

The Society of Thoracic Surgeons Adult Cardiac Surgery Database

Data Collection Form Version 2.81

April 23, 2015

A A 7 • • 4 4•			
A. Administrative	D 1 ID. / 0	. 10	CTC C I : 1.
Participant ID:	Record ID: (software gene	erated)	STS Cost Link:
Patient ID: (software generated)			
Patient participating in STS-related clinical trial:			
□ None □ Trial 1 □ Trial 2 □ Trial 3	□ Trial 4 □ Trial 5 □	Trial 6 (If not "None" →)	Clinical trial patient ID:
- None - That I - That Z - That J	- Inar Inar 5	That o (if not frome ')	Chinear trial patient 1D.
D. Domographics			
B. Demographics Patient Last Name:	Patient First Name:	Datient	Middle Name:
Date of Birth: / / (mm/dd/yyyy)	Patient Age:	raticiit	Sex: Male Female
Social Security Number:	1 attent rige.	Medical Record Number:	Sex. Wate Pelliate
Street Address:		City:	
Region:	ZIP Coo		Country:
Is This Patient's Permanent Address: ☐ Yes ☐ No ☐		10.	Country.
Is the Patient's Race Documented? ☐ Yes ☐ No ☐ Pt			
(If Yes \rightarrow) Race: (Select all that apply \rightarrow) White:		s □ No Am In	dian/Alaskan:
			iian/Pacific Islander:
Asian:		$s \square No$ Other:	
Hispanic, Latino or Spanish Ethnicity:	No □ Not Documented		
1 2 1			
C. Hospitalization			
	t Missing →)	Hospital ZIP Code:	Hospital Region:
Hospital National Provider Identifier:	,	1	, ,
Payor – (Select all that apply↓)			
Government Health Insurance: ☐ Yes ☐ No (If Ye	s, select all that apply \(\)		
Medicare: \square Yes \square No (If Yes \rightarrow)	Medicare Fee For Ser	vice: Yes No	
Medicaid: ☐ Yes ☐ No	Military Health Care:	□ Yes □ No	State-Specific Plan: ☐ Yes ☐ No
Indian Health Service: ☐ Yes ☐ No	Correctional Facility:		Other Gov't. Plan: ☐ Yes ☐ No
Commercial Health Insurance: ☐ Yes ☐ No	Hoolth Moints	enance Organization:	Yes □ No
Commercial ricatul historalice.	ricattii iviaiiite	mance Organization.	ies 🗆 No
Non-U.S. Insurance: ☐ Yes ☐ No	None / Self:	□ Yes □ No	
	Date of Surgery:/		ate of Discharge://
(mm/dd/yyyy) (r	mm/dd/yyyy)	(m	m/dd/yyyy)
11.76			
Admit Source: ☐ Elective Admission ☐ Emer		ansfer in from another hosp	
	(If Iransfer →) Otner Hospital Performs	Cardiac Surgery □ Yes □ No
D. Risk Factors "Unknown" should only be selected if	Dationt / Family unable to pro-	vida history	
Height (cm):	ration / raining unable to pro-	Weight (kg):	
Family History of Premature Coronary Artery Diseas	e: □Yes □No □Unkı		
Diabetes: ☐ Yes ☐ No ☐ Unknown (If Yes →) Diabetes:			sulin □ Other subq □ Other □ Unknown
Dyslipidemia: ☐ Yes ☐ No ☐ Unknown	Dialysis: ☐ Yes ☐ No ☐		Hypertension: \square Yes \square No \square Unknown
Endocarditis: ☐ Yes ☐ No (If Yes→) Endocarditis T			
	l Culture negative ☐ Stap		☐ Coagulase negative staph
	l Enterococcus species 🗆 I		□Unknown
Tobacco use: ☐ Never smoker		☐ Smoker, current st	atus (frequency) unknown
☐ Current every day sn		☐ Former smoker	
☐ Current some day sm		☐ Smoking status un	
Lung Disease: ☐ No ☐ Mild ☐ Moderate ☐ Se			
(If Mild, Moderate or Severe→) Type:	☐ Obstructive ☐ React	ive 🗆 Interstitial Fibrosis	☐ Other ☐ Multiple ☐ Not Documented
Pulmonary Function Test Done: ☐ Yes ☐ No			
(If Yes →) FEV1 % Predicted:	DLCO Test Perfo	ormed:	Ves →) DLCO % Predicted:
Room Air ABG Performed: \square Yes \square No (If Yes -		Dioxide Level:	Oxygen Level :

Home Oxyg	en: ☐ Yes, PRN ☐ Yes, oxygen dependent ☐ No [□ Unknown		Inhaled Medication ☐ Yes ☐ No ☐		odilator Therapy	y:
Sleep Appea	leep Apnea: ☐ Yes ☐ No ☐ Unknown Pneumonia: ☐ Recent ☐ Remote ☐ No ☐ Unknown						
	Use: ☐ Recent ☐ Remote ☐ No ☐ Unknown				Yes □ No □		
	$= 1 \frac{1}{2} = 1 \frac{1}{2} \frac{1}{2} \frac{1}{2} = 1 \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} = 1 \frac{1}{2} \frac{1}$	nks/week [□ No	ne 🗆 Unknown			
Liver Diseas	se: 🗆 Yes 🗆 No 🗀 Unknown			ompromise Present:	☐ Yes ☐ No	□ Unknown	
Mediastinal	Radiation: ☐ Yes ☐ No ☐ Unknown	Cano	er W	ithin 5 Years: 🗆 Ye	es 🗆 No 🗆 Ur	ıknown	
Peripheral A	artery Disease: Yes No Unknown			Thoracic Aorta	Disease: 🗆 Yes	s □ No □ Un	known
	l Yes □ No □ Unknown			Unresponsive S	tate: □ Yes □	No ☐ Unknow	/n
	eular Disease: ☐ Yes ☐ No ☐ Unknown				_		
(If Yes→)		→) P	rior (CVA-When: □ <=	30 days $\square > 30$	0 days	
	CVD TIA: ☐ Yes ☐ No ☐ Unknown						
		□ Both □					
	(If "Right" or "Both" →) Severity of stend	osis on the ri	ght ca	arotid artery: \square 50-	$79\% \Box \ 80 - 99$	9% □ 100% □	☐ Not documented
	(If "Left" or "Both" →) Severity of stend				/9% ⊔ 80 – 99	% ⊔ 100% L	☐ Not documented
F.,4.,	History of previous carotid artery surgery and/or				O1:4 D		
	able lab results below. Not all tests are expected of	r appropriat	te for	an patients. Data	Quality Repo	rt will only fla	g missing
	or if both Hemoglobin & Hematocrit are missing		11		D1.4.1.4.C	Y4	
WBC Count				natocrit:	Platelet C		
Last Creatin				al Bilirubin:	A1c Leve		~
	dies		INF		MELD S	core:(S	ystem Calculation)
BNP	NTproBNP hsTNT	- 45 4	hsC		GDF-15		
Five Meter	Walk Test Done: \square Yes \square No \square Non-ambulatory position (If Yes \rightarrow) Time 1: (seconds			Time 2:	(seconds)	Time 3:	(seconds)
	(ii i cs) Time i (seconds)		1 IIIIe 2.	(seconds)	1 IIIIE 3 .	(Secolius)
	s Cardiac Interventions						
	rdiac Interventions:						
$(If Yes \rightarrow)$	Previous coronary artery bypass (CAB):					- I	
	Previous valve procedure: Yes No If PrValve		least o		-		1 "5
	No. 445Complete annual motor	#1	_	#2	#3	#4	#5
	No additional valve procedure(s)						
	Aortic valve balloon valvotomy/valvuloplasty Aortic valve repair, surgical						
	Aortic valve replacement, surgical						
	Aortic valve replacement, transcatheter						
	Mitral valve balloon valvotomy/valvuloplasty						
	Mitral valve commissurotomy, surgical						
	Mitral valve repair, percutaneous						
	Mitral valve repair, surgical						
	Mitral valve replacement, surgical						
	Mitral valve replacement, transcatheter						
	Tricuspid valve balloon valvotomy/valvuloplasty						
	Tricuspid valve repair, percutaneous						
	Tricuspid valve repair, surgical						
	Tricuspid valve replacement, surgical						
	Tricuspid valve replacement, transcatheter						
	Tricuspid valvectomy						
	Pulmonary valve balloon valvotomy/valvuloplasty						
	Pulmonary valve repair, surgical						
	Pulmonary valve replacement, surgical						
	Pulmonary valve replacement, transcatheter						
	Pulmonary valvectomy						
	Other valve procedure						
	Previous PCI: ☐ Yes ☐ No (If Yes →) PCI Performed Within This Episode Of Indication for Surgery: ☐ PCI Con		s, at t			acute care facilit	
	□ PCI Faile □ PCI for S	ure with Clin STEMI, mult	ivess	Deterioration	PCI/Surgery S Other	Staged (not STE	MI)
	PCI Stent: \square Yes \square No (If Yes \rightarrow) S PCI Interval: $\square \le 6$ Hours $\square \ge$		⊒ Bar	e metal 🗆 Drug-el	uting Biores	orbable □Mult	iple □Unknown

No additional in												
Ablation, cathete	r, atrial fibrillation	l										
Ablation, cathete	r, other or unknow	'n										
Ablation, cathete												
	l, atrial fibrillation											
	l, other or unknow											
Aneurysmectomy		11	- -									
Aortic procedure												
Aortic procedure												
Aortic procedure	Aortic procedure, descending											
Aortic procedure	root											
	thoracoabdomina	1										
Aortic Procedure												
		_										
	dure, valve sparing											
	obliteration, Left,											
	obliteration, Left,		r									
Atrial appendage	obliteration, Right	t, surgical										
Atrial appendage	obliteration, Right	t. transcathet	er									
Cardiac Tumor	, , ,	.,										
Cardioversion(s)												
	1 1 1 C											
	trial septal defect	<u> </u>										
	entricular septal de	efect										
Congenital cardia												
Implantable Card	ioverter Defibrilla	tor (ICD) wit	th or									
without pacer		, ,										
Pacemaker												
Pericardiectomy												
	1 4											
Pulmonary throm												
Total Artificial H												
	Laser Revasculari	zation (TMR	.)									
Transplant heart	& lung											
Transplant, heart												
Transplant, lung(
	Ventricular Assist Device (VAD), BiVAD											
Ventricular Assis	Ventricular Assist Device (VAD), BIVAD											
	Ventricular Assist Device (VAD), left											
	t Device (VAD), r											
Other Cardiac Int	ervention (not liste	ed)										
·						•	•		,			
7 D (* C 1* 6	14 4											
F. Preoperative Cardiac S												
Prior Myocardial Infarction:												
	MI Whe	en: □ <=6 H	rs. $\square > 6$ H	Irs. but <24	Hrs. □	l 1 to 7 Days	□ 8 to 21	Days	□ >21	Days		
Cardiac Presentation/Symptom	s: (Choose one from	the list below	for each colu	mn√)								
* *			At time of		sion.				At ti	me of sur	gerv.	
N. C			710 01110 01	tins admin	51011.				7 10 01	ine or sur	501).	
No Symptoms			 									
Stable Angina												
Unstable Angina												
Non-ST Elevation MI (Non-STEMI)	· · · · · · · · · · · · · · · · · · ·				· · · · · · · · · · · · · · · · · · ·						
ST Elevation MI (STE	MI)											
Angina Equivalent	,		1						1			
Other												
	1 5 666	CI 0 0 0	700.01 1	— 000 0		1 000 01	ш 🗖 сес	C1 T3	7			
Anginal Classification Within 2												
Heart Failure Within 2 weeks:			$(If Yes \rightarrow) C$	Iassificatio	n-NYHA	: ⊔ Class I	⊔ Class II	⊔ Class	s III 🗀	I Class IV	,	
Prior Heart failure: 🗆 Yes 🗆	No □ Unknown											
Cardiogenic Shock : Yes, at	the time of the pro	ocedure \square	Yes, not at tl	he time of	the proced	dure but with	in prior 24 h	ours [□No			
Resuscitation: Yes - Within							an 24 hours o		rt of th	e procedu	ire □ N	О
					1 1100					- F-Decad		
Arrhythmia: ☐ Yes ☐ No ☐												
$(\text{If Yes} \rightarrow)$	(Choose one respon					T =:						
	VTach/VFib	Sick Sinus	Syndrome	AFlutter		Second De	gree Heart B	lock	Third I	Degree He	art Blocl	K
None				1								
Remote (> 30 days preop)	'											
Recent (<= 30 days preop)												-
recent (50 days preop)	<u> </u>	1		1		<u>I</u>						
(ICV)												
	Damman au 41 D.	ad Dh-4l	UV.	I NIo								
$(\text{If Yes} \rightarrow)$	Permanently Pac] No	anti	/Dorgint						
$(\text{II Yes} \rightarrow)$	Atrial Fibrillation		□ Paroxys	smal 🗆 C								

Other Previous Cardiac Interventions:

Yes No (If Yes, Enter at least one previous other cardiac procedure and up to 7 1)

#1

#2

#3

#4

#7

#6

G. Preoperative Medica								
Medication	Timefram	1e		Administrat				
ACE or ARB	Within 48 hours		☐ Yes ☐ No ☐ (Contraindicated ☐ Unknown				
ADP Inhibitor	Within 5 days			Contraindicated Unknown ibitors Discontinuation:	(# days prior to surgery)			
Amiodarone	Prior to surgery			herapy Yes, therapy started this admission				
Anticoagulants	Within 48 hours		☐ Yes ☐ No (If Y	$Yes \rightarrow)$ Medication: $\square H$	eparin (Unfractionated) eparin (Low Molecular)			
A (1.4.1.4.	Widin 5 days			0				
Antiplatelets	Within 5 days		☐ Yes ☐ No ☐ Contraindicated ☐ Unknown					
Aspirin Beta Blocker*	Within 5 days Within 24 hours		☐ Yes ☐ No ☐ Contraindicated ☐ Unknown ☐ Yes ☐ No ☐ Contraindicated*					
Beta Blocker	On the rapy for ≥ 2 we	eeks prior		Contraindicated Unknown	1			
Calcium Channel Blocker	to surgery On therapy for ≥ 2 we	-						
Calcium Channel Blocker	to surgery	eeks prior						
Coumadin	Within 24 hours		☐ Yes ☐ No ☐					
Factor Xa inhibitors	Within 24 hours		☐ Yes ☐ No ☐					
Glycoprotein IIb/IIIa	Within 24 hours		☐ Yes ☐ No ☐ 1					
			(If Yes→)Medication ☐ Tirofiban (Aggregation)	on Name: □ Abciximab (Ro rastat) □ Other	eoPro)			
Inotropic, intravenous	Within 48 hours		☐ Yes ☐ No					
Lipid lowering	Within 24 hours			Contraindicated Unknown	n statin □ Other □ Combination			
Long-acting Nitrate	On therapy for ≥ 2 we to surgery	eeks prior		Contraindicated ☐ Unknown				
Nitrates, intravenous	Within 24 hours		☐ Yes ☐ No					
Other Antianginal Medication	On the apy for ≥ 2 we	eeks prior		Contraindicated Unknown				
Steroids	to surgery Within 24 hours			Contraindicated Unknow				
Thrombin Inhibitors	Within 24 hours			Contraindicated Unknow				
Thrombolytics	Within 48 hours		☐ Yes ☐ No	Contramdicated 🗀 Olikilow	VII			
	composite score for CABG							
1101 1/10050/10 00000000 00	composite score for CIBO							
II Hamadanamias/Catl	h/E ah a							
H. Hemodynamics/Cat	formed: \(\square\) Yes \(\square\) No (If Yes)		Cardiac Catheterization Dat	a: / /			
	known:			Cardiac Catheterization Dat	c/			
	Dominance: Source(s) used to	quantify ster	enosis : \square Left \square Right \square Co-dominant \square Not Documented \square Angiogram \square CT \square IVUS \square Progress/OP Note \square Oth					
	Number Diseased	d Vessels :	□ Multiple □ None □ One □ Two □ Three					
(If one, two or three vessel dise			tation on at 1 1	1				
	" response below must have		iation on at least o		Enathand El. D			
Coronary (Last known value pre-op)	Native Artery % Stenosis Known:	Graft(s) Graft(s) Pr	ecent:	Stent(s) Stent(s) Present:	Fractional Flow Reserve (FFR)			
(East known value pre op)	☐ Yes ☐ No (If yes ↓)		No (If yes↓)	\square Yes \square No (If yes \checkmark)	FFR Performed:			
	= 100 = 110 (ii yes v)	_ 105 _	(11) (25)	_ 100 _ 110 (ii yes v)	□Yes □No (If yes↓)			
		☐ Patent		☐ Patent				
Left Main	%	☐ Stenosis		☐ Stenosis >=50%				
		□ 100% o		☐ Not Documented				
		□ Not Doc	cumented	□ D.44				
	9/0	☐ Patent☐ Stenosis	-500/	☐ Patent☐ Stenosis >=50%				
Proximal LAD		☐ 100% oc		□ Not Documented				
		□ Not Doc		_ 110t Documented				
		☐ Patent		☐ Patent				
Midian	%	☐ Stenosis	s >= 50%	☐ Stenosis >=50%				
Mid LAD		□ 100% o		☐ Not Documented				
		□ Not Doc	cumented					
		□ Patent		Patent				
DI (II) D	%	☐ Stenosis		☐ Stenosis >=50%				
Distal LAD		☐ 100% od ☐ Not Dod		☐ Not Documented				
		□ Not D00	Jumenteu					

Obtuse Marginal2	%	☐ Stenosis >=50% ☐ 100% occlusion	☐ Stenosis >=50% ☐ Not Documented	
_		☐ Not Documented		
Obtuse Marginal3	%	☐ Patent ☐ Stenosis >=50%	☐ Patent ☐ Stenosis >=50%	
Obtuse Warginais		☐ 100% occlusion ☐ Not Documented	☐ Not Documented	
	%	☐ Patent ☐ Stenosis >=50%	☐ Patent ☐ Stenosis >=50%	
Ramus	^	□ 100% occlusion □ Not Documented	□ Not Documented	
	%	☐ Patent ☐ Stenosis >=50%	☐ Patent ☐ Stenosis >=50%	
RCA		☐ 100% occlusion ☐ Not Documented	□ Not Documented	
	%	☐ Patent ☐ Stenosis >=50%	☐ Patent ☐ Stenosis >=50%	
Acute Marginal (AM)		☐ 100% occlusion ☐ Not Documented	☐ Not Documented	
	0/	☐ Patent ☐ Stenosis >=50%	☐ Patent ☐ Stenosis >=50%	
D			☐ Not Documented	
Posterior Descending (PDA)	%	□ 100% occlusion	_ 1100 2 0000000000	
		☐ Not Documented ☐ Patent	☐ Patent	
	%	☐ Not Documented ☐ Patent ☐ Stenosis >=50% ☐ 100% occlusion		
(PDA) Posterolateral (PLB)	%	 □ Not Documented □ Patent □ Stenosis >=50% □ 100% occlusion □ Not Documented 	☐ Patent☐ Stenosis >=50%	
(PDA) Posterolateral (PLB)	% Yes □ No (If Yes→) Synta	 □ Not Documented □ Patent □ Stenosis >=50% □ 100% occlusion □ Not Documented 	☐ Patent☐ Stenosis >=50%	
Posterolateral (PLB) Syntax Score Known: Stress Test: Yes No	Yes □ No (If Yes→) Synta (If Yes↓) esult: □ Normal □ Abnor	□ Not Documented □ Patent □ Stenosis >= 50% □ 100% occlusion □ Not Documented x Score: mal □ Unavailable	☐ Patent ☐ Stenosis >=50% ☐ Not Documented	nle
Posterolateral (PLB) Syntax Score Known: Stress Test: Yes No R R R Ejection Fraction Done:	Yes □ No (If Yes→) Synta O (If Yes↓) esult: □ Normal □ Abnor isk/Extent of ischemia: □ Lo Yes □ No (If Yes→)	□ Not Documented □ Patent □ Stenosis >= 50% □ 100% occlusion □ Not Documented x Score: mal □ Unavailable	☐ Patent ☐ Stenosis >=50% ☐ Not Documented ☐ High Risk ☐ Unavailal	
Posterolateral (PLB) Syntax Score Known: Stress Test: Yes No R R Ejection Fraction Done: Dimensions Available: Yes	Yes □ No (If Yes→) Synta O (If Yes↓) esult: □ Normal □ Abnor isk/Extent of ischemia: □ Lo Yes □ No (If Yes→)	□ Not Documented □ Patent □ Stenosis >= 50% □ 100% occlusion □ Not Documented x Score: mal □ Unavailable ow Risk □ Intermediate Risk Ejection Fract	☐ Patent ☐ Stenosis >=50% ☐ Not Documented ☐ High Risk ☐ Unavailal	
Posterolateral (PLB) Syntax Score Known: Stress Test: Yes No R R Ejection Fraction Done: Dimensions Available: Yes	Yes □ No (If Yes→) Synta O (If Yes ↓) esult: □ Normal □ Abnor isk/Extent of ischemia: □ Lo Yes □ No (If Yes→) Yes □ No (If Yes→) Cond-Systolic Dimension:	□ Not Documented □ Patent □ Stenosis >=50% □ 100% occlusion □ Not Documented x Score: mal □ Unavailable ow Risk □ Intermediate Risk Ejection Fract (mm) LV End-Diast	Patent Stenosis >= 50% Not Documented High Risk Unavailal tion: (%)	
Posterolateral (PLB) Syntax Score Known: Stress Test: Yes No R R R Ejection Fraction Done: Yes Dimensions Available: Yes LV E	Yes □ No (If Yes→) Synta O (If Yes ↓) esult: □ Normal □ Abnor isk/Extent of ischemia: □ Lo Yes □ No (If Yes→) Yes □ No (If Yes→) Cond-Systolic Dimension:	□ Not Documented □ Patent □ Stenosis >= 50% □ 100% occlusion □ Not Documented x Score: □ □ Unavailable ow Risk □ Intermediate Risk □ Ejection Fract (mm) LV End-Diast	Patent Stenosis >= 50% Not Documented High Risk Unavailal tion: (%)	
Posterolateral (PLB) Syntax Score Known: Stress Test: Yes No R R R Ejection Fraction Done: Yes Dimensions Available: Yes LV E	Yes □ No (If Yes→) Synta O (If Yes ↓) esult: □ Normal □ Abnor isk/Extent of ischemia: □ Lo Yes □ No (If Yes→) Yes □ No (If Yes→) Cond-Systolic Dimension:	□ Not Documented □ Patent □ Stenosis >= 50% □ 100% occlusion □ Not Documented x Score: □ □ Unavailable ow Risk □ Intermediate Risk □ Ejection Fract (mm) LV End-Diast	Patent Stenosis >= 50% Not Documented High Risk Unavailal tion: (%)	
Posterolateral (PLB) Syntax Score Known: Stress Test: Yes No R R R Ejection Fraction Done: Yes Dimensions Available: Yes LV E	Yes □ No (If Yes→) Synta O (If Yes ↓) esult: □ Normal □ Abnor isk/Extent of ischemia: □ Lo Yes □ No (If Yes→) Yes □ No (If Yes→) Cond-Systolic Dimension:	□ Not Documented □ Patent □ Stenosis >= 50% □ 100% occlusion □ Not Documented x Score: □ □ Unavailable ow Risk □ Intermediate Risk □ Ejection Fract (mm) LV End-Diast	Patent Stenosis >= 50% Not Documented High Risk Unavailal tion: (%)	
Posterolateral (PLB) Syntax Score Known: Stress Test: Yes No R R R Ejection Fraction Done: Yes Dimensions Available: Yes LV E	Yes □ No (If Yes→) Synta O (If Yes ↓) esult: □ Normal □ Abnor isk/Extent of ischemia: □ Lo Yes □ No (If Yes→) Yes □ No (If Yes→) Cond-Systolic Dimension:	□ Not Documented □ Patent □ Stenosis >= 50% □ 100% occlusion □ Not Documented x Score: □ □ Unavailable ow Risk □ Intermediate Risk □ Ejection Fract (mm) LV End-Diast	Patent Stenosis >= 50% Not Documented High Risk Unavailal tion: (%)	
Posterolateral (PLB) Syntax Score Known: Stress Test: Yes No R R R Ejection Fraction Done: Yes Dimensions Available: Yes LV E	Yes □ No (If Yes→) Synta O (If Yes ↓) esult: □ Normal □ Abnor isk/Extent of ischemia: □ Lo Yes □ No (If Yes→) Yes □ No (If Yes→) Cond-Systolic Dimension:	□ Not Documented □ Patent □ Stenosis >= 50% □ 100% occlusion □ Not Documented x Score: □ □ Unavailable ow Risk □ Intermediate Risk □ Ejection Fract (mm) LV End-Diast	Patent Stenosis >= 50% Not Documented High Risk Unavailal tion: (%)	
Posterolateral (PLB) Syntax Score Known: Stress Test: Yes No R R R Ejection Fraction Done: Yes Dimensions Available: Yes LV E	Yes □ No (If Yes→) Synta O (If Yes ↓) esult: □ Normal □ Abnor isk/Extent of ischemia: □ Lo Yes □ No (If Yes→) Yes □ No (If Yes→) Cond-Systolic Dimension:	□ Not Documented □ Patent □ Stenosis >= 50% □ 100% occlusion □ Not Documented x Score: □ □ Unavailable ow Risk □ Intermediate Risk □ Ejection Fract (mm) LV End-Diast	Patent Stenosis >= 50% Not Documented High Risk Unavailal tion: (%)	
Posterolateral (PLB) Syntax Score Known: Stress Test: Yes No R R R Ejection Fraction Done: Yes Dimensions Available: Yes LV E	Yes □ No (If Yes→) Synta O (If Yes ↓) esult: □ Normal □ Abnor isk/Extent of ischemia: □ Lo Yes □ No (If Yes→) Yes □ No (If Yes→) Cond-Systolic Dimension:	□ Not Documented □ Patent □ Stenosis >= 50% □ 100% occlusion □ Not Documented x Score: □ □ Unavailable ow Risk □ Intermediate Risk □ Ejection Fract (mm) LV End-Diast	Patent Stenosis >= 50% Not Documented High Risk Unavailal tion: (%)	
Posterolateral (PLB) Syntax Score Known: Stress Test: Yes No R R R Ejection Fraction Done: Yes Dimensions Available: Yes LV E	Yes □ No (If Yes→) Synta O (If Yes ↓) esult: □ Normal □ Abnor isk/Extent of ischemia: □ Lo Yes □ No (If Yes→) Yes □ No (If Yes→) Cond-Systolic Dimension:	□ Not Documented □ Patent □ Stenosis >= 50% □ 100% occlusion □ Not Documented x Score: □ □ Unavailable ow Risk □ Intermediate Risk □ Ejection Fract (mm) LV End-Diast	Patent Stenosis >= 50% Not Documented High Risk Unavailal (%) tolic Dimension: (mr	

Etiology: (Choose at least one and up to 5 etiologies) Unknown No additional etiology Bicuspid valve disease Congenital (other than bicuspid) Degenerative- Calcified Degenerative- Leaflet prolapse with or without annular dilation Degenerative- Pure annular dilation without leaflet prolapse Endocarditis with root abscess Endocarditis without root abscess LV Outflow Tract Pathology, HOCM LV Outflow Tract Pathology, Sub-aortic membrane LV Outflow Tract Pathology, Sub-aortic Tunnel LV Outflow Tract Pathology, Other Primary Aortic Disease, Aortic Dissection Primary Aortic Disease, Atherosclerotic Aneurysm Primary Aortic Disease, Ehler-Danlos Syndrome Primary Aortic Disease, Hypertensive Aneurysm Primary Aortic Disease, Inflammatory Primary Aortic Disease, Loeys-Dietz Syndrome	Highest M #1	lean Grad	#2	mmHg #3	#4		#5
Unknown No additional etiology Bicuspid valve disease Congenital (other than bicuspid) Degenerative- Calcified Degenerative- Leaflet prolapse with or without annular dilation Degenerative- Pure annular dilation without leaflet prolapse Endocarditis with root abscess Endocarditis without root abscess LV Outflow Tract Pathology, HOCM LV Outflow Tract Pathology, Sub-aortic membrane LV Outflow Tract Pathology, Sub-aortic Tunnel LV Outflow Tract Pathology, Other Primary Aortic Disease, Aortic Dissection Primary Aortic Disease, Atherosclerotic Aneurysm Primary Aortic Disease, Ehler-Danlos Syndrome Primary Aortic Disease, Hypertensive Aneurysm Primary Aortic Disease, Idiopathic Root Dilation Primary Aortic Disease, Inflammatory Primary Aortic Disease, Loeys-Dietz Syndrome	71		#2	#3	77-4		#3
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Primary Aortic Disease, Idiopathic Root Dilation Primary Aortic Disease, Inflammatory Primary Aortic Disease, Loeys-Dietz Syndrome							
Primary Aortic Disease, Inflammatory Primary Aortic Disease, Loeys-Dietz Syndrome							
Primary Aortic Disease, Loeys-Dietz Syndrome							
Primary Aortic Disease, Marfan Syndrome							
Primary Aortic Disease, Other Connective tissue disorder							
Prior Aortic Intervention, Etiology Unknown							
Rheumatic							
Supravalvular Aortic Stenosis							
Trauma							
Tumor, Carcinoid							
Tumor, Myxoma							
Tumor, Papillary Fibroelastoma							
Tumor, Other							
Other							
itral Valve	I	l l	I			i_	
tral Insufficiency: None Trivial/Trace Mild Moderate Seve	ere 🗆 Not	Docume	ented				
tral Valve Disease: Yes No							
Yes→) Mitral Stenosis: ☐ Yes ☐ No (If Yes→) Hemodynamic/ Ecl	ho data ava	ailable: [□ Yes □ No	(If Yes ↓)			
•				e Area:	cm ²		
		Н	lighest Mean	Gradient:	mn	nHg	
Yes→) Carpentier Mitral leaflet motion classification: □ Type	е Г □ Туре	e II 🔲	Type IIIa	□ Type IIIb □	Not Do	cumente	ed .
Yes↓)	1			1 "0	-		
MV Disease Etiology: (Choose at least one and up to 3 etiologies √)			#1	#2			#3
Unknown							
No additional etiology							
Degenerative							
Rheumatic							
Ischemic- acute, post infarction							
Ischemic- chronic							
Non-ischemic Cardiomyopathy							
Endocarditis							
Hypertrophic Obstructive Cardiomyopathy (HOCM)							
Tumor, Carcinoid							
Tumor, Myxoma							
Tumor, Papillary fibroelastoma							
Tumor, Other							
Carcinoid							
Trauma			<u></u>				
Congenital							
Prior Mitral Valve Intervention, Etiology Unknown							
Other							

MV Lesion(s):(Choose at least one and up to 3 lesions \downarrow)		#1	#2	#3
Unknown				
No additional lesions				
Leaflet prolapse, posterior				
Leaflet prolapse, bileaflet				
1 1 /				
Leaflet prolapse, anterior				
Elongated/ruptured chord(s)				1
Annular dilation				
Leaflet calcification				
Mitral annular calcification				
Papillary muscle elongation				1
Papillary muscle rupture				
Leaflet thickening/retraction				
Chordal tethering				
Chordal thickening/retraction/fusion				
Commissural fusion				1
Other				
Tricuspid Valve				
Tricuspid Insufficiency: ☐ None ☐ Trivial/Trace ☐ Mild ☐ Modera Tricuspid Valve Disease: ☐ Yes ☐ No (If Yes→) Tricuspid Stenosis: ☐ Yes ☐ No (If Yes→) Tricuspid Annular Echo Measurement Available: ☐ Yes ☐ Tricuspid Annular Echo Measurement Available: ☐ Tr		Not Documented Tricuspid Annulus S	iize: cm	
(If Yes↓)		1 114	110	T
TV Etiology: (Choose at least one and up to 3 etiologies ↓)		#1	#2	#3
Unknown				
No additional etiology				
Functional				
* * * * * * * * * * * * * * * * * * * *				
Endocarditis				
Carcinoid				
Congenital				
Degenerative				
		+		+
Pacing wire/catheter induced dysfunction				
Rheumatic				
Tumor				
Trauma				
				+
Prior TV intervention, Etiology Unknown				
Other				
Pulmonic Valve Pulmonic Insufficiency: □ None □ Trivial/Trace □ Mild □ Moderate Pulmonic Valve Disease: □ Yes □ No	te 🗆 Severe 🗀 1	Not Documented		
(If Yes \rightarrow) RVEDD Known: \square Yes \square No (If Y	$(es \rightarrow)$	RVEDD Indexed to B	SA:	cm ²
(If Yes \rightarrow) Pulmonic Stenosis: \square Yes \square No (If Y	'es→) 1	Hemodynamic /Echo	data available: ☐ Yes	No (If Yes 1)
1 unitonic stenosis.	(3 /)			
		Hığ	hest Mean Gradient:	mmHg
(If Yes→) Etiology: (choose one)				
☐ Acquired		☐ Prior Pulmoni	c Valve Intervention, E	tiology Unknown
☐ Congenital, s/p Tetralogy of Fallot (TO:	F) repair	□ Other		
□ Congenital, no prior Tetralogy of Fallot		☐ Unknown		
	(10r) Tepan	□ Ulikilowii		
Aortic Disease				
Disease of aorta: ☐ Yes ☐ No				
(If Yes \rightarrow) Presentation: \square Asymptomatic \square Symptoma	itic, hemodynamic	es stable	natic, hemodynamics u	ınstable
	☐ Yes ☐ No	Descending		Yes □ No
	☐ Yes ☐ No	Thoracoab		Yes □ No
•		THOTACOADO	uoiiiiiai 🗀	ies 🗆 No
	☐ Yes ☐ No		_	
	☐ Yes ☐ No	Pseudoane		Yes □ No
Coarctation/Narrowing	☐ Yes ☐ No	Penetrating	Ulcer □	Yes □ No
Rupture	☐ Yes ☐ No	Intramural	Hematoma	Yes □ No
	□ Yes □ No			
		□ A serts □ Clementis	□ At	l Nat Danimanta d
			☐ Acute on chronic ☐	Not Documented
Dis	section Type: L	☐ Stanford Type A ☐	Stanford Type B	

(If Vos.) Et	iology (choose at least one and up to 3)	#1		#2	#3
(II 1 es→)Et	Unknown	#1		#2	#3
	No additional etiologies				
	Aberrant Subclavian artery				
	Atherosclerosis				
	Bicuspid aortic valve syndrome				
	Ehler-Danlos syndrome				
	Endocarditis				
	Hypertensive aneurysm				
	Inflammatory				
	Loeys-Dietz Syndrome				
	Marfan Syndrome				
	Trauma				
	Other Congenital Disorder				
	Other Connective Tissue Disorder				
	Other				
		<u> </u>			
I. Operat	•				
	ive		C	and NDI.	
Surgeon:	Landi Cardian NI and an	_	Surg	eon NPI:	
	lentification Number:			1 1 1 1	
Incidence:	☐ First cardiovascular surger			hird re-op cardiovascul	
	☐ First re-op cardiovascular☐ Second re-op cardiovascular☐			ourth or more re-op car	diovasculai surgery
Status:	☐ Elective ☐ Ur		☐ Emergen	t Calvaga	
Status.	(If Urgent or Emergent che		□ Emergen	ii Salvage	
	Urgent / Emergent reas				
				PCI Incomplete wit	hout clinical deterioration
	□ Anatomy				CI with Clinical Deterioration
	☐ Aortic Aneury	vsm		Pulmonary Edema	
	☐ Aortic Dissect			Pulmonary Embolu	S
	□ CHF			Rest Angina	
	☐ Device Failure	e		Shock Circulatory S	Support
	☐ Diagnostic/Int	erventional Procedure Complication		Shock No Circulate	ory Support
	☐ Endocarditis			Syncope	
	☐ Failed Transc	atheter Valve Therapy		Transplant	
	□ IABP			Trauma	
	☐ Infected Devie			USA	
		nass or thrombus		Valve Dysfunction	
	☐ Ongoing Ische	emia		Worsening CP	
***				Other	
	reviously attempted during this admiss				
$(If Yes \rightarrow)$	Date of previous case://_	(mm/dd/yyyy)		to 4 satisfication as to st	aire. DAG en instaire and 1
	Timing of previous case:	☐ Prior to induction of anesthesi	a ⊔ Aπer	induction, prior to incis	sion
	Reason previous case was canceled:	☐ Anesthesiology event ☐ Ca	ardiac arrest	☐ Equipment/supply	issue □ Access Issue
		☐ Unanticipated tumor ☐ Do	onor Organ U	Inacceptable Abnor	mal Labs 🗆 Other
	Planned previous procedure: CA	BG □ Yes □	□ No	Valve, Surgical	□ Yes □ No
		chanical Assist Device ☐ Yes ☐	□ No	Valve, Transcath	neter
	Oth	er Non-cardiac ☐ Yes ☐	□ No	Other Cardiac	☐ Yes ☐ No
Was the cur	rent procedure canceled:	No			
$(If Yes \rightarrow)$	Canceled Timing:	rior to induction of anesthesia \Box	After induction	on, prior to incision	☐ After incision made
,	· ·			•	
				ipment/supply issue	☐ Access Issue
		nanticipated tumor	gan Unaccep	table 🛮 Abnormal La	abs □ Other
	Planned procedure: CABG	□ Yes □ No		Valve, Surgical	□ Yes □ No
		ical Assist Device		Valve, Transcatheter	☐ Yes ☐ No
		fon-cardiac ☐ Yes ☐ No		Other Cardiac	☐ Yes ☐ No
Initial Oper					racoabdominal Incision
Approach:	□ Partial sternotomy	☐ Right Thoracoto			cutaneous
Approacii.	☐ Transverse sternoton				Access
	☐ Right or left paraster				
	☐ Sub-xiphoid	☐ Limited (mini) T			ne (canceled case)
	□ Sub-Costal	☐ Limited (mini) T			ie (canceled case)
Approach c	onverted during procedure: \square Yes, pl		norucotomy	, onaterar	
		Used for entire operation \square Used	for part of th	ne operation	
	rtery Bypass: ☐ Yes, planned ☐ Yes,			е орегиноп	
Colonaly A		o unsuspected disease or anatomy		es" complete Section J)	
77.1 0	i cs, unpranned due t	o ansuspected disease of anatomy	<u> </u>	os complete section J)	

Valve Surgery: ☐ Yes ☐ No (If "Yes" complete Section K)
VAD Implanted or Removed: ☐ Yes ☐ No

Other Cardiac Procedure: Yes No (If "Yes"	complete Section M)				
Other Cardiac Procedure, AFib: Yes No (If					
Other Cardiac Procedure, Aortic: Yes, planned Yes, unplanned due to surgical complication Yes, unplanned due to unsuspected disease or anatomy No (If "Yes" complete Section M-2)					
Other Non-Cardiac Procedure: Yes No (If		or anatomy 140 (if Tes col	inpicte Section W-2)		
Enter up to 10 CPT-1 Codes pertaining to the sur		form was initiated:			
1. 2.	3.	4.	5.		
6. 7.	8.	9.	10.		
OR Entry Date And Time: / /		n:mm - 24 hr clock)			
OR Exit Date And Time: / /	: (mm/dd/yyyy hh:r	,			
Initial Intubation Date and Time: / /		/yyyy hh:mm - 24 hr clock)			
Initial Extubation Date and Time: / /	: (mm/dd/	yyyy hh:mm - 24 hr clock)			
Skin Incision Start Date and Time: / /		d/yyyy hh:mm - 24 hr clock)			
Skin Incision Stop Date and Time://	:(mm/d	d/yyyy hh:mm - 24 hr clock)			
Anesthesia End Date and Time://	: (mm/dd/yy	ryy hh:mm - 24 hr clock)			
Appropriate Antibiotic Selection:□ Yes □ No	Appropriate Antibiotic Admin	istration Timing: Yes	Appropriate Antibiotic Discontinuation:		
☐ Exclusion	☐ No ☐ Exclusion]	☐ Yes ☐ No ☐ Exclusion		
Additional intraoperative prophylactic antibiotic					
Lowest Temperature (°C):			turn 🗆 Bladder 🗆 Nasopharyngeal		
		Γympanic □ Rectal □ Other			
Lowest Intra-op Hemoglobin :	Lowest Intra-op Hematoci	rit: Highes	t Intra-op Glucose:		
CPB □ None					
Utilization: Combination (If Combination	\longrightarrow) Combination Plan: \square Pl	anned	planned\()		
	Unplanned	Reason: Exposure/visual			
	· ·	☐ Inadequate size/	diffuse disease of distal vessel		
			nstability(hypotension/arrhythmias)		
		☐ Conduit quality	and/or trauma □ Other		
☐ Full (If "Combination					
	ulation Insertion Site: (Select all th				
Aor		Axillary			
Fem	oral □ Yes □ No	Innominate ☐ Yes ☐	J No		
Venous Cann	ulation Insertion Site: (Select all th	at apply↓)			
	oral □ Yes □ No	Pulmonary Vein ☐ Yes ☐] No		
Jugu		Caval/Bicaval □ Yes □] No		
Rt A	Atrial □ Yes □ No	Other □ Yes □] No		
Lt A	trial □ Yes □ No				
	D T: (: ()				
Cardiopulmor Circulatory Arrest: ☐ Yes ☐ No (If Yes↓)	nary Bypass Time (minutes):				
Circulatory Arrest Without Cerebral	Perfusion Time: (min)				
Circulatory Arrest With Cerebral Pe					
(If Yes →) Cerebral Perfusion					
	Type: Antegrade Retro	grade	d retrograde		
Total Circulatory Arrest Time:	(System Calcula		2		
Aortic Occlusion: ☐ None – beating heart	☐ Aortic Crossclamp				
☐ None – fibrillating hear	t □ Balloon Occlusion				
	alloon occlusion" \rightarrow): Cross Clar	np Time:(min)			
	de □ Retrograde □Both		-		
(If "Antegrade", "Retrograde" or "Both"	→) Type of cardioplegia used:	⊔ Blood ⊔ Crystalloid □	Botn U Other		
Cerebral Oximetry Used: Yes No					
Diffuse Aortic Calcification (Porcelain Aorta):		D			
Assessment of Ascending Aorta/Arch for atheron Assessment of Aorta Disease:	ormal Aorta/No or minimal plaqu	\Box Extensive int	imal thickening		
Assessment of Aorta Disease.	otruding Atheroma < 5 mm		theroma >= 5 mm		
	obile plaques	□ Not documen			
Aortic Condition Altered Plan: ☐ Yes ☐ No	Pandara				
Intraop Blood Products Refused: ☐ Yes ☐ No					
(If No →) Intraop Blood Products	: □ Yes □ No				
(If Yes →) Red Blood Cell Units:	Platelet Ur	nits:			
Fresh Frozen Plasma U	nits: Cryoprecip	pitate Units:			
Intraop Clotting Factors : ☐ Yes, Factor VIIa ☐	Yes, FEIBA Yes, Composit	e □ No			
	Amino-Caproic Acid: ☐ Yes ☐	No Tranexamic Acid:	□ Yes □ No		
Intraoperative TEE Performed post procedure:					
	□ None □ Trace/trivial □ Mi				
Highest level mitral insufficiency found:	□ None □ Trace/trivial □ M				
Highest level tricuspid insufficiency found:			Not Reported		
Ejection Fraction post procedure:	☐ Unchanged ☐ Increased ☐ I	becieased in Not Reported			

Combined cardiac surgery and PCI Performed: ☐ Yes ☐ No (If Yes ↓)												
Procedures: □ PCI + CAB □ PCI + Valve □ PCI + Aortic □ PCI + Other												
Status: ☐ Concurrent- same setting ☐ Staged - PCI followed by surgery ☐ Staged - Surgery followed by PCI												
		gioplasty \square Stent \square Angio					~ 8)		-,			
		t Stent→) Stent Type: ☐ Ba					orbable	□ Multip	le 🗆 No	t docume	nted	
J. Coronary Bypass (If Coronary Artery Bypass = Yes ↓)												
		th Arterial Conduits:										
		th Venous Conduits:	(If >0 ↓)								
	Vein Harvest Techn	ique: 🗆 Endoscopic 🗖 Dir	rect Visio	n (open)	☐ Both	☐ Cryo	preserve	d				
		"Direct Vision (open)" or "Both	h''→)	Vein Har	vest and	Prep Time	e:		nutes)			
	nary Artery used for					Both IMA	s \square N	lo IMA				
(1	f No IMA→) Indica		Subclavia							salvage p		
			Previous Previous					□ No		ble) LAD	disease	
П	f Left, Right or Both I							□ O:i	ici			
(1	IMA Harvest 7	Sechnique: Direct	Vision (c	pen)		acoscopy	•	— П Со	mbination	ъ П	Robotic A	Assist
Number of Ra		or Grafts: (If		, p •11)		шеовеору					11000011	155150
		rtery Distal Anastomoses :										
		omoses Harvest Technique:			Direct V	ision (ope	en) 🗆 B	oth				
]	Radial Artery Harve	st and Prep Time:		utes)								
		stomoses Used (other than r			<u> </u>		· D ·					
Proximal Tech	inique: \square Single C	ross Clamp	lusion Cla	ımp ⊔.	Anastomo	otic Assist	Device					
			1	ı	1	1		1	ı	ı		
CABG NUM		per distal insertion)	1	2	3	4	5	6	7	8	9	10
CD A ET	Yes		NA									
GRAFT	No Left Main											
	Proximal LAD											
	Mid LAD											
(+)	Distal LAD											
DISTAL INSERTION SITE	Diagonal 1											
S	Diagonal 2											
[0]	Diagonal 3											
RT	Circumflex											
SE	Obtuse Marginal											
Z	Obtuse Marginal 2											
AL.	Obtuse Marginal 3	3										
ST	RCA											
DI	Acute Marginal (A	AM)										
	Posterior Descend											
	Posterolateral (PL	•										
	Other											
	In Situ Mammary											
	Ascending aorta		1									
PROXIMAL SITE	Descending aorta											
<u> </u>	Subclavian artery Innominate artery											
[AI	T-graft off SVG											
<u> </u>	T-graft off Radial											
l ő	T-graft off LIMA											
PR	T-graft off RIMA											
	Natural Y vein gra	aft										
	Other											
	Vein graft											
	In Situ LIMA		1									
CONDUIT	In Situ RIMA		-									
IN	Free IMA		-									
	Radial artery Other arteries, hor	mograft										
	Synthetic graft	11051411	1									
DISTAL	End to Side											
POSITION	Sequential (side to	side)										
ENDARTER		Yes										
PHUMALIEK		NI.	1	i	1			1	I	i		

K. Valve Surgery (If Valve Surge	ry=Yes ↓)				
Valve Prosthesis Explant:					
Explant Position:	☐ Aortic ☐ Mitral ☐	Tricuspid			
Explant Type:	☐ Mechanical Valve☐ Leaflet Clip	☐ Bioprosthetic Valve ☐ Transcatheter Device	☐ Homograft ☐ Other	☐ Annuloplasty Device ☐ Unknown	
Explant Etiology:	☐ Endocarditis ☐ Failed Repair ☐ Hemolysis	☐ Incompetence ☐ Pannus ☐ Para-valvular leak	☐ Prosthetic Deterioration ☐ Sizing/Positioning issue ☐ Stenosis	☐ Thrombosis ☐ Other ☐ Unknown	
	Yes □ No (If Yes→) Exp Explant: □ Yes □ No (If Y □ Aortic □ Mitral		Unique Device Identifier (UI	DI):	
Explant Type:	☐ Mechanical Valve☐ Leaflet Clip	☐ Bioprosthetic Valve☐ Transcatheter Device	_	Annuloplasty Device Unknown	
Explant Etiology:	☐ Endocarditis☐ Failed Repair☐ Hemolysis	☐ Incompetence ☐ Pannus Formation ☐ Para-valvular leak	e e		
Explant Device k	nown: ☐ Yes ☐ No (If Yes-	→) Explant model#:	Unique Device Ident	ifier (UDI):	
Aortic Valve Procedure Perform	ned: ☐ Yes, planned ☐ Y	es, unplanned due to surg	ical complication ease or anatomy \square No (If Yes	- 1)	
Procedure Performed:	□ 1 cs, unpiam	ned due to unsuspected dis	ease of anatomy \square no (if res	S ↓)	
☐ Replacement (If	Yes I)				
	theter Valve Replacement:	☐ Yes ☐ No (If Yes ↓)			
			emoral ☐ Transaortic ☐ Sub	clavian □ Other	
	truction If Repair / Reconstruct				
	y Repair Type: (Select all that				
	issural Annuloplasty	□ Yes □ No			
	t plication t free edge reinforcement (Pl	$ \Box \text{ Yes } \Box \text{ No} $ $ \Gamma \text{FE}) \qquad \Box \text{ Yes } \Box \text{ No} $			
	t commissural resuspension s				
	on of fused leaflet raphe	□ Yes □ No			
	ent with valved conduit (Ben		· · · · · · · · · · · · · · · · · · ·		
	V and insertion aortic non-va		onary position		
	and major root reconstruction		ed conduit		
	V without replacement of as				
	V with replacement of ascen	ding aorta			
	nduit (Aortic valve bypass) pulmonary valve (Ross proce	dura)			
☐ Homograft root		duie)			
2	oot reimplantation (David)				
	oot remodeling (Yacoub)				
	ot reconstruction (Florida Sl	leeve)			
Aortic Annular Enlargeme					
Implant: ☐ Yes ☐ No (In Implant Type:	Yes ↓) ☐ Mechanical Valve	□ Dioprosthatia Valva	□ Hamagraft □ Aut	ograft (Poss)	
impiant Type.	☐ Annuloplasty Device	☐ Bioprosthetic Valve ☐ Transcatheter Device		ograft (Ross)	
Implant Model N		= Transcaureter Devic	Size:		
Unique Device Id					
Mitral Valve Procedure Perfo					
		nned due to unsuspected d	isease or anatomy \square No (If	Yes ↓)	
Procedure Performed	•				
☐ Repair	air→) Repair Type: (Select all	that apply ()			
Annulopla		☐ Yes ☐ No			
Leaflet Re			Yes↓)		
		Res	ection Type: Triangular	Quadrangular 🗆 Other	
			ation: Anterior Posterio	Both Anterior and Posterior	
Leaflet Pli		☐ Yes ☐ No			
	ebridement	☐ Yes ☐ No			
Folding Pl Sliding Pl		☐ Yes ☐ No ☐ Yes ☐ No			
	ecalcification/debridement	☐ Yes ☐ No			
Neochord		□ Yes □ No	(If Yes→) # of neochords in	serted:	
	Leaflet transfer	□ Yes □ No	, , <u></u>		
	tension/replacement/patch	☐ Yes ☐ No			
Edge to Edge	dge Repair	☐ Yes ☐ No			
Mitral leat	let clin	\Box Yes \Box No			

Mitral commi		☐ Yes ☐ No	
Mitral commi		☐ Yes ☐ No	
Other repair	epair (scallop closure)	☐ Yes ☐ No ☐ Yes ☐ No	
□ Replacement	(If Replacement √)	LI TES LINO	
_ Replacement		Mitral Valve Replacement: ☐ Ye	es 🗆 No
	Mitral Chords Preserved:		
	Transcatheter Replacemen	nt: □ Yes □ No	
Implant: ☐ Yes ☐ No (
Implant Type:	☐ Mechanical Valve	☐ Bioprosthetic Valve ☐ Transcatheter Device	☐ Annuloplasty Device ☐ Other
Implant Model No			Size:
Unique Device Id	ımber:entifier (UDI):		
Tricuspid Valve Procedure Performance	rmed: ☐ Yes, planned ☐	Yes, unplanned due to surgical c	omplication
D 1 D C 1	☐ Yes, unpl	anned due to unsuspected disease	or anatomy \square No (If Yes \downarrow)
Procedure Performed: ☐ Annuloplasty only			
☐ Replacement		(If Replacement→) Transca	theter Replacement: ☐ Yes ☐ No
☐ Reconstruction with			•
Reconstruction with		1 1 4 2	1
(II Annulopiasty only C	OR "Reconstruction with Anni		Suture □ Prosthetic Ring □ Prosthetic Band
		□ Other	
□ Valvectomy			
Implant:		Diamenthatia Valera	П И
Implant Type:	☐ Mechanical Valve ☐ Annuloplasty Devi	☐ Bioprosthetic Valve ice ☐ Transcatheter Device	
Implant Model N	Number:	Size:	
	dentifier (UDI):		
Pulmonic Valve Procedure Perfor		I Yes, unplanned due to surgical canned due to unsuspected disease	
Procedure Performed:	□ 1 cs, unpr	armed due to unsuspected disease	or anatomy (if rest)
☐ Replacement	(If Replacem	nent→) Transcatheter Replacer	ment: □ Yes □ No
□ Reconstruction			
☐ Valvectomy Implant: ☐ Yes ☐ N	Jo (If Yes I)		
Implant Type:	☐ Mechanical Valve	☐ Bioprosthetic Valve	☐ Homograft
	☐ Annuloplasty Devi	-	□ Other
Implant Model Nu	mber:		
_	ntifier (UDI):		
	· /		
L. Mechanical Cardiac Assist De			
Intra-Aortic Balloon Pump (IABP): □ IABP Insertion: □ Preop □ I			
		y □ Procedural Support □ Unst	able Angina
	☐ CPB Weaning Failure □		
Catheter Based Assist Device Used:	l Yes □ No (If Yes ↓)		
Type: □ RV □ LV □ BiV When Inserted: □ Preop □ In	traon □ Poston □ Non-	operative	
			failure □ Procedural support □Other
ECMO: □ Veno-venous □ Veno-ar			(If Yes ↓)
ECMO Initiated: Preop Clinical Indication for ECMO:	Intraop ☐ Postop ☐ N	on-operative spiratory Failure	a D Pasqua/salvaga D Other
Chinical indication for Ecivio.	□ Cardiac Fanuic □ Re		a 🗀 Reseac/sarvage 🗀 Other

L.2 Ventricular Assist Devices								
(Use Key to complete table below -will be dropdown lists in software)								
Timing:	 Pre-Operative (during same hospitalization but not same OR trip as CV surgical procedure) Stand-alone VAD procedure In conjunction with CV surgical procedure (same trip to the OR)- planned In conjunction with CV surgical procedure (same trip to the OR)- unplanned Post-Operative (after surgical procedure during reoperation) 							
Indication:	1. Bridge to Transplantation 2. Bridge to Recovery 3. Destination 2. Let 3. Bridge to Transplantation 3. Biv		ght VAD (RVAD) ft VAD (LVAD) ventricular VAD (BiVAD tal Artificial Heart (TAH)		 Cardiac Transplant Recovery Device Transfer Device-Related Infection Device Malfunction End of (device) Life 			
Device: See VAD list								
-	lmitted with VAl							
(If Yes →)	Previous VAD im Insertion date: Indication: Type: Device Model Nur UDI:		□ No					
	Previous VAD Ex	planted During This Admission:			uring this procedure g this procedure			
	(If "Yes, not durin	g this procedure" or "Yes, during this p	rocedure" →) Reason	1				
		(If "Yes, not during this p	rocedure" →) Date:	/_/				
	-	lanted during this hospitalizat	ion □ Yes □ No					
(If Yes, provide data on up to 3 separate devices implanted ψ)								
*** ** ** *** * * * * * * * * * * * *								
VAD IMPLANT	[(s)	Initial implant	2nd device im ☐ Yes ☐ No		3rd Device implanted? ☐ Yes ☐ No (If Yes ↓)			
Timing	Γ(s)	Initial implant						
Timing Indication	[(s)	Initial implant						
Timing	Γ(s)	Initial implant						
Timing Indication Type Device Implant Date	Γ(s)	Initial implant						
Timing Indication Type Device Implant Date UDI			☐ Yes ☐ No	(If Yes↓)	☐ Yes ☐ No (If Yes ↓)			
Timing Indication Type Device Implant Date UDI VAD was explan		Initial implant /_/		(If Yes ↓)				
Timing Indication Type Device Implant Date UDI VAD was explan Reason (If "Yes, not during "Yes, during this property to the second to the sec	nted g this procedure" or		☐ Yes ☐ No /// ☐ Yes, not during the ☐ Yes, during this p	(If Yes ↓)	☐ Yes ☐ No (If Yes ↓) // ☐ Yes, not during this procedure ☐ Yes, during this procedure			
Timing Indication Type Device Implant Date UDI VAD was explan Reason (If "Yes, not during "Yes, during this produce to the produce the produce to the produce the	nted g this procedure" or rocedure" →)		☐ Yes ☐ No /// ☐ Yes, not during the ☐ Yes, during this p	(If Yes ↓)	☐ Yes ☐ No (If Yes ↓) // ☐ Yes, not during this procedure ☐ Yes, during this procedure			
Timing Indication Type Device Implant Date UDI VAD was explan Reason (If "Yes, not during "Yes, during this product of the complete of the co	atted g this procedure" or rocedure" →) g this procedure" →) elated to Mechanic		☐ Yes ☐ No /// ☐ Yes, not during the ☐ Yes, during this p	(If Yes ↓) nis procedure procedure	☐ Yes ☐ No (If Yes ↓) // ☐ Yes, not during this procedure ☐ Yes, during this procedure			
Timing Indication Type Device Implant Date UDI VAD was explan Reason (If "Yes, not during "Yes, during this pute (If "Yes, not during "Yes, not during "Yes, IA" (If Yes, selections reason (If "Yes, selections reason (If "Yes, selections reason (If "Yes, selections reason (If Yes, selections reason (If Yes, selections reason (If Yes, selections reason (If Yes, selections reason	atted g this procedure" or rocedure" →) g this procedure" →) elated to Mechanic ABP □ Yes, CBAD ct up to 3 complication	Yes, not during this procedure Yes, during this procedure No No -/_/	☐ Yes ☐ No / / ☐ Yes, not during the ☐ Yes, during this point in No ☐ Yes, Multiple device	(If Yes ↓) nis procedure procedure	☐ Yes ☐ No (If Yes ↓) // ☐ Yes, not during this procedure ☐ Yes, during this procedure			
Timing Indication Type Device Implant Date UDI VAD was explan Reason (If "Yes, not during "Yes, during this property of the complications roughled by the complex rough	this procedure" or rocedure" \rightarrow) this procedure" \rightarrow) elated to Mechanic ABP \square Yes, CBAE et up to 3 complication diditional complication	yes, not during this procedure yes, during this procedure no loop No yes, during this procedure No yes, during this procedure very Yes, eduring this procedure very Yes, ECMO very Yes, VAD sis →) 1st complication ons	☐ Yes ☐ No / / ☐ Yes, not during the ☐ Yes, during this point in No ☐ Yes, Multiple device	nis procedure procedure				
Timing Indication Type Device Implant Date UDI VAD was explan Reason (If "Yes, not during "Yes, during this product of the complications roll of the complex roll of the comp	this procedure" or rocedure" \rightarrow) g this procedure" \rightarrow) glated to Mechanic BP \square Yes, CBAE of up to 3 complication diditional complicational layer in site iss	yes, not during this procedure yes, during this procedure no loop No yes, during this procedure No yes, during this procedure very Yes, eduring this procedure very Yes, ECMO very Yes, VAD sis →) 1st complication ons	☐ Yes ☐ No / / ☐ Yes, not during the ☐ Yes, during this point in No ☐ Yes, Multiple device	nis procedure procedure				
Timing Indication Type Device Implant Date UDI VAD was explan Reason (If "Yes, not during "Yes, during this property of the complications roughled by the complex rough	this procedure" or rocedure" \rightarrow) g this procedure" \rightarrow) glated to Mechanic BP \square Yes, CBAE of up to 3 complication diditional complicational layer in site iss	yes, not during this procedure yes, during this procedure no loop No yes, during this procedure No yes, during this procedure very Yes, eduring this procedure very Yes, ECMO very Yes, VAD sis →) 1st complication ons	☐ Yes ☐ No / / ☐ Yes, not during the ☐ Yes, during this point in No ☐ Yes, Multiple device	nis procedure procedure				
Timing Indication Type Device Implant Date UDI VAD was explan Reason (If "Yes, not during "Yes, during this property of the complications remains of the complication of the complex of the co	this procedure" or rocedure" \rightarrow) g this procedure" \rightarrow) glated to Mechanic BP \square Yes, CBAE of up to 3 complication diditional complicational layer in site iss	yes, not during this procedure yes, during this procedure no loop No yes, during this procedure No yes, during this procedure very Yes, eduring this procedure very Yes, ECMO very Yes, VAD sis →) 1st complication ons	☐ Yes ☐ No / / ☐ Yes, not during the ☐ Yes, during this point in No ☐ Yes, Multiple device	nis procedure procedure				
Timing Indication Type Device Implant Date UDI VAD was explan Reason (If "Yes, not during "Yes, during this property of the p	this procedure" or rocedure" \rightarrow) g this procedure" or rocedure in the procedure in the proc	yes, not during this procedure yes, during this procedure no loop No yes, during this procedure No yes, during this procedure very Yes, eduring this procedure very Yes, ECMO very Yes, VAD sis →) 1st complication ons	☐ Yes ☐ No / / ☐ Yes, not during the ☐ Yes, during this point in No ☐ Yes, Multiple device	nis procedure procedure				
Timing Indication Type Device Implant Date UDI VAD was explan Reason (If "Yes, not during "Yes, during this property of the p	this procedure" or rocedure" \rightarrow) g this procedure" \rightarrow) g this procedure" \rightarrow) g this procedure" \rightarrow) gelated to Mechanic ABP Yes, CBAD ct up to 3 complication Iditional complication ula/Insertion site issue ac orrhagic olytic cion	yes, not during this procedure yes, during this procedure no loop No yes, during this procedure No yes, during this procedure very Yes, eduring this procedure very Yes, ECMO very Yes, VAD sis →) 1st complication ons	☐ Yes ☐ No / / ☐ Yes, not during the ☐ Yes, during this point in No ☐ Yes, Multiple device	nis procedure procedure				
Timing Indication Type Device Implant Date UDI VAD was explan Reason (If "Yes, not during "Yes, during this pr Date (If "Yes, not during "Yes, IA" (If Yes, sele No ac Cannot Cardi GI Hemo Hemo Infect Metal	g this procedure" or rocedure" \rightarrow) g this procedure" \rightarrow) g this procedure" \rightarrow) elated to Mechanic ABP \square Yes, CBAD et up to 3 complication lditional complication ula/Insertion site iss ac orrhagic olytic cion poolic	yes, not during this procedure yes, during this procedure no loop No yes, during this procedure No yes, during this procedure very Yes, eduring this procedure very Yes, ECMO very Yes, VAD sis →) 1st complication ons	☐ Yes ☐ No / / ☐ Yes, not during the ☐ Yes, during this point in No ☐ Yes, Multiple device	nis procedure procedure				
Timing Indication Type Device Implant Date UDI VAD was explan Reason (If "Yes, not during "Yes, during this property of the p	g this procedure" or rocedure" \rightarrow) g this procedure" \rightarrow) g this procedure" \rightarrow) gelated to Mechanical BP \square Yes, CBAD et up to 3 complication alditional complication ula/Insertion site issue. Output: Outpu	yes, not during this procedure yes, during this procedure no loop No yes, during this procedure No yes, during this procedure very Yes, eduring this procedure very Yes, ECMO very Yes, VAD sis →) 1st complication ons	☐ Yes ☐ No / / ☐ Yes, not during the ☐ Yes, during this point in No ☐ Yes, Multiple device	nis procedure procedure				

M. Other Conding Proceedings (COL C. F. D. 1. V. 1				
M. Other Cardiac Procedure (If Other Cardiac Procedure = Yes \) These procedures do not impact isolated category	These procedures move the case out of isolated category			
AFib Epicardial lesions (complete M-1)	AFib Intracardiac lesions (complete M-1)			
ASD repair- PFO type ☐ Yes ☐ No	ASD Repair- secundum or sinus venosus ☐ Yes ☐ No			
Atrial Appendage procedure: □ RAA □LAA □ Both □ No	Lead Extraction			
	☐ Yes, unplanned due to surgical complication☐ Yes, unplanned due to unsuspected disease or anatomy			
	□No			
Arrhythmia Device:	LV Aneurysm Repair:			
☐ Pacemaker ☐ Pacemaker with CRT ☐ ICD ☐ ICD with CRT ☐ Implantable Recorder ☐ None	Pulmonary Thromboembolectomy: ☐ Yes, Acute ☐ Yes, Chronic ☐ No			
Lead Insertion	Subaortic Stenosis Resection ☐ Yes ☐ No			
Myocardial Stem Cell Therapy ☐ Yes ☐ No	(If Yes ψ) Type : □ Muscle □ Ring □ Membrane □ Web □ Not Reported			
TMR	Surgical Ventricular Restoration:			
	Cardiac Trauma: ☐ Yes ☐ No			
	VSD Repair: ☐ Yes-congenital ☐ Yes-acquired ☐ No			
This procedures can sometimes (but not always) impact isolat	Other Cardiac Procedure:			
Congenital Defect Repair (complete M-3) \(\subseteq \text{Yes} \subseteq \text{No} \)	cd category.			
M.1. Complete for Epicardial and Intracardiac Atrial Fib	rillation Procedures (If Other Cardiac Procedure, AFib = Yes ↓)			
Lesion location: ☐ Primarily epicardial ☐ Primarily Intracardiac Lesions Documented: ☐ Yes ☐ No (If Yes ↓)				
Method of Lesion Creation: (Select all that apply↓)				
Radiofrequency ☐ Yes ☐ No (If Yes	→) Bipolar □ Yes □ No			
Cut-and-sew ☐ Yes ☐ No Crvo ☐ Yes ☐ No				
Cryo □ Yes □ No				
LEFT APPENDAGE	IT APPENDA GE			
7 SVC	(14)			
3B 15g				
15b -				
\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	/ ← 5			
MITRA LANNULUS 3A				
MITTAL ANYBULUS	No cyc			
60 4 to 10	lesion 3B			
	RCUSPID NIVILUS			
CORONARY CORONARY	3A			
ANTENI OF NC				
Lesions: (check all that apply \downarrow)				
☐ 1 Pulmonary Vein Isolation	☐ 9 Intercaval Line to Tricuspid Annulus ("T" lesion)			
□ 2 Box Lesion	☐ 10 Tricuspid Cryo Lesion, Medial			
☐ 3a Inferior Pulmonary Vein Connecting Lesion	□ 11 Intercaval Line			
☐ 3b Superior Pulmonary Vein Connecting Lesion	☐ 12 Tricuspid Annular Line to RAA			
☐ 4 Posterior Mitral Annular Line	☐ 13 Tricuspid Cryo Lesion			
☐ 5 Pulmonary Vein Connecting Lesion to Anterio				
☐ 6 Mitral Valve Cryo Lesion	□ 15a RAA Lateral Wall (Short)			
□ 7 LAA Ligation/Removal	☐ 15b RAA Lateral Wall to "T" Lesion			
□ 8 Pulmonary Vein to LAA	☐ 16 Other			
u o i unifoliary veni to LAA	i io Oliici			

M.2. Complete for Aortic Procedures (If Oth	er Cardiac Procedure, Aort	$ic = Yes \downarrow$)
Procedure Location: (Choose all that apply)	Root	□ Yes □ No
	Ascending	□ Yes □ No
	Hemi- Arch	□ Yes □ No
	Total Arch	□ Yes □ No
	Descending - Proximal	
	Descending - Mid	☐ Yes ☐ No
	Descending - Distal	☐ Yes ☐ No
	Thoracoabdominal	☐ Yes ☐ No
Synthetic Graft used: ☐ Yes	\square No (If Yes \rightarrow)	Intercostal vessels re-implanted: ☐ Yes ☐ No
		CSF drainage utilized: ☐ Yes ☐ No
Coil Embolization of aortic false lumen: ☐ Yes ☐	N.	Elephant Trunk: ☐ Yes ☐ No
Con Embonization of aortic false fumen. Tes	INO	
TEVAR: ☐ Yes with debranching ☐ Yes without	ut debranching ☐ No	
Other Aortic Surgery: ☐ Yes ☐ No		
M.3. Complete for Congenital Defect Repair	r (other than ASD, VS	D or Bicuspid valve)
		efer to "Congenital Diagnoses/Procedures List" document)
Diagnosis 1: Diagnosis 2:	Diagnosis 3:	
Congenital Procedures: Select up to three most	significant: (refer to "C	ongenital Diagnoses/Procedures List" document)
Procedure 1: Procedure 2:		
		
N. O.I. N. C. P. D. I. good		
N. Other Non-Cardiac Procedures (If Other)		
Carotid Endarterectomy: ☐ Yes, planned ☐		
	lue to unsuspected diseas	
Other Vascular: Yes, planned Yes, ur		
	lue to unsuspected diseas	
Other Thoracic: Yes, planned Yes, ur		
Other: \square Yes, planned \square Yes, unplanned \square	lue to unsuspected diseas	
☐ Yes, unpranned d	ue to unsuspected diseas	e or anatomy \square No
O. Post-Operative		
Peak Glucose within 18-24 hours of anesthesia end	time:	
Postoperative Creatinine Level:	time.	
Blood Products Used Postoperatively: \square Yes \square N	No (If Ves 1)	
	ozen Plasma Units:	Cryoprecipitate Units: Platelet Units:
Extubated in OR: Yes No		
Re-intubated During Hospital Stay: \square Yes \square No	(If ves →) Additional	Hours Ventilated:
Total post-operative ventilation hours	(System Calcul	
ICU Visit: ☐ Yes ☐ No (If Yes →) Initial ICU		,
Readmission to ICU: \square Yes \square No (If Yes \rightarrow) Ac		
Post Op Echo Performed to evaluate valve(s):		
Highest level aortic insufficiency found:		trivial □ Mild □ Moderate □ Severe □ Not Reported
Highest level mitral insufficiency found:		trivial □ Mild □ Moderate □ Severe □ Not Reported
Highest level tricuspid insufficiency found:		trivial □ Mild □ Moderate □ Severe □ Not Reported
Highest level pulmonic insufficiency found		trivial □ Mild □ Moderate □ Severe □ Not Reported
Post Op Ejection Fraction: ☐ Yes ☐ No (If Yes →		Op Ejection Fraction:(%)
Cardiac Enzymes (biomarkers) Drawn: ☐ Yes ☐		
		□ New ST changes □ New Pathological Q-wave or LBBB
	ner 🛘 NA (no pre-op Ek	KG for comparison, transplant)
Imaging Study for Myocardial Injury:		
□ Not performed		
☐ Angiographic evidence of new throm		If or native coronary
☐ Imaging evidence of new loss of viab		
☐ No evidence of new myocardial injur	У	
☐ Other		
P. Postoperative Events		
Surgical Site Infection within 30 days of operation:	Veg D No (15V 1)	
Starnal Superficial Wound Infaction: D Voc		adura 🗆 Vac > 20 days after procedure but during been for surgery. 🗆 No
-		edure ☐ Yes, >30 days after procedure but during hosp. for surgery ☐ No
Deep Sternal Infection/ Mediastinitis:	s, within 30 days of proce	
Deep Sternal Infection/ Mediastinitis: ☐ Yes, within 30 days of procedure ☐	s, within 30 days of proces Yes, >30 days after process.	redure but during hosp. for surgery □ No
Deep Sternal Infection/ Mediastinitis: ☐ Yes, within 30 days of procedure (If either Yes value →) Diagnosis Date:	yes, >30 days after procedured by the second of the second	redure but during hosp. for surgery □ No //dd/yyyy)
Deep Sternal Infection/ Mediastinitis: ☐ Yes, within 30 days of procedure ☐ (If either Yes value →) Diagnosis Date: Thoracotomy: ☐ Yes, within 30 days of pro	Yes, >30 days after proceedings, within 30 days after proceedings. $\frac{1}{2} = \frac{1}{2} = \frac{1}{2}$	redure but during hosp. for surgery \square No

Cannulation Site: ☐ Yes, within 30 days of procedure ☐ Yes, >30 day	s after procedure but during hosp. for surgery \square No					
Wound Intervention/Procedure: \square Yes \square No (If Yes \downarrow)						
Wound Intervention – Open with Packing/Irrigation:	\square Yes, primary incision \square Yes, secondary incision \square Both \square No					
Wound Intervention – Wound Vac:	\square Yes, primary incision \square Yes, secondary incision \square Both \square No					
Secondary Procedure Muscle Flap:	\square Yes, primary incision \square Yes, secondary incision \square Both \square No					
Secondary Procedure Omental Flap:	□ Yes □ No					
Other <u>In Hospital</u> Postoperative Event Occurred: ☐ Yes ☐ No (If Yes ↓)						
<u>Operative</u>						
ReOp for Bleeding /Tamponade: \square Yes \square No $(If Yes \rightarrow)$ Bleed Timi						
ReOp for Valvular Dysfunction: ☐ Yes, surgical ☐ Yes, transcatheter	□ No					
ReOp for Graft Occlusion: ☐ Yes, surgical ☐ Yes, PCI ☐ No						
ReOp for Other Cardiac Reasons: ☐ Yes ☐ No						
ReOp for Other Non-Cardiac Reasons: ☐ Yes ☐ No Open chest with planned delayed sternal closure: ☐ Yes ☐ No						
Sternotomy Issue: ☐ Yes ☐ No (If Yes →) Sternal instability/dehiscer	nce (sterile): \square Ves \square No					
Infection	ice (sterile). Li Tes Li No					
Sepsis: ☐ Yes ☐ No (If Yes →) Positive Blood Cultures: ☐ Yes ☐	No					
Neurologic						
Postoperative Stroke: \(\subseteq \text{Yes, hemorrhagic} \subseteq \text{Yes, embolic} \subseteq \text{Yes, t}	andetermined type □ No					
Transient Ischemic Attack (TIA): ☐ Yes ☐ No	71					
Encephalopathy: ☐ None ☐ Anoxic ☐ Embolic ☐ Drug ☐ Me	etabolic □ Intracranial Bleeding □ Other □ Unknown					
Paralysis: ☐ Yes ☐ No (If Yes →) Paralysis Type: ☐ Transient ☐	Permanent					
Pulmonary						
Prolonged Ventilation: ☐ Yes ☐ No (OR exit time until initial extubation, p	olus any additional reintubation hours)					
Pneumonia: ☐ Yes ☐ No						
Venous Thromboembolism – VTE: \square Yes \square No (If Yes \downarrow)						
Pulmonary Thromboembolism: ☐ Yes ☐ No						
Deep Venous Thrombosis: ☐ Yes ☐ No						
Pleural Effusion Requiring Drainage: ☐ Yes ☐ No						
Pneumothorax Requiring Intervention: ☐ Yes ☐ No						
Renal Renal Failure: □ Yes □ No (If Yes ↓)						
	f Yes →) Required after Hospital Discharge: ☐ Yes ☐ No					
Ultra Filtration Required: ☐ Yes ☐ No	1 105 7) Required after Hospital Discharge. 🗖 105 🗖 110					
Vascular						
Iliac/Femoral Dissection: ☐ Yes ☐ No						
Acute Limb Ischemia: ☐ Yes ☐ No						
Other						
Rhythm Disturbance Requiring Permanent Device: Pacemaker IC	CD □ Pacemaker/ICD □ Other □None					
Cardiac Arrest: ☐ Yes ☐ No						
Anticoagulant Event: ☐ Yes ☐ No						
Tamponade (Non-Surgical Intervention): ☐ Yes ☐ No						
Gastro-Intestinal Event: ☐ Yes ☐ No						
Multi-System Failure: ☐ Yes ☐ No						
Atrial Fibrillation: ☐ Yes ☐ No						
Aortic Dissection: ☐ Yes ☐ No						
Recurrent Laryngeal Nerve Injury: ☐ Yes ☐ No						
Phrenic Nerve Injury: ☐ Yes ☐ No						
Other: ☐ Yes ☐ No						
Q. Mortality						
Mortality: ☐ Yes ☐ No Discharge Status: ☐ Alive ☐ Dead	Status at 30 days After Surgery: ☐ Alive ☐ Dead ☐ Unknown					
Primary method used to verify 30-day status:						
☐ Phone call to patient or family ☐ Medical record	☐ Social Security Death Master File /NDI					
\Box Letter from medical provider \Box Office visit >= 30 days	after procedure					
(If Mortality = Yes ↓)	D.4. (11/1/2)					
Operative Death: ☐ Yes ☐ No Mortality -	Date/ (mm/dd/yyyy)					
Location of Death: ☐ OR During Initial Surgery ☐ Hospital	al (Other than OR) ☐ Home ☐ Extended Care Facility					
☐ Hospice ☐ Acute Rehabilitation						
Primary Cause of Death (select only one)						
☐ Cardiac ☐ Neurologic ☐ Renal ☐ Vascular ☐ Ir	nfection □ Pulmonary □ Unknown □ Other					

R. Discharge (If Discharg	e Status = Alive↓)				
Discharge Location:	☐ Home ☐ Extende		al Care Unit/Rehab		
			Left AMA □ Other		
Cardiac Rehabilitation Refe					
Smoking Cessation Counse		☐ Not Applicabl	e		
Medication(s) Prescribed:	Aspirin	□ Yes □ No □	Contraindicated		
Antiplatelets					
	P2Y12 Antagonists ADP Inhibitor				
		☐ Yes ☐ No ☐			
	Other Antiplatelet				
Anticoagulants	Thrombin Inhibitors	☐ Yes ☐ No ☐			
	Warfarin (Coumadin)	□ Yes □ No □			
	Factor Xa inhibitors	□ Yes □ No □			
1 CT 1 T T	Other Anticoagulant	☐ Yes ☐ No ☐			
ACE or ARB		☐ Yes ☐ No ☐			
Beta Blocker		☐ Yes ☐ No ☐			
Amiodarone Lipid lowering Stati		☐ Yes ☐ No ☐ ☐ Yes ☐ No ☐			
Lipid lowering state Lipid lowering non-					
Lipid lowering non-	Statin		Contamucated		
S. Readmission					
(If Discharge Status = Alive \downarrow) Readmit: \square Yes \square No	T I Introcura (If V 1)				
Readmit Date:	/ / (mm/dd/y	7777)			
Readmit Primary Rea		(УУУ)			
	on Complication - Pharma	cological	□ Pneumonia		
	on Complication – Valvula		□ Renal Failure		
☐ Arrhythmia/H			☐ Respiratory complication, Other		
☐ Congestive H			□ Stroke		
	ery/Graft Dysfunction		□TIA		
□ DVT			☐ Transplant Rejection		
☐ Endocarditis	. 1 2 11		□ VAD Complication		
	nduit Harvest Site		☐ Valve Dysfunction		
☐ Infection, Deep Sternum / Mediastinitis			☐ Vascular Complication, acute tina ☐ Other – Related Readmission		
☐ Myocardial Infarction and/or Recurrent Angina☐ PE			□ Other – Nonrelated Readmission		
☐ Pericardial Effusion and/or Tamponade			☐ Other – Planned Readmission		
	on requiring intervention		□ Unknown		
Readmit Primary Pro					
☐ No Procedure Performed			□ Pacemaker Insertion / AICD		
☐ Cath lab for Valve Intervention			☐ Pericardiotomy / Pericardiocentesis		
☐ Cath lab for Coronary Intervention (PCI)			☐ Thoracentesis/ Chest tube insertion ☐ Wound vac		
☐ Dialysis ☐ OR for Bleeding			☐ Other Procedure		
☐ OR for Greening ☐ OR for Coronary Artery Intervention			□ Unknown		
☐ OR for Sternal Debridement / Muscle Flap					
□ OR for Valve Intervention					
☐ OR for Vascular Procedure					
			was discussed with the patient/family prior to surgery.		
1 Yes – A risk calculator score was calculated and discussed with the patient/family prior to surgery as documented in the medical record 2 No – A risk calculator score was calculated but not discussed with the patient/family prior to surgery or discussion was not documented					
			no risk score calculated for this procedure)		
3 NA =	The applicable (cilicigent (n barvage case, or i	no risk score carculated for tins procedure)		