD list						
(If Yes, provi VAD IMPI	ide data on up to 3 separate de	Initial implant	2nd device implanted ? Yes	3rd Device implanted? Tyes INO (If			
	2/41/1 (5)	initial inipiant	No (If Yes \downarrow)	Yes ↓)			
Timing							
Indication							
Туре							
Device							
Implant Dat	e	//	//	//			
UDI							
		Initial explant	2nd device explanted?	3rd Device explanted			
VAD Expla	unt(s)	 Yes, not during this procedure Yes, during this procedure No 	 Yes, not during this procedure Yes, during this procedure No 	 Yes, not during this procedure Yes, during this procedure No 			
	not during this procedure or g this procedure \rightarrow) Reason						
(If Yes, n	not during this procedure \rightarrow) Date	//	//				
	Cardiac Procedures						
		= Yes ↓) See Proc ID Table to determine cle ☐ Membrane ☐ Other ☐ Not I	whether these procedures impact isolate p Documented No	rocedure categories			
Pulmonary	Thromboembolectomy	Acute Chronic No					
	l Stem Cell Therapy: 🗆 Y		LV Aneurysm Repair: 🗆 Yes 🗆 No				
			ICD with CRT [] Implantable Record	ler 🗆 None			
Lead Insert	ion: Yes No						
Lead Extra	ction: Yes, planned] Yes, unplanned due to surgical cor	mplication	insuspected disease or anatomy□ No			

Transmyocardial revascularization (TMR):
Yes
No

Tumor: Myxoma Fibroelastoma Other No

Transplant, Cardiac : 🗆 Yes 🗆 No

ASD Repair Type: Congenital (secundum)	
4	SD Repair Type:

M.1. Atrial Fibrillation P	rocedures						
(If If Afib Procedure = Yes \downarrow)							
Left Atrial Appendage Oblite	nscatheter Device	n Existenc	e \Box Other \Box No		Staple □ Epicardial Suture □	Endocardial Suture	
	_		usion device \rightarrow) UI	DI:			
Left Atrial Appendage Ampu							
Lesion location: Epicardia		Both 🗆 N	None				
(if not None, select al	l that apply) \rightarrow	□ Radiofr	equency 🗆 Cut-a	ind-sew [□ Cryo		
		requency→))]	Bipolar: 🗆 Yes 🗆 No 🗆 Not I	Documented	
Lesions Documented: Yes	Lesions Documented: □ Yes □ No (If Yes ↓)						
	Left Atrial □ Yes □ No □ Pulmonary Vein Isolation □ Posterior Box Lesion (If Yes, select all that apply →) □ Bulmonary Vein Isolation □ Posterior Box Lesion □ Epicardial Coronary Sinus Lesion □ Epicardial Posterior Wall Other (i.e. Convergent procedure) □ Other					line	
	Right Atrial	(If Yes, se	No lect all that apply \rightarrow)	□ SVC Li □ Verticle	ine \Box IVC Line \Box Tricuspid (e Right Atrial Line \Box Right At	Completion Line trial Appendage Line D Other	
M.2. Aorta And Aortic Ro (If AortProc = Yes \downarrow)	oot Procedures						
Family history of disease of ac	orta: 🗆 Aneur	ysm 🗆 🛙	Dissection D Both	Aneurysm a	nd Dissection 🛛 Sudden Dea	ath □ Unknown□ None	
Patient's genetic history:	Patient's genetic history:						
Prior aortic intervention:	□ Yes □ No □ U	Jnknown (I	f Yes↓)				
Location	Previous repair location(s)		Repair Type		Repair failure (If Yes ↓)	Disease progression (If Yes ↓)	
	Select all that appl		Select all that apply		Select all that apply	Select all that apply	
Root (Zone 0 – A)	\Box Yes \Box No		1 2		□ Yes □ No	□ Yes □ No	
Ascending (Zone $0 - B\&C$)	\Box Yes \Box No				□ Yes □ No	□ Yes □ No	
Arch (Zones 1,2,3)	□ Yes □ No □ Yes □ No		Open Endovascular Hybrid		□ Yes □ No □ Yes □ No	□ Yes □ No □ Yes □ No	
Descending (Zones 4,5) Suprarenal abdominal							
(Zones 6,7) Infrarenal abdominal	□ Yes □ No	□ Ope	en □ Endovascular [☐ Hybrid	□ Yes □ No	□ Yes □ No	
(Zone 8,9,10,11)	□ Yes □ No	-	en □ Endovascular [□ Hybrid	□ Yes □ No	□ Yes □ No	
Current Procedure with Endol		□ Yes □					
	(If)	$(\text{es} \rightarrow)$	Type I: leak at graft				
			$(\text{If Yes} \rightarrow)$		ation: \Box Ia-proximal \Box Ib -dis a branch vessel: \Box Yes \Box No	tal 🗆 Ic- iliac occluder	
			$(If Yes \rightarrow)$		f vessels: IIa: single vessel	IID: two vessels of more	
			Type III: leak throug		graft: ☐ Yes ☐ No ct type: ☐ IIIa: junctional sepa:	notion of modulor components	
			(If Yes \rightarrow)		dograft fractures or holes	ration of modular components	
	Type IV: leak through graft fabric – porosity: Yes No Type V: endotension - expansion aneurysm sac without leak: Yes No						
Current Procedure with Aorta	Infection:	□ Yes □	••	exputision	alleary our oue without leak. E		
			Aorta Infection Typ		endocarditis 🛛 Nonvalvular	andocarditis. 🗖 Nativa aorta	
		$(If Yes \rightarrow)$	☐ Grant Infection ☐Multiple infection				
Current Procedure with Traum	na:	□ Yes □	No				
	(If Yes, select all that apply \rightarrow) \Box Root						
			□ Ascending				
			□ Arch				

Presenting Symptom Presenting Symptom Presenting Symptom Primery Indiverse Information Primery Indiverse Information Primery Indiverse Information Primery Indiverse Primery Indiverse Information Primery Infor				□ Descending □ Thorac □ Abdominal	coabdominal			
Presenting Sympton			Pain CHF Cardiac A		on \Box Asymptomatic			
	Presenting Symp		njury related to Surgical Co					
Discrete Line numbers Printy indication: Discrete Column numbers Discrete Colum	r resenting symp			.)				
(if Averysen ***) Biology: Ulterative PlaquePenetrating Liter = Pseudoaceurysen ENycolic = Transmic transmiction Ulterative PlaquePenetrating Liter = Pseudoaceurysen ENycolic = Transmict transmiction Ulterative PlaquePenetrating Liter = Pseudoaceurysen ENycolic = Transmict transmiction Pret: Pseudocurve PlaquePenetrating Liter = Pseudoaceurysen ENycolic = Transmict Transmiction Pret: Pseudocurve PlaquePenetrating Liter = Pseudoaceurysen ENycolic = Transmict Transmiction Pret: Pseudocurve PlaquePenetrating Liter = Pseudoaceurysen ENycolic = Transmiction Pret: Pseudocurve PlaquePenetrating Liter Pseudoaceurysen Pret: Pseudocurve = Towas 3 Drans 4 Drans 4 Drans 5 Drans 6 Drans 7 Drans 8 Drans 10 Zrons 10 Zrons 2 Drans 3 Drans 4 Drans 5 Drans 6 Drans 7 Drans 8 Drans 10 Zrons 10			\square Stroke \square Limb numbness \square Paralysis \square Hoarseness (acute vocal cord dysfunction)					
Liborgin Ulterative PlaquePresenting Ulter Predioaeensym Mytocki Diranumbit transmitsting (if Analysin Type: Predioaeensym Analysing (if Analysing) Type: Predioaeensym Analysing (if Analysing) Type: Predioaeensym (if Analysing) Type: Predioaeensym (if Analysing) Predioaeensym Type: (if Analysing) Predioaeensym Type: (if Analysing) Predioaeensym Predioaeensym (if Analysing) Predioaeensym Predioaeensym (if Analysing) Predioaeensym Predioaeensym (if Analysing) Predioaeensym Predioaeensym Predioaeensym (if Yeers) Predioaeensym Predioaeensym Predioaeensym Predioaeensym (if Yeers) Prediaeeensym Predioaeeensym Pr	Primary Indication	on:						
(if Anaryyan) (if Anaryyan) (if Anaryan) 		Etiology:						
off Ananyym Type: Function: Diakonova Mythre::::::::::::::::::::::::::::::::::::								
Integrate Integrate Integra	(if A noursem))	Туре:						
Maximum Defenvestor Defenvestor Data accending Data accending <td>(II Alleurysin \rightarrow)</td> <td>1</td> <td></td> <td>es \rightarrow) Contained rupture: \Box</td> <td>Yes 🗆 No</td> <td></td>	(II Alleurysin \rightarrow)	1		es \rightarrow) Contained rupture: \Box	Yes 🗆 No			
Timing: ypencule (<24 hs) Acute (24hrs-<2weeks) Subacute (2weeks -<90 days) Chronic (90 days or more) Acute in Chronic Uhknown		Maximum	\Box Below STJ \Box ST	IJ-midascending □ Midasce □ Zone 3 □ Zone 4 □ Zone	nding to distal ascending e 5 □ Zone 6 □ Zone 7 □ Zone 8 □ Zor	ne 9 🗆 Zone 10 🗖 Zone 11		
Intervention Intervention Interventinterventintex Interventex					ks) □ Subacute (2weeks -<90 days) □	Chronic (90 days or more)		
location: □ Brow STJ □ STJ □ Madeeending □ Midaseending 0 distal ascending Image: Construct Construction: □ Zone 3 □ Zone 4 □ Zone 5 □ Zone 6 □ Zone 7 □ Zone 8 □ Zone 1 □ Zone 1 □ Zone 1 □ Zone 1 □ Zone 2 □ Zone 3 □ Zone 4 □ Zone 2 □ Zone 3 □ Zone 4 □ Zone 2 □ Zone 3 □ Zone 4 □ Zone 1 □ Zone 2 □ Zone 3 □ Zone 4 □ Zone 1 □ Zone 2 □ Zone 3 □ Zone 4 □ Zone 5 □ Zone 6 □ Zone 7 □ Zone 8 □ Zone 7 □ Zone 8 □ Zone 2 □ Zone 3 □ Zone 4 □ Zone 2 □ Zone 3 □ Zone 4 □ Zone 2 □ Zone 3 □ Zone 4 □ Zone 2 □ Zone 3 □ Zone 4 □ Zone 5 □ Zone 6 □ Zone 7 □ Zone 8 □ Zone 6 □ Zone 7 □ Zone 8 □ Zone 6 □ Zone 7 □ Zone 8 □ Zone 0 □ Zone 1 □ Zone 2 □ Zone 3 □ Zone 4 □ Zone 5 □ Zone 6 □ Zone 7		Dissection of	onset date known 🗆 Yes 🗆	No $(If Yes \rightarrow)$ Date of or	set://			
(ff Ys+) Most Proximal Below STJ = STJ-midascending = Midascending to distal ascending Distal Dissection Extent Known: Ys = No Unknown (ff Ys+) Distal Dissection Extension Below STJ = STJ-midascending = Midascending to distal ascending (ff Ys+) Distal Dissection Extension Below STJ = STJ-midascending = Midascending to distal ascending (ff Ys+) Distal Dissection Extension Below STJ = STJ-midascending = Midascending to distal ascending (ff Ys+) Distal Dissection Extension Below STJ = STJ-midascending = Midascending to distal ascending (ff Vs+) Distal Dissection Extension Below STJ = STJ-midascending = Midascending to distal ascending (ff Vs+) Distal Dissection Extension Distal Dissection Extension Below STJ = STJ-midascending = Midascending to distal ascending (ff Dissection ->) Retrograde dissection caused by Aortic Stent Graft (Post TEVAR): EYs = No Patient within 30 days post TAVR (Pys = No = Unknown Patient within 30 days post TAVR EYs = No = Unknown Patient Vithin 30 days Post Other Cath Procedure EYs = No = Unknown (ff Ys+) Malperfusion Type: (select all that apply): Coronary Below STJ = Coronary (ff Ys+) No = Unknown Renal, left Below STJ = STJ-midascending = Midascending to distal ascending = Dower Extremity Mo				ΓJ-midascending □ Midasce 2 □ Zone 3 □ Zone 4 □ Zon	ending to distal ascending e 5 □ Zone 6 □ Zone 7 □ Zone 8 □ Zon	ne 9 🗆 Zone 10 🗖 Zone 11		
(ff Yes) Dissection Location: Delta Dissection Extent Known: Yes No Unknown [ff Yes) Distal Dissection Extension Delta Dissection Extension Delta Dissection Extension Delta Dissection Extension [ff Yes) Distal Dissection Extension Delta Dissection Extension Delta Dissection Extension Delta Dissection Extension [ff Yes) Location: Distal Dissection Extension Delta Dissection Extension Delta Dissection Extension (if Dissection) Retrograde dissection caused by Aortic Stent Graft (Post TEVAR): Dys No Distanova Patient within 30 days post TAVR Dys No Duknown Distanova Distanova (if Pissection) Retrograde dissection caused by Aortic Stent Graft (Post TEVAR): Dys No Unknown Patient within 30 days post TAVR Dys No Unknown Distanova Distanova (if Yes) Malperfusion Type: (select all that apply): Coronary Distanova Distanova (if Yes) Malperfusion: No deficit Wes No Unknown Distanova (if Yes) Connained rupture: Distanova Distanova		Proximal Di	issection Extent Known:	Yes 🗆 No 🗆 Unknown				
Distal Dissection Extent Known: Yes No Unknown (If Yes) Distal Dissection Extension Below STJ DSTD midascending to distal ascending (If Dissection) Retrograde dissection caused by Aortic Stent Graft (Post TEVAR): Dyse 10 Zone 11 Stanford Classification: Type A Type B Unknown Other Patient within 30 days post TAVR Yes No Patient within 30 days post TAVR Pyes of Contained Tave Yes No Patientwithin 30 days post TAVR Pyes No		(If Y				ascending		
(if Yes -) Distal Dissection Extension Delow STI Distal Dissection File Zone 1 Zone 2 Zone 3 Distal Allascending Distal Dissection C Distal Dissection Distal Dissection C Distal Distal Distection Distendistic Distection C Distal Distal Distection Distendistic Distection D Distal Distection D Distal Distection D Distal Distection D <td></td> <td>D' (1 D'</td> <td></td> <td></td> <td></td> <td></td>		D' (1 D'						
(If Yes →) Location: □ Zone 1 □ Zone 2 □ Zone 3 □ Zone 4 □ Zone 5 □ Zone 6 □ Zone 7 □ Zone 8 (If Dissection →) Retrograde dissection caused by Aortic Stent Graft (Post TEVAR): DYes □ No Patient within 30 days post TAVR □Yes □ No □ Unknown Patient within 30 days post TAVR □Yes □ No □ Unknown Patient within 30 days Post Other Cath Procedure □Yes □ No □ Unknown Malperfusion: □Yes □ No □ Unknown (If Yes →) Malperfusion: □Yes □ No □ Unknown (If Yes →) Malperfusion: □Superior Mesenteric □Right Subclavia □Renal, left □Coronary □Superior Mesenteric □Right Common Carotid □Renal, right □Left Common Carotid □Iliofemoral □Left Subclavian □Spinal □Celiac □Celiac □ □Lewer Extremity Motor Function: No deficit □ Weakness □ Paralysis □ Unknown Idwer Extremity Sensory Deficit: □Yes □ No □Intamural Hematoma □Cone 1 □ Zone 2 □ Zone 3 □ Zone 4 □ Zone 5 □ Zone 6 □ Zone 7 □Zone 8 □ Zone 9 □ Zone 10 □ Zone 1 □ Zone 2 □ Zone 6 □ Zone 6 □ Zone 7 □ Zone 8 □ Zone 9 □ Zone 10 □ Zone 11 □If Other →) □ Valvular Dysfunction □ Stenosis/Obstruction □ Intramural Hematoma □Coarctation □ Endoleak □Infection □ □ If Other →) □ Valvular Dysfunction □ Stenosis/Obstruction □ Intramural Hematoma □Coarctation □ Endoleak □Infection □					idascanding \Box Midascanding to distal a	sconding		
Stanford Classification: □ Type A □ Type B □ Unknown □ Other (if Dissection →) Retrograde dissection caused by Aortic Stent Graft (Post TEVAR): □Yes □ No Patient within 30 days post TAVR □Yes □ No □ Unknown Patient within 30 days post Other Cath Procedure □Yes □ No □ Unknown Malperfusion: □ Yes □ No □ Unknown (if Yes →) Malperfusion: □ Yes □ No □ Unknown (if Yes →) Malperfusion: □ Yes □ No □ Unknown (if Yes →) Malperfusion: □ Yes □ No □ Unknown (if Yes →) Malperfusion: □ Yes □ No □ Unknown (if Yes →) Malperfusion: □ Yes □ No □ Unknown Dower Extremity Motor Function: □ No deficit □ Weakness □ Paralysis □ Unknown Lower Extremity Motor Function: □ No deficit □ Weakness □ Paralysis □ Unknown Lower Extremity Motor Putrite: □ Yes □ No (if Yes →) Contained rupture: □ Yes □ No (if Yes →) Contained rupture: □ Yes □ No (if Other →) □ Valvular Dysfunction □ Stenosis/Obstruction □ Intranural Hematoma □ Coarctation □ Endoleak □Infection □ Injury related to Surgical Complication/Perforation □ Trauma Additional Anatomical Information Actor-annular ectasia: □ Yes □ No □ Unknown (if Yes →) No □ Unknown <td></td> <td></td> <td></td> <td>\Box Zone 1 \Box Zone 2 \Box 2</td> <td>Zone 3 🗆 Zone 4 🗆 Zone 5 🗖 Zone 6 🗆</td> <td></td>				\Box Zone 1 \Box Zone 2 \Box 2	Zone 3 🗆 Zone 4 🗆 Zone 5 🗖 Zone 6 🗆			
Patient within 30 days post TAVR Yes No Unknown Patient within 30 days Post Other Cath Procedure Yes No Unknown Malperfusion: Yes No Unknown (If Yes) Malperfusion Type: (select all that apply): Coronary Superior Mesenteric Right Subclavia Renal, left Right Common Carotid Renal, right Left Common Carotid Illiofemoral Left Subclavian Spinal Celiac Lower Extremity Motor Function: No deficit Weakness Paralysis Unknown Rupture: Yes No Unknown Rupture: Yes No Rupture: Yes No (If Yes) Contained rupture: Yes No Midascending to distal ascending Zone 1 Zone 2 Zone 4 Zone 5 Zone 7 Zone 7 Zone 1 Zone 2 Zone 10 Zone 11 Zone 6 Zone 7 (If Other>) Valvular Dysfunction Stroney on 2 Zone 10 Zone 11 Contained Inferction (If Other>) Valvular Dysfunction Stroney on 2 Intamural		Stanford Cl	assification: Type A					
Patient within 30 days Post Other Cath Procedure Pyes No Unknown Malperfusion: Yes No Unknown (If Yes) Malperfusion Type: (select all that apply): Coronary Superior Mesenteric Right Subclavia Renal, left Diff. Cornon of Coronary Left Subclavian Spinal Decliac Decliac Lower Extremity Motor Function: No deficit Weakness Paralysis Unknown Rupture: Yes No Unknown Duknown Rupture: Yes No Contained rupture: Yes No (If Yes) Contained rupture: Yes No Zone 2 Zone 4 Zone 5 Zone 6 Zone 7 Zone 8 Zone 9 Zone 10 Zone 11 Decloaction Endoleak Infection (If Other) Uvalvular Dysfunction Stenosis/Obstruction Intramural Hematoma Coaretation Endoleak Infection Additional Anatomical Information Acrto-annular ectasia: Yes No	(if Dissection \rightarrow)	Retrograde	dissection caused by Aortic	Stent Graft (Post TEVAR):	∃Yes □ No			
Malperfusion: □ Yes □ No □ Unknown (If Yes →) Malperfusion Type: (select all that apply): □Coronary □Superior Mesenteric □Right Subclavia □Renal, left □Right Common Carotid □Renal. right □Left Common Carotid □Iliofemoral □Left Subclavian □Spinal □Celiac Lower Extremity Motor Function: □ No deficit □Weakness □Paralysis □Unknown Lower Extremity Sensory Deficit: □Yes □ No □Unknown Rupture: Yes □ No □Unknown (If Yes →) Contained rupture: □Yes □ No (If Yes →) Contained rupture: □Yes □ No □Zone 1 ⊇one 2 ⊇one 3 ⊇one 4 ⊇one 5 ⊇one 6 Zone 7 □Zone 8 ⊇one 9 ⊇one 10 ⊒one 11 □Zone 6 Zone 7 □Zone 8 □Zone 10 □Zone 11 (If Other →) □Valvular Dysfunction □Stenosic/Obstruction □ Traumal Hematoma □Coarcation □ Endoleak □Infection □lijury related to Surgical Complication/Perforation □ Trauma □ Zone 10 □ Zone 11 □ Zone 10 □ Zone 11 Root Sinus of Valsalva □ Yes □ No □ Unknown (I								
(If Yes) Malperfusion Type: (select all that apply): (If Yes) Coronary Superior Mesenteric Right Subclavia Renal, left Right Common Carotid Renal. right Left Subclavian Spinal Cover Extremity Motor Function: No deficit Lower Extremity Sensory Deficit: Yes Yes No (If Yes) Contained rupture: Yes No (If Yes) Contained rupture: Yes No (If Other) Contained rupture: Yes No (If Other) Valvular Dysfunction If Other) Valvular Dysfunction If Other) Valvular Dysfunction If Other) Valvular Dysfunction Stenosit/Operation Trauma Additional Anatomical Information Actro-annular ectasia: Yes No Unknown Asymmetric Root Dilation: Yes Stinus of Valsalva Yes aneurysm: (If Yes) Store on Unknown (Sect all that apply): <t< td=""><td></td><td>-</td><td></td><td></td><td>Unknown</td><td></td></t<>		-			Unknown			
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		-						
Additional Anatomical Information Additional Anatomical Information Root Arch Anomalies Type(s): select all that apply		(If Yes -	Malperfusion Type: (sele	ct all that apply):				
Additional Anatomical Information Additional Anatomical Information Additional Anatomical Information Root Arch Anomalies Type(s): select all that apply			□Coronary	□Superior Mesenteric	□Right Subclavia □Renal, l	eft		
Lower Extremity Motor Function: No deficit Weakness Paralysis Unknown Lower Extremity Sensory Deficit: Yes No Unknown Rupture: Yes No (If Yes \rightarrow) Contained rupture: Yes No (If Yes \rightarrow) Contained rupture: Yes No (If Yes \rightarrow) Contained rupture: Yes No (If Other \rightarrow) Ualvular Dysfunction Stenosis/Obstruction Information (If Other \rightarrow) Ualvular Dysfunction Stenosis/Obstruction Inframural Hematoma Coarctation Endoleak Infection Injury related to Surgical Complication/Perforation Intramural Hematoma Coarctation Endoleak Infection Root Aorto-annular ectasia: Yes No Unknown SV Aneurysm Location: Right Left Non-coronary Strue Sinus of Valsalva Yes No Unknown SV Aneurysm Location (select all that apply) : Right Left Non-coronary Arch Anomalies Yes No (If Yes \rightarrow) SV Aneurysm Location (select all that apply) : Right Left Non-coro			□Right Common Carotic	d □Renal. right	□Left Common Carotid □Iliofeme	oral		
Lower Extremity Sensory Deficit: Yes No Rupture: Yes No (If Yes \rightarrow) Contained rupture: Yes No Rupture Location: Below STJ STJ-midascending Midascending to distal ascending 2 Zone 1 Zone 2 Zone 3 Zone 4 Zone 5 Zone 6 Zone 7 2 Zone 8 Zone 9 Zone 10 Zone 11 Endoleak Infection (If Other \rightarrow) Valvular Dysfunction Stenosis/Obstruction Intramural Hematoma Coarctation Endoleak Infection Additional Anatomical Information Acorto-annular ectasia: Yes No Unknown Asymmetric Root Dilation: Yes No Unknown SV Aneurysm Location (select all that apply): Right Left Non-coronary Arch Anomalies Yes No (If Yes \rightarrow) SV Aneurysm Location (select all that apply): Right Left Non-coronary Arch Anomalies Type(s): select all that apply Arch Anomalies Type(s): select all that apply SV			□Left Subclavian	□Spinal	□Celiac			
Rupture: Yes No (If Yes \rightarrow) Contained rupture: Yes No Rupture Location: Below STJ STJ-midascending Midascending to distal ascending 2 Zone 1 Zone 2 Zone 3 Zone 4 Zone 5 Zone 6 Zone 7 2 Zone 8 Zone 9 Zone 10 Zone 10 Zone 11 Infection Infection (If Other \rightarrow) Valvular Dysfunction Stenosis/Obstruction Intramural Hematoma Coarctation Endoleak Infection Injury related to Surgical Complication/Perforation Trauma Aotto-annular ectasia: Yes No Unknown Asymmetric Root Dilation: Yes No Unknown If Yes \rightarrow) Dilation Location: Right Left Non-coronary Sinus of Valsalva Yes No Unknown SV Aneurysm Location (select all that apply): Right Left Non-coronary Arch Anomalies Yes No (If Yes \rightarrow) Arch Anomalies Type(s): select all that apply					lysis 🗆 Unknown			
$ \begin{array}{ c c c c c c c c } \hline Contained rupture: & Yes \square No \\ \hline Rupture Location: & Below STJ \square STJ-midascending \square Midascending to distal ascending \\ \square Zone 1 \square Zone 2 \square Zone 3 \square Zone 4 \square Zone 5 \square Zone 6 \square Zone 7 \\ \square Zone 8 \square Zone 9 \square Zone 10 \square Zone 11 \\ \hline Clf Other \rightarrow) & Valvular Dysfunction \square Stenosis/Obstruction \square Intramural Hematoma \square Coarctation \square Endoleak \square Infection \\ \square Injury related to Surgical Complication/Perforation \square Trauma \\ \hline Additional Anatomical Information \\ \hline Aorto-annular ectasia: □ Yes □ No □ Unknown (If Yes \rightarrow) Dilation Location: □ Right □ Left □ Non-coronary \\ \hline Sinus of Valsalva \square Yes □ No □ Unknown (If Yes \rightarrow) \hline SV Aneurysm Location (select all that apply) : □ Right □ Left □ Non-coronary \\ \hline Arch Anomalies □ Yes □ No (If Yes \downarrow) \\ \hline Arch Anomalies Type(s): select all that apply \\ \hline \end{array}$				es 🗆 No 🗆 Unknown				
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		Rupture: 🗆						
Image: Constant of the state of the st		(If Yes \rightarrow		\Box Yes \Box No				
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$			Rupture Location:	\Box Zone 1 \Box Zone 2 \Box Zo	ne 3 🗆 Zone 4 🗆 Zone 5 🗖 Zone 6 🗆 Z			
Additional Anatomical Information Additional Anatomical Information Acrto-annular ectasia: Yes No Unknown Asymmetric Root Dilation: Yes Sinus of Valsalva Yes No Unknown (If Yes →) SV Aneurysm Location (select all that apply) : Arch Anomalies Yes Yes No Arch Anomalies Type(s): select all that apply								
Aorto-annular ectasia: Yes No Unknown Asymmetric Root Dilation: Yes No Unknown (If Yes \rightarrow) Dilation Location: Right Left Non-coronary Sinus of Valsalva Yes No Unknown SV Aneurysm Location (select all that apply): Right Left Non-coronary Arch Anomalies Yes No (If Yes \rightarrow) SV Aneurysm Location (select all that apply): Right Left Non-coronary Arch Anomalies Yes No (If Yes \rightarrow) SV Aneurysm Location (select all that apply): Right Left Non-coronary	(If Other \rightarrow)				ematoma LiCoarctation Li Endoleak			
Aorto-annular ectasia: Yes No Unknown Asymmetric Root Dilation: Yes No Unknown (If Yes \rightarrow) Dilation Location: Right Left Non-coronary Sinus of Valsalva Yes No Unknown SV Aneurysm Location (select all that apply): Right Left Non-coronary Arch Anomalies Yes No (If Yes \rightarrow) SV Aneurysm Location (select all that apply): Right Left Non-coronary Arch Anomalies Yes No (If Yes \rightarrow) SV Aneurysm Location (select all that apply): Right Left Non-coronary								
Root Asymmetric Root Dilation: \Box Yes No \Box Unknown $(If Yes \rightarrow)$ Dilation Location: \Box Right $Left$ $Non-coronary$ Root Sinus of Valsalva \Box Yes No \Box Unknown SV Aneurysm Location (select all that apply): \Box Right $Left$ $Non-coronary$ Arch Anomalies \Box Yes No $(If Yes \rightarrow)$ SV Aneurysm Location (select all that apply): \Box Right $Left$ $Non-coronary$ Arch Anomalies \Box Yes No $(If Yes \rightarrow)$ SV $Aneurysm Location (select all that apply)$ \Box Right $Left$ $Non-coronary$	Additional Anat			Unknown				
Root Sinus of Valsalva aneurysm: Yes No Unknown (If Yes \rightarrow) SV Aneurysm Location (select all that apply) : Right Left Non-coronary Arch Anomalies Yes No (If Yes \rightarrow) SV Aneurysm Location (select all that apply) : Right Left Non-coronary Arch Anomalies Yes No (If Yes \downarrow) Image: Select all that apply Image: Select all that apply					Dilation Location: Right Left	Non-coronary		
Arch Anomalies □Yes □No (If Yes ↓) Arch Anomalies Type(s): select all that apply	Root	Sinus of Val		Unknown SV Aneurysm				
	Arch Anomalies		o (If Yes ↓)					
Arch Tupo Dight Aborrant Dight Subalayian Wammerall/Ductus Pulsa		Arch Anoma	alies Type(s): select all that	apply				
Arch Type Right DAberran Right Subcravian Dictus Bulge		□Arch Type	e Right □A	berrant Right Subclavian	□Kommerell/Ductus Bulge			

	lVariant vertebral origin	□Aberrant Left Sub	clavian:	Bovine:	
Patent internal ma	mmary artery bypass graft:	\Box Yes \Box No	D □ N/A		
Ascending A	symmetric Dilatation:	□ Yes □ No □ Unkr	iown		
	roximal coronary bypass grafts:	□ Yes □ No □ Unkr	iown		
Measurements (L	argest Diameter)			di di 1	1:
Treated Zone with	the Largest Diameter:	$\Box \text{ Zone } 1 \Box \text{ Zone } 2 \Box \\\Box \text{ Zone } 7 \Box \text{ Zone } 8 \Box$	Zone 3 🗆 Zone 4 🗆		nng
Measurement:			mm		
Method Obtained:		□ 3D or 4D Reconstru	iction PreOp CT	□ PreOp MRI □	PreOp Echo 🗆 Intra Operatively
Proximal to Treated	d Zone(s) (Largest Diameter) A	vailable: \Box Yes \Box No (If Yes \rightarrow)	□ Zone 1 □ Zone 2	STJ	
			Method Obtained:		uction
Distal to Treated Z	one(s) (Largest Diameter) Avai	lable: □Yes □No	□ Zone 1 □ Zone 2	□ PreOp Echo □ Int STJ □ STJ-midascend 2 □ Zone 3 □ Zone 4 3 □ Zone 9 □ Zone 10	ing □ Midascending-distal ascending □ Zone 5 □ Zone 6
		$(\mathrm{If}\;\mathrm{Yes}\to)$	Measurement:		mm
			Method Obtained:	□ 3D or 4D Reconst □ PreOp Echo □ Intra	ruction □ PreOp CT □ PreOp MRI a Operatively
Intervention					
(If Aorta Procedure 1					
Aortic Valve or Ro	di	Yes, planned \Box Yes sease or anatomy \Box N Yes \downarrow)		\Box irgical complication \Box	Yes, unplanned due to unsuspected
Procedure Pe	erformed:				
	ent (If Replacement↓)				
	Transcatheter Valve Replacer	nent: 🗆 Yes 🗆 No			
	$(If Yes \rightarrow) Approach: \Box Transloce T$	nsapical 🗆 Transaxil nsiliac 🗆 Transeptal			ıbclavian
	Surgical valve Replacement:				
	(If Yes \rightarrow) Device type:	□ Mechanical □	Bioprosthetic	rgeon fashioned pericar	dium (Ozaki) 🛛 Other
	(If Biopro	sthetic \rightarrow) Valve type:	□ Stented □ Stentle	ss sub coronary valve o	nly 🗆 Sutureless/rapid deployment
□ Repair/R	econstruction (If Repair/Reconstr	uction \downarrow)			
	Repair Type (Select all that app				
	Commissural suture annul		Nodular Release		□Leaflet resection suture
	□Leaflet plication		Leaflet Shaving		□Leaflet pericardial patch
	□Leaflet commissural resusp		Leaflet debridement		\Box Division of fused leaflet raphe
	□Leaflet free edge reinforcer		Ring annuloplasty ex	-	□Ring annuloplasty internal ring
	□External Suture Annuloplas	-		moval (native valve)	
□Surgical I	Prosthetic Valve Intervention: (1	<u> </u>	-		
A ortio annu	Type of Intervention: \Box Repa lar enlargement \Box Yes \Box No	ir of periprosthetic leak	□ Removal of pann	us Removal of clot	t 🛛 Other
Aortic annu					
$(If Yes \rightarrow)$		ç] Unknown	
Replacemer	nt of non-coronary sinus (Modif	ied Wheat/Modified Ya	coub) 🗆 Yes 🗆 No		
Root Procee	dure: □ Yes □ No (If Yes↓)				

	Root Replacement	with coronary Ostial Reimpla	antation 🛛 Yes 🗆 No		
	(If Yes -	\rightarrow) Composite Valve Con	duit 🛛 Valve Sparing Ro	ot	
		(If Composite Valve Conduit \rightarrow)	□ Mechanical □ Biopros □ Autograft with Native P	sthetic D Homograft Root Rep Pulmonary Valve (Ross)	placement
			□Ste	nted Valve Conduit DStentles ntless Biologic Full Root	ss Valve Conduit
		(If Valve Sparing Root \rightarrow)	\Box Valve sparing root reim	-	
			□ Valve sparing root remo □ Valve sparing root reco		
	Coronary Reimpla	with vein Graft	1		
	Major root reconst □ Yes □ No	ruction/ debridement without	coronary ostial reimplantat	ion	
(If AortProc = Ye	s ↓)				
Surgical Ascend	ding/Arch Procedur	re □ Yes □ No (If Yes ↓)			
-	-	idascending	distal ascending \Box Zone 1 \Box 2	Zone 2 \Box Zone 3	
		Jnclamped □ Clamped			
	-	orta \Box Hemiarch \Box Zone 1 \Box		4	
		at trunk □ Frozen Elephant tr n: □ Yes □ No (If Yes ↓ - selec			
Alcii bla	-	tion: □Innominate	□Right Subclavian	□Right Common Carotid	□Left Common Carotid
	Aren Branen Loca	□Left Subclavian	□Left Vertebral		
Open Surgical I	Descending Thoraci	ic Aorta or Thoracoabdomina	Procedure (If Yes ↓): □ Ye	s 🗆 No	
	Location: \Box Reone 6 \Box Zone 7 \Box 2	everse Hemiarch 🗆 Zone 0 🗆 Zone 8 🗆 Zone 9	Zone 1 🗆 Zone 2 🗆 Zone	$3 \square$ Zone $4 \square$ Zone 5	
Intercosta	al Reimplantation:	□ Yes □ No			
Distal Lo	cation:	ione 3 🗆 Zone 4 🗆 Zone 5	□ Zone 6 □ Zone 7 □ Zo	ne 8 🗆 Zone 9 🗖 Zone 10 🗖	Zone 11
Visceral	vessel intervention:	\Box Yes \Box No (If Yes \downarrow)			
	Celiac: 🗆 Reimpl	lantation \Box Branch Graft \Box	None		
	Superior mesent	teric: Reimplantation	Branch Graft 🛛 None		
	Right Renal: 🗆 R	eimplantation D Branch Gra	ft 🗆 None		
	Left Renal: 🗆 Re	implantation 🛛 Branch Graft	t 🗆 None		
Endovascular Pr	$rocedure(s) : \Box Yes$	No (If Yes ↓)			
	□ Fe id □ LV Apex neous Access: □ Y		l Aorta 🗆 Lt. Subclavian/A	Axila 🗆 Rt. Subclavian/Axila	□ Ascending Aorta
			1. DV.1 1.	· 1' · 1 1'	
Proxim	al landing zone:	□ Below STJ □ STJ-mida: □ Zone 1 □ Zone 2 □ Zon □ Zone 8 □ Zone 9 □ Zon	e 3 \Box Zone 4 \Box Zone 5 \Box		
Distal la	anding zone:	□ Below STJ □ STJ-midas □ Zone 1 □ Zone 2 □ Zon □ Zone 8 □ Zone 9 □ Zon	e 3 \Box Zone 4 \Box Zone 5 \Box		
Ascend	ing TEVAR : 🗆 De	edicated IDE			
Arch Vessel ma	nagement				
Innomii		ive Flow □ Endovascular Br ra-anatomic Bypass □ Fenes			
		a-anatomic bypass (select all that			
			□Aorta-Innomir	nate	□Aorta- right subclavian
			□Right Carotid-	Right subclavian	Other
Left Car	rotid: 🗆 Nati	ve Flow 🗆 Endovascular Bra	anch Graft 🛛 Endovascula	ur Parallel Graft	
		a-anatomic Bypass 🛛 Fenes			

	(If Extra-anatomic bypass (select all the	at apply)→)	Location:
			□Aorta- left carotid □ Innominate- left carotid
			□Right carotid- Left carotid □Other
Left Subclavian:	□ Native Flow □ Endovascular F		
	□ Extra-anatomic Bypass □ Fen (If Extra-anatomic bypass (select all th		lo Flow Restored Location:
		((((((((((((((((((((((((((((((((((((((□Aorta- left subclavian □Left carotid- left subclavian □Other
Visceral Vessel managem	ont		
Celiac:		Duon oh Cuof	Endoversauler Devellel Craft DEvice anotomic Durage Depositented
Cenac.	□ No Flow Restored		t 🗆 Endovascular Parallel Graft 🗆 Extra-anatomic Bypass 🗆 Fenestrated
	(If Extra-anatomic bypass (select all th	at appiy)→)	
			□Aorta- celiac □Iliac-celiac □Other
Superior mesenteric:	□ No Flow Restored		Endovascular Parallel Graft Extra-anatomic Bypass Fenestrated
	(If Extra-anatomic bypass (select all th	at apply)→)	Location:
			□Aorta- superior mesenteric □Iliac- superior mesenteric □Other
Right renal:	□ No Flow Restored		t \Box Endovascular Parallel Graft \Box Extra-anatomic Bypass \Box Fenestrated
	(If Extra-anatomic bypass (select all th	at apply)→)	Location:
			\Box Aorta- right renal \Box Iliac- right renal \Box Other
Left renal:	□ Native Flow □ Endovascular F □ No Flow Restored	Branch Graft	□ Endovascular Parallel Graft □ Extra-anatomic Bypass □ Fenestrated
	(If Extra-anatomic bypass (select all th	at apply) \rightarrow)	Location:
			□Aorta- left renal □Iliac – left renal □Other
Right Iliac:	□ Native Flow □ Bifurcated Gra	aft 🛛 Extra	-anatomic Bypass D No Flow Restored
	(If Extra-anatomic bypass (select all the	at apply)→)	Location:
			□Femoral-Femoral □Other
Left Iliac:	□ Native Flow □ Bifurcated Gra	aft 🛛 Extra	-anatomic Bypass 🗆 No Flow Restored
	(If Extra-anatomic bypass (select all th	at apply) \rightarrow)	Location:
			□Femoral-Femoral □Other
Internal Iliac Prese	rved: □ Right Iliac only □ Left Ili	iac only 🛛 H	Both \square No
Other Visceral Ves	ssel(s) Extra-anatomic Bypass: 🗆 Y	es □ No	
	(If Yes (select all that	apply) \rightarrow) I	location:
			Aorta-other DIliac-other DOther
Planned Staged Hy	/brid: 🗆 Yes 🗆 No		
Other Endovascular Proc	edural Information		
-	mal entry tear covered: \Box Yes \Box No		
	of procedure: \Box Yes \Box No (If Yes -	$\rightarrow)$	Type: \Box Ia \Box Ib \Box II \Box III \Box IV \Box V
Conversion to op	ben: \Box Yes \Box No (If Yes \rightarrow)		Conversion reason:
			□ Deployment failure □ Endoleak □ Rupture □ Occlusion/loss of branch
Intraop Dissection	n Extension: 🗆 None 🗆 Antegrade	□ Retrograd	
Unintentional rup	oture of dissection septum:	No (If Yes −	\rightarrow) Location:
			Deley STI D STI midescending
			 Below STJ STJ-midascending Midascending-distal ascending
			\Box Zone 1 \Box Zone 2 \Box Zone 3 \Box Zone 4 \Box Zone 5
Additional Procedural Int	formation		□ Zone 6 □ Zone 7 □ Zone 8 □ Zone 9 □ Zone 10 □ Zone 11
	Pre- aortic procedure	rtic procedur	
IntraOp Motor Evoked Pote		-	ocumented MEP abnormality Yes No Unknown
-	oked Potential: Yes No		ocumented SEP abnormality \Box Yes \Box No \Box Unknown
- ·			-
IntraOp EEG: Yes No IntraOp Introvisional Intro		$(11 \ 1 \text{ es} \rightarrow) \mathbf{D}$	ocumented EEG abnormality Yes No Unknown
-	sound(IVUS): Yes No		
IntraOp Transcutaneous Do	oppler: ⊔ Yes ⊔ No		

Intraoperative Angiogram:	$Yes \ \Box \ No \ (\mathrm{If} \ \mathrm{Yes} \rightarrow)$	Volume of contrast:n	hl Fluoroscopy time:_	min
Endovascular Balloon Fenest	ration of the Dissection Flap:	PreOp IntraOp PostOp] N/A	
Devices				
	No (If Yes, list aorta proximal to di			
Aortic Valve or Aor	tic Valve Composite Graft Impla	anted \Box Yes \Box No (If Yes \downarrow)		
Implant 1	Model Number:			
Implant S	Size:			
Unique I	Device identifier (UDI):			
Aorta Devices				
Implant Method: Outcome:	c valves and aortic valve comp 1=Open Surgical 2= Endova 1= Unsucessfully implanted/	A. Below sinotubu B. Sinotubular jur C. Mid ascending D. Zone 1 (betwee E. Zone 2 (betwee F. Zone 3 (first 2 G. Zone 4 (end of H. Zone 5 (mid de I. Zone 6 (celiac J. Zone 7 (superio K. Zone 8 (renal to L. Zone 9 (infrare M. Zone 10 (comm N. Zone 11 (extern (Refer to Data Spe	action to mid ascending to distal ascending en innominate and left carotid en left carotid and left subclav cm. distal to left subclavian) zone 3 to mid descending aor scending aorta to celiac) to superior mesenteric) or mesenteric to renals) o infra-renal abdominal aorta) nal abdominal aorta) non iliac)) ian) ta ~ T6)
Model Number:	Enter device model number			
UDI:	Enter unique device identifie		Nf. 3-1 NT 3	LIDI
Location (Letter)	Implant Method	Outcome	Model Number	UDI

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 \rightarrow) Diagnosis 3:
Congenital Procedures: Select up to three most significant: (refer to "Congenital Diagnoses/Procedures List" document)
Procedure 1: Procedure 2: (If not No Other Congenital→) Procedure 3:

. Other Non-Cardiac Procedures (If Other Non-Cardiac Procedure = Yes ↓)	
arotid Endarterectomy: 🗆 Yes, planned 🛛 🗆 Yes, unplanned due to surgical complication	
\Box Yes, unplanned due to unsuspected disease or anatomy \Box No	
ther Vascular: Yes, planned Yes, unplanned due to surgical complication	
\Box Yes, unplanned due to unsuspected disease or anatomy \Box No	
ther Thoracic: Yes, planned Yes, unplanned due to surgical complication	
\Box Yes, unplanned due to unsuspected disease or anatomy \Box No	
ther: Yes, planned Yes, unplanned due to surgical complication	
\Box Yes, unplanned due to unsuspected disease or anatomy \Box No	

O. Post-Operative				
Patient expired in OR.	\Box Yes \Box N	No (If No↓)		
Peak Postoperative Cre	eatinine	Peak Postoperative Creatinine Level	Discharge Hemoglobin:	Discharge Hematocrit:
Level within 48 hours	of OR Exit:	prior to discharge:		
		y: \Box Yes \Box No (If Yes \downarrow)		
Red Blood Cell U	nits:	Fresh Frozen Plasma/Plasma Units:	Cryoprecipitate Units:	Platelet Dose Pack:
Extubated in OR:				
(If "No" or "N/A" \rightarrow)	Initial Extub	ation Date and Time://	(mm/dd/yyyy hh:mm	n - 24 hr clock)
	(for N/A leave	this field blank)++		
	Total post-op	p initial vent hour (system of	calculation)	
Re-intubated /or intuba	ated Post Op I	During Hospital Stay: 🛛 Yes 🗆 No ((If yes \rightarrow) Additional Hours Ventilated: ++	+
Total post-operative ve	entilation hou	rs: ++ (System Calculation)		
ICU Visit: 🗆 Yes 🗆	No (If Yes \rightarrow)	Initial ICU Hours:		
Readmission to ICU:	🗆 Yes 🗆 No	(If Yes \rightarrow) Additional ICU Hours:		
Post Op Echo Perform	ed to evaluate	e valve(s): \Box Yes \Box No (If Yes \downarrow)		
Level aortic ins	sufficiency fo	und: 🗆 None 🛛 Trivial/Trace 🗆 Mil	d □ Moderate □ Severe □ Not Docume	ented
Aortic Paravaly				
		\square Mild \square Moderate \square Severe \square Not		
		ound: 🗆 None 🛛 Trivial/Trace 🗆 Mi	ld □ Moderate □ Severe □ Not Docum	ented
Mitral Paravaly				
		☐ Mild □ Moderate □ Severe □ Not		
			Mild Doderate Severe Not Doce	
			Mild D Moderate D Severe D Not Do	cumented
Post Op Ejection Fract	ion: 🗆 Yes 🛛	\square No (If Yes \rightarrow) Post Op Ejection	Fraction: (%)	

P. Postoperativ	e Events	
(If Expired in OR =]	No↓)	
Surgical Site Com	plications during postoperative pe	eriod 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
		\Box Yes, >30 days after procedure but during hospitalization for surgery
(If Yes,		
Infectious or	Deep Sternal: ++	□Yes, within 30 days of procedure
Yes, Both \rightarrow)	-	□Yes, greater than 30 days but during initial hospitalization

	(If either Yes value \rightarrow) Diagnosis Date: // (mm/dd/yyyy)						
	Thoracotomy (within 30 days or initial hospitalization): Yes No Conduit Harvest (within 30 days or initial hospitalization): Yes- No						
	Cannulation Site (within 30 days or initial hospitalization): \Box Yes \Box No						
(If Yes, Non-	Non-Infective Surgical Wound Dehiscence (includes non-infective sterile wound): Sternal Superficial Deep Sternal						
Infectious or Yes, Both→)							
Is there evidence t	hat the patient had a deep sternal wound infection within 90 days of the procedure:						
is there evidence th	hat the patient had a deep sternal would infection within 90 days of the procedure. \Box Tes \Box No \Box Onknown						
Other In Hospital I	Postoperative Event Occurred: \Box Yes \Box No (If Yes \downarrow)						
Operative							
	g/Tamponade: ++ \Box Yes \Box No (If Yes \rightarrow) Bleed Timing: \Box Acute \Box Late						
ReOp for Valvular	Dysfunction: $++$ \Box Yes, surgical \Box Yes, transcatheter \Box No						
	ry Artery Intervention: ++						
	$(e_{s} \rightarrow)$ Vessel: \Box Native coronary \Box Graft \Box Both Intervention Type: \Box Surgery \Box PCI \Box Both						
	ion: ++ \Box Yes \Box No (If yes \rightarrow) Type: \Box Open \Box Endovascular						
ReOp for Other Ca	ardiac Reasons: ++						
	R for Other Non-Cardiac Reasons: 🗆 Yes 🗆 No						
	anned delayed sternal closure: Yes No						
Infection							
Sepsis: Yes							
Neurologic, Centr							
	$Re: ++ \square Yes \square No$						
Encephalopathy: [l Yes L No						
Neurologic, Perip	horal						
	Paralysis >24 Hours: Yes \Box No						
Paresis >24 hours:							
	al Nerve Injury: Yes No						
<u>Pulmonary</u>							
	tion: Yes No (OR exit time until initial extubation, plus any additional reintubation hours)						
$(If Yes \rightarrow)$	Tracheostomy Required after OR Exit 🗆 Yes 🖾 No						
Pneumonia: 🗆 Ye	boembolism: \Box Yes \Box No						
	equiring Drainage: \Box Yes \Box No						
	juiring Intervention: \Box Yes \Box No						
Renal							
Renal Failure: ++	\Box Yes \Box No						
	$(\text{If Yes} \rightarrow)$ Dialysis (Newly Required): \Box Yes \Box No $(\text{If Yes} \rightarrow)$ Required after Hospital Discharge: \Box Yes \Box No						
Vascular							
	section: \Box Yes \Box No						
Acute Limb Ische	mia: 🗆 Yes 🗆 No						
	ombosis: Ves No						
Mechanical assis	t device related complication : □ Yes □ No (If Yes ↓)						
	Type of Complication: (select all that apply)						
	Cannula/Insertion site issue Hemorrhagic						
	Thrombotic/Embolic						
	Characterian Characterian Complication						
Other	Cher mechanical assist device related complication						
	nce Requiring Permanent Pacemaker: 🗆 Yes 🗆 No						
Cardiac Arrest:							
	tion \square Yes \square No (If Yes \downarrow)						
	Aortic Dissection: Yes No						
	Northe Dissection: \Box res \Box NoPost Op Aortic Endoleak: \Box Yes \Box No(If Yes \rightarrow) Type: \Box Ia \Box Ib \Box II \Box IV \Box V						
	Aortic Side Branch malperfusion: \Box Yes \Box No						
	Aortic stent graft induced entry tear: Yes No No						
Anticoagulant Ble	eeding Event: Yes No						
(If Yes							

Heparin Induced Thrombocytopenia (HIT) 🗆 Yes 🗆	No $(If Yes \rightarrow)$ Heparin Induced Thrombocytopenia Thrombosis (HITT) \Box Yes \Box No
Pericardiocentesis:: Yes No	
Gastro-Intestinal Event: □ Yes □ No □Ischemic B	owel Gastrointestinal Bleed Pancreatitis Cholecystitis
□Liver Dysf	unction/Liver Failure Illeus IOther
(If Yes, select all that apply \rightarrow)	

Atrial Fibrillation: □ Yes □ No

). Discharge / Mortality							
			r in-hospital): ++ 🛛 Alive 🛛 I				
Did the patient transfer to an	nother acute	e care hospit	al after this procedure during san	ne stay: 🗆 Yes 🗆 No	(If Yes \rightarrow) Date Transferred://	
4h		: 4-1 0-44:					
s the patient still in the Acu	ite Care Ho	spital Setting	g: \Box Yes \Box No (If No \downarrow)				
			(mm/dd/yyyy)				
Status at Hospital I	Discharge++	÷	Discharged Alive, last kno		r than Hosp	ice)	
			□ <u>Discharged Alive, died af</u> □ Discharged to Hospice	ter discharge			
			\Box Discharged to Hospice \Box <u>Died in hospital</u>				
(If Discharge Alive, la		Discharge	Location: Home Extend		Care Unit/R	ehab	
status alive OR Disch Alive, died after disch			□ Nursing Home □	Left AMA 🛛 Otl	her		
		on = Extended	A outo/Short torm Dohoh DI	ang taun Dahah 🗆 U	almorra		
		n = Extended Jnit/Rehab \rightarrow)	□Acute/Short-term Rehab □I	Jong-term Kenad ⊔U	IIKIIOWII		
		,					
(If Discharge Locat	tion is <u>NOT</u>	Left AMA→)	Cardiac Rehabilitation Referra	1:	□ Ye	s \Box No \Box Not Applicable	
			Substance Use Screening and	Counceline Derformer	d 🗆 Va	No. Not Appliaghla	
				Counseiing Performed	ed Yes No Not Applicable		
			(NQF 2597):				
			Medications Prescribed at Disc	harge			
				Aspirin		□ Yes □ No □ Contraindicated	
			Antiplatelet++	ADP Inhibitor		□ Yes □ No □ Contraindicated	
		Other An			□ Yes □ No □ Contraindicated		
			Anticoagulant	Direct Oral Ant	icoagulant	□ Yes □ No □ Contraindicated	
				Warfarin (Coun	nadin)	□ Yes □ No □ Contraindicated	
				Other Anticoag		\Box Yes \Box No \Box Contraindicated	
			ACE or ARB		□ Yes □ No □ Contraindicated		
					□ Not Indicated (see Training Manual)		
			Amiodarone		□ Yes □ No □ Contraindicated		
			Beta Blocker ++		□ Yes □ No □ Contraindicated		
	Lipid Lowering - Statin ++ Lipid Lowering - Other			+	□ Yes □ No □ Contraindicated □ Yes □ No □ Contraindicated		
(If Status at Hospital D	ischarge is	Mortality	- Date++//	(mm/dd/yyvv)			
'Discharged Alive,	Died after			_ < /			
discharge' OR 'Dis	$\frac{\text{scharged to}}{\text{ospice}^2 \rightarrow }$						
(If Status at Hospital D	ischarge is	<u>Operative</u>	Mortality: ++				
'discharged alive							
discharge' OR 'Dis	scharged to $spice' \rightarrow)$						
(If Status at Hospital D	ischarge is	Post Disch	arge death location:	Home Extend	led Care Fa	cility 🗆 Hospice	
<u>'Discharged to Ho</u>			-	□ Acute Rehabilitatio	on 🗆 He	spital during readmission	
<u>'Discharged Alive</u> disc	$\frac{\text{died after}}{\text{charge'} \rightarrow}$		I	□ Other □ Unkno	own		
(If Died in I		Primary C	ause of Death (select only one)	Cardiac 🛛 Neurolo	gic 🗆 Rei	nal 🗆 Vascular 🗆 Infection 🗆	
``	÷ /		y □ Unknown □ Other		-		

 R. Readmission

 (If Status at Hospital Discharge = Discharged alive, last know status = alive or Discharged alive, died after discharge ↓)

Readmit : ++ \Box Yes \Box No \Box Unknown (If Yes \downarrow)

Readmit Date: // (mm/dd/yyyy)			
Readmit Primary Reason:			
□ Angina	Pericardial Effusion and/or Tamponade		
Anticoagulation Complication - Pharmacological	Pericarditis/Post Cardiotomy Syndrome		
Anticoagulation Complication – Valvular	Pleural effusion requiring intervention		
□ Aortic Complication	Pneumonia		
Arrhythmia or Heart Block	Renal Failure		
□ Blood Pressure (hyper or hypotension)	□ Renal Insufficiency		
□ Chest pain, noncardiac	□ Respiratory complication, Other		
□ Congestive Heart Failure	□ Sepsis		
□ Coronary Artery/Graft Dysfunction	□ Stroke		
Depression/psychiatric issue	\Box TIA		
\Box DVT	□ Transfusion		
□ Electrolyte imbalance	□ Transplant Rejection		
□ Endocarditis	□ VAD Complication		
\Box Failure to thrive	□ Valve Dysfunction		
□ GI issue	□ Vascular Complication, acute		
□ Infection, Conduit Harvest Site	□ Wound , other (drainage, cellulitis,)		
□ Infection, Deep Sternum / Mediastinitis	□ Wound, Sternal dehiscence not related to infection		
□ Mental status changes	□ Other – Related Readmission		
□ Myocardial Infarction	Other – Nonrelated Readmission		
DPE	□ Other – Planned Readmission		
	□ Unknown		
Readmit Primary Procedure:			
□ No Procedure Performed	□ OR for Vascular Procedure		
□ Cath lab for Valve Intervention	□ OR for Aorta Intervention		
□ Cath lab for Coronary Intervention (PCI)	Pacemaker Insertion / AICD		
□ Dialysis	Pericardiotomy / Pericardiocentesis		
\Box OR for Bleeding	□ Planned noncardiac procedure		
□ OR for Coronary Artery Intervention	□ Thoracentesis/ Chest tube insertion		
□ OR for Sternal Debridement / Muscle Flap	□ Wound vac		
\Box OR for Valve Intervention	□ Other Procedure		
	Unknown		
If OR for Aorta intervention \rightarrow) Type: \Box Open \Box Endovascular			
Indication: Rupture Endol	eak 🗆 Infection 🗆 Dissection 🗆 Expansion 🗖 Loss of side branch patency		
□ Other			

Adult Cardiac Anesthesiology (for sites participating in the optional anesthesiology component)					
Organization participates in the Adult A				gy componenty	
Primary Anesthesiologist Name:		Prima	y Anesthesiologist N	ational Provider Numb	per:
Anesthesiology Care Team Model: Anesthesiologist working a Attending anesthesiologist Attending anesthesiologist Attending anesthesiologist	teaching/medically directi teaching/medically directi	ng house staff		esiologist medically direc	
□ Attending anesthesiologist medically directing AA Ratio: □ 1:1 □ 1:2. □ 1:3 □ 1:4. □ 1:5 □ N/A (If Attending anesthesiologist medically directing AA Ratio: □ 1:1 □ 1:2. □ 1:3 □ 1:4. □ 1:5 □ N/A				ting AA ↓)	
□ Surgeon medically directin □ CRNA practicing independ				2. 🗆 1.3 🗀 1.4. 🗀 1.3	
Pain Score Baseline: $\Box 0 \Box 1 \Box 2$				Recorded	
Pre Induction Systolic BP:			ion Diastolic BP:		
Pre Induction Heart Rate:		Pulmonary	Artery Catheter Use	ed: □Yes □No	
Algorithm used to Guide Transfusion: [∃Yes □No				
Anticoagulation Prior to CPB					
Heparin prior to CPB \Box Yes \Box No (If Yes \rightarrow)	Heparin Dose: units	Heparin Management:			d clotting time (ACT) concentration (Hepcon)
	Fresh Frozen Plasma pri	or to CPB \Box Yes			units
	Antithrombin III prior to	CBP 🗆 Yes 🗆 N	$0 \qquad (\text{If yes} \rightarrow)$	Total Dose:	International Unit/mL
Bivalirudin 🗆 Yes 🛛 No					
Argatroban □Yes □ No					
Viscoelastic Testing Used Intraop:	es 🗆 No				
Volatile Agent Used: Volatile Agent Volatile Agent Used: Volatile Agent Volatile A					
Volatile Agent(s)	used: 🗆 Isoflurane	Desflurane	□ Sevoflurane	□ Other	
(If Yes \rightarrow) (select all that ap					
Volatile Agent(s)	timing Pre CPB	□ During CPB	\Box Post CPB \Box M	Iaintenance (if no CPB	3)
(select all that ap					
Intraop Midazolam: Yes No (I	f Yes→) Dose	_mgs	Intraop Fentanyl	□ Yes □ No	(If Yes→)Dosemcgs
Intraop Sufentanil 🗆 Yes 🛛 No 🛛 🖾	f Yes→) Dose	_mcgs	Intraop Remifent	tanil□ Yes □ No	(If Yes \rightarrow) Dose mcgs
Multimodal Analgesics (OR Entry to 2	4h post OR Exit) □ Yes □ (If Yes, select all that ap	ply→) □ Acetam	ne (IV)		Lidocaine Infusion (not bolus) -steroidal anti-inflammatory (PO)
	ladder □ Rectal asopharyngeal □ CPB v	venous return	Oxygenator arterial o blood (CPB Arterial Other Unknown	-	Aax during rewarming:°C
Crystalloid given by Anesthesia \Box Yes \Box No Anesth. Total Crystalloid:mL (If Yes \rightarrow) \Box Yes \Box No \Box No					
	Туре:□ (0.9 Sodium Chlor	ide 🛛 Normosol 🗆 F	Ringer's Lactate 🗆 Pla	asmalyte
Was 5% Albumin given by Anesthesia	□ Yes □ No (If Ye	$s \rightarrow$)	Anesthesiology	Total 5% Albumin	mL

Was 25% Albumin gi	ive by Anesthesia	\Box No (If Yes \rightarrow	·)	Anesthesiology	Total 25% Albumin	mL		
Autologous Normovolemic Hemodilution (ANH)	□ Yes □ No (If Yes -	>) ANH Volum	e:r	nL				
Intraop Inhaled Vasoo	dilator: 🗆 Yes 🗆 No	Intraop IV V	asodilators Used: 🗆	Yes 🗆 No				
Intraop Glucose Trou	gh: □ Yes □ No (If Yes \rightarrow)		mg/dL					
Intraop Insulin Given	$\square Yes \square No (If Yes \rightarrow)$	Intraop Insul	in Total Dose	units				
Intraoperative Proces	sed EEG (BIS): Yes N	0						
Intraop Post-Induction	n/Pre-Incision Transesophage	al Echo (TEE): □] Yes 🛛 No					
(If-Post-Induction/Pre- Incision TEE is Yes→)	LVEF Measured or Estimate	d: 🗆 Yes 🗆 No	D (If Yes \rightarrow) LVE	F:	%			
	Left Atrial Size 🗆 Yes 🗆 N	Left Atrial Superio	or-Inferior	_cm				
			Left Atrial Medial	Lateral	cm			
	RV Function:	□ Normal □ Mild Dysfun		erate Dysfunction re Dysfunction	□ Not Assessed			
	Mitral Regurgitation:	□ None □ Trace/trivial		te Dystunetion				
		□ Mild						
		□ Moderate □ Severe						
	Patent Foramen Ovale:	□ Not assessed □ Yes □ No						
	Ascending Aorta Assessed Yes No							
		Maximal Ascen	ding Aorta Diamete	r:	cm			
	(If Yes→)	Maximal Ascending Aorta Atheroma Thickness:mm						
		Ascending Aorta Atheroma Mobility:						
	Aortic Arch Visualized: Yes No							
		Maximal Aortic	Arch Atheroma Th	ickness:	mm			
	(If Yes→)	Aortic Arch At	heroma Mobility:					
Cardionulmonomy Dur	pass Used: □ Yes □ No		-	I	□ Yes □ No			
(If CPB	ABG Management during co	oling 🗆 Alpha	a-Stat 🗆 pH-St	at 🗖 🛙	Inknown			
(II CFB Use is Yes→)	ABG Management during C				Jnknown			
	rewarming		-stat 🗆 pri-st	ai LU	IIKIIOWII			
	Arterial Outflow Temperature Measured \Box Yes \Box No (If Yes \rightarrow) Highest Arterial Outflow Temperature:°C							
	Retrograde Autologous Priming of CPB Circuit: Yes No							
	Total Crystalloid Administered by Perfusion Team:mL							
	(If mL >0 select all that apply)							
	Total 5% Albumin Administ	ered by Perfusior	n Team:	mL				
	Total 25% Albumin Administered by Perfusion Team:mL							
	Hemofiltration Volume Removed by Perfusion Team:mL							

	Inotropes used to wean from CPB: Yes No					
	Vasopressors used to wean from CPB: Ves No					
Cell Saver Volume:	mL Protamine Total Dose :mgs					
Post-Procedure Use Of	Intraoperative TEE: Yes No					
(If Post Proc	Systolic Anterior Motion of Mitral Valve: Yes No Not assessed					
TEE is Yes→)	Return to CPB for Echo Related Diagnosis:					
	(If Yes →) Reason for return to CPB: □ New Wall Motion Abnormality □ Residual Valvular Leak □ Systolic Anterior Motion (SAM) □ Paravalvular Leak □ Ventricular Failure □ Other □ Unknown					
	(If Ventricular Failure →) □ Left Ventricular Failure □ Right Ventricular Failure □ Bi-Ventricular Failure □ Unknown					
	Post-Procedure LVEF Measured: \Box Yes \Box No(If Yes \rightarrow)Post-Procedure LVEF:%					
	Post-Procedure RV Function: Normal Moderate Dysfunction Not Assessed Mild Dysfunction Severe Dysfunction 					
Patient Died in the OR	: 🗆 Yes 🗆 No					
(If Died in OR is $No \rightarrow$)	Core Temp Measured upon Entry to ICU/PACU: Ves No					
15 INU→)	(If Yes \rightarrow) 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 admission to post op care location (PACU, ICU):					
	$(\text{If Yes}) \text{WBC}: ____/\mu\text{L}$					
	Platelets Measured upon admission to post op care location (PACU, ICU):					
	(If Yes \rightarrow) Platelet Count:/ μL					
	Hemoglobin Measured upon admission to post op care location (PACU, ICU):					
	(If Yes \rightarrow) Hemoglobin:/gm/dL					
	Hematocrit Measured upon admission to post op care location (PACU, ICU):					
	(If Yes \rightarrow) Hematocrit:%					
	Fibrinogen Measured upon admission to post op care location (PACU, ICU): □ Yes □ No (If Yes→) Fibrinogenmg/dL					
	Lactate Measured upon admission to post op care location (PACU, ICU):					
	$(If Yes \rightarrow) Lactate: \underline{\qquad mg/dL}$					
	Peak Glucose between within 18-24 hours after OR Exit Time:					
	Post Op Propofol: 🗆 Yes 🗆 No					
	Post Op Other Sedation: Ves No					
	Post Op Delirium: Ves No					
	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 □ 5 □ 6 □ 7 □ 8 □ 9 □ 10 □ Not recorded □ NA					