## The Society of Thoracic Surgeons Adult Cardiac Surgery Database

**Data Collection Form Version 4.20** 



## STS National Database™ Trusted. Transformed. Real-Time.

## Add/Change to Field \*\*Risk Variable ++NQF

| A. Administrative  |  |
|--|--|
| Participant ID: Record ID: (software ge  | nerated)   |
| Patient ID: (software generated)   |  |
| Patient participating in STS-related clinical trial:  ☐ None ☐ Trial 1 ☐ Trial 2 ☐ Trial 3 ☐ Trial 4 ☐ Trial 5 | ☐ Trial 6 (If not "None" →) Clinical Trial Patient ID:   |
| D Domographics   |  |
| B. Demographics Patient Last Name: Patient First Name:   | Patient Middle Name:   |
| Date of Birth:/ (mm/dd/yyyy) Patient Age:  |  |
| National Identification (Social Security)Number Known: ☐ Yes ☐ No ☐ Ref  |  |
| Medical Record Number:   |  |
| Permanent Street Address: City:  |  |
| Region: ZIP Code   | c: Country:  |
| Race Documented:   | White:   Am Indian/Alaskan:  |
|  | Black/African American: **   Hawaiian/Pacific Islander   |
|  | Asian: **   Other:   |
| Hispanic, Latino or Spanish Ethnicity: ** ☐ Yes ☐ No ☐ Not Docum  C. Hospitalization                           | onted ( )  |
| Hospital Name: (If Not Missing →)  | Hospital ZIP Code: Hospital Region:  |
| Hospital National Provider Identifier:   | Hospital CMS Certification Number:   |
| Primary Payor: (Choose one 1)  | (If Primary Payor ◇None/Self ↓) <b>Secondary Payor</b> : (Choose one)                            |
| □ None/Self  | □   None/Self  |
| ☐ Medicare (includes commercially managed options)   | ☐ Medicare(includes commercially managed options)  |
| If Medicare Commercially Managed Medicare Plan  → □Yes □ No (If No ↓)  HICN/MBI Known □ Yes □ No               | If Medicare Commercially Managed Medicare Plan  → □Yes □ No (If No ↓)  HICN/MBI Known □ Yes □ No |
| (If Yes ↓) (needs to accept numbers and letters – 11 digits)   | (If Yes ↓) (needs to accept numbers and letters – 11 digits)                                     |
| Primary Payor Medicare Part B: \( \sqrt{S} \) No   | Secondary Payor Medicare Part B:  Yes No   |
| ☐ Medicaid (includes commercially managed options)   | ☐ Medicaid(includes commercially managed options)  |
| ☐ Commercial Health Insurance  | ☐ Commercial Health Insurance  |
| ☐ Health Maintenance Organization  | ☐ Health Maintenance Organization  |
| □ Military   | □ Military   |
| □ Non -U.S. Plan   | □ Non -U.S. Plan   |
| Other  | Other Other  |
| Admit Date:/_/   | Date of Surgery:/ **  (mm/dd/yyyy)   |
|  | Transfer in from another hospital/acute care facility □Other                                     |
| Other Hospital Performs Cardiac Su $(If Transfer \rightarrow)$   | irgery □ Yes □ No  |

| D. Risk Factors  |                                |  |                  |                      |                     |                                       |                          |          |
|--|--------------------------------|--|------------------|----------------------|---------------------|---------------------------------------|--------------------------|----------|
| Height (cm):   | **                             |  | Weight (kg):     |                      | **                  | Calculated BM                         |                          |          |
| D 11 TY  |                                | . 5                                      |                  |                      | to de               | (system calcula                       | tion)                    |          |
| Family History of Prem                                       |                                |  |                  |                      | **                  |                                       | 1: 🗆 0:1 - 0:1           | 1.0      |
| Diabetes: ☐ Yes ☐ No   | □ Unknown (If )                | $(\text{Yes} \rightarrow)$               |                  | troi: ⊔ i<br>ner □ U |                     | lly □ Oral □ In                       | sulin $\square$ Other Su | bQ       |
|  |                                |  | L Ou             | ilei 🗆 U             | IIKIIOWII           |                                       |                          |          |
| Dialysis: ☐ Yes ☐ No   | ☐ Unknown **                   |  | Hypertension:    | □ Yes [              | □ No □ Unkno        | wn **                                 |                          |          |
|  |                                | ndocarditis Type:   Tre                  |                  |                      |                     |                                       |                          |          |
| (If Endocarditis Yes→)                                       | Endocarditis                   |  |                  |                      | es □ MRSA □         | MSSA □ Coag                           | ulase negative sta       | ph       |
|  |                                |  |                  |                      |                     | ☐ Polymicrobial                       |                          |          |
|  |                                |  | cterium (chime   | era) □Fu             | ngal 🗆 Othe         | er Unknown                            |                          |          |
| Tobacco use:   | □ Never sm                     | oker<br>very day smoker                  |                  |                      |                     |                                       |                          |          |
|  |                                | ome day smoker                           |                  |                      |                     |                                       |                          |          |
|  |                                | current status (frequency                | v) unknown       |                      |                     |                                       |                          |          |
|  | ☐ Former si                    |  | ,,               |                      |                     |                                       |                          |          |
|  |                                | status unknown                           |                  |                      |                     |                                       |                          |          |
|  |                                | ☐ Moderate ☐ Sever                       |                  |                      |                     |                                       |                          |          |
| (If Mild, Moderate or  | Type:                          |  |                  | ive 🗆 In             | terstitial Fibrosis | Restrictive □                         | Other $\square$ Multip   | ole      |
| Severe→)   |                                | □ Not Do                                 | cumented         |                      |                     |                                       |                          |          |
| Pulmonary Function Te $(If Yes \rightarrow)$ FEV1            | st Done: ☐ Yes 1  % Predicted: |  | TO Test Deaf     | .mad. 🗖              | Voc. DN- /Tex       | /aa ))                                | CO % Dec 3: -4- 1        |          |
| $(\text{If Yes} \rightarrow)$   FEV1<br>Room Air ABG Perform |                                |  | Carbon D         |                      | Yes No (If Y        | $(es \rightarrow)$ DI<br>Oxygen Level | CO % Predicted:          |          |
| Home Oxygen: ☐ Yes,  |                                |  |                  |                      |                     |                                       |                          | J Ves □  |
| **   | 110, L 105, 0X                 | Jen dependent in 140                     | - Challow        |                      | Unknown             | Jul Bronchoull                        | and inclupy.             | _ 100 LI |
| Sleep Apnea: ☐ Yes [   | □ No □ Unknow                  | n **                                     |                  | Pneu                 | monia:   Recei      | nt 🗆 Remote 🗆 N                       | No 🗆 Unknown             | **       |
| Illicit Drug Use within                                      |                                |  | /TC              | Intraveno            | us Drug Use with    | nin One Year: 🗆                       | Yes □No □ Ur             | ıknown   |
| **   |                                |  |                  |                      |                     | procedure?                            | Yes □ No □ Un            | ıknown   |
| Alcohol Use: □ <=1 dı  |                                |  |                  |                      | □ Unknown           |                                       |                          |          |
| Liver Disease: ☐ Yes   | □ No □ Unkno                   | wn **                                    |                  |                      | sis 🗆 Yes 🗆 N       | o 🗆 Unknown                           |                          |          |
|  |                                |  | (If              | Yes ↓).              |                     |                                       |                          |          |
|  |                                |  |                  | Child –Pi            | ugh Class 🛛 A       | □ B □ C □ Un                          | known                    |          |
|  |                                |  |                  |                      |                     |                                       |                          |          |
| Immunocompromised l  |                                |  | Me               | diastinal            | Radiation: 🗆 Ye     | es 🗆 No 🗀 Unkno                       | own **                   |          |
| Cancer Within 5 Years:                                       |                                | l Unknown **                             |                  |                      |                     | Yes □ No □ U                          | nknown **                |          |
| Unresponsive State: □  | Yes □ No **                    |  | Syı              | ncope: $\square$     | l Yes □ No □        | Unknown **                            |                          |          |
| G 1 1 D'   |                                | 7771 444                                 |                  |                      |                     |                                       |                          |          |
| Cerebrovascular Diseas                                       |                                |  | es →) ** Pr      | : CMA                | When D : 20         | J D > 20 J                            | ·- **                    |          |
|  |                                | No Unknown (If Y                         | es →) ** Pr      | ior CVA-             | wnen: □ <= 30       | days $\square > 30$ day               | S                        |          |
|  |                                | No □ Unknown **                          |                  |                      | N / D               | 1                                     |                          |          |
|  | (If "Pight" or "Both           | $\square$ Right $\square$ Left $\square$ | □ Botn □ I       | None ⊔               | Not Documented      | 1<br>/                                | □ 1000/ □ Not            |          |
| $(If Yes \rightarrow)$                                       | (II Right of Bott              | documented **                            | isis on the righ | it caroud i          | artery. □ 30-79%    | 0 L 00 – 99% L                        | ⊒ 100% □ Not             |          |
|  | (If "Left" or "Both            |  | sis on the left  | carotid at           | tery: □ 50-79%      | 6 □ 80 – 99% □                        | ☐ 100% ☐ Not             |          |
|  |                                | documented **                            | on the feet      | car ou a a           |                     |                                       | _ 10070 1100             |          |
| Histo  | ry of previous car             | otid artery surgery and/                 | or stenting:     | Yes 🗆 1              | No **               |                                       |                          |          |
| Enter available lab re                                       | sults below. Not               | t all tests are expected                 | d or appropri    | ate for al           | ll patients. Data   | Quality Report                        | will flag missin         | g        |
|  |                                | Hematocrit are missin                    |                  |                      |                     |                                       |                          |          |
| expected   |                                |  |                  |                      |                     |                                       |                          |          |
| WBC Count:   | *                              | Hemoglobin:                              |                  | Hematoo              | erit: **            | Platelet Count*                       | **                       |          |
| Total Albumin:   |                                | A1C Level:                               |                  | BNP                  |                     |                                       |                          |          |
| Sodium:  |                                | Last Creatinine Level*                   | **:              | Total Bi             | lirubin:            | INR:                                  |                          |          |
|  |                                |  |                  |                      |                     |                                       |                          |          |
| HIT Antibodies   |                                |  |                  | MELD S               | Score:(S            | ystem Calculation)                    |                          |          |
|  | i i                            | No Non-ambulatory                        |                  | 2:                   | ( 1.)               | lm· a                                 |                          | la)      |
| (If Yes  | ′) [11n                        | ne 1: (seconds                           | 5) [11]          | me 2:                | (seconds)           | Time 3:                               | (second                  | 18)      |
|  |                                |  |                  |                      |                     |                                       |                          |          |
| E. Previous Cardiac  |                                |  |                  |                      |                     |                                       |                          |          |
|  |                                | □ No □ Unknown **                        |                  |                      |                     |                                       |                          |          |
|  |                                | Bypass (CAB):  Yes No. 15 DeVictor       |                  | 1                    |                     | - dome - 1 - 1 - 2 - 1                | **                       |          |
| Previous   | v aive Procedure:              | ☐ Yes ☐ No If PrValv                     | e Yes, Enter at  |                      |                     | ·                                     |                          | ماد ماد  |
| No oddiri  | onal valve procedu             | uro(s)                                   | #1               | ar ar                | #2 **               | #3 **                                 | #4 **                    | #5 **    |
|  |                                | ure(s)<br>omy/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 C  | Care:  \( \subseteq \text{Yes}, \) | at this facilit | y □ Yes, at     | t some other a | acute care fa | cility $\square$ No | o **(If |
| "Yes, at this facility" or "Yes, at some other ac  |                                    | 7"↓)            |                 |                |               | ·                   | ·       |
| Indication for Surgery: ☐ PCI Comp   |                                    |                 |                 | CI Failure w   |               |                     | tion    |
|  | re with Clinic                     |                 |                 | CI/Surgery S   | taged (not S  | TEMI)               |         |
| □ PCI for S'   | ΓΕΜΙ, multiv                       | essel disease   |                 | Other          |               |                     |         |
| PCI Stent: ☐ Yes ☐ No PCI Interval:  | □ <= 6 Hou                         | · □ > 6 Hα      | nire            |                |               |                     |         |
| **   | _                                  | .s 🗆 > 0 110    | Juis            |                |               |                     |         |
| Other Previous Cardiac Interventions:   Yes   No (   | If Yes. Enter at                   | least one prev  | vious other car | diac procedure | e and up to 7 | ) **                |         |
| other rievious curatue interventions. In res Intervention  | #1 **                              | #2 **           | #3 **           | #4 **          | #5 **         | #6 **               | #7 **   |
| No additional interventions  |                                    |                 |                 |                |               |                     |         |
| Ablation, catheter, atrial arrhythmia  |                                    |                 |                 |                |               |                     |         |
| TADIATION, Cameler, arrial arrivinina  |                                    |                 |                 |                |               |                     |         |
|  |                                    |                 |                 |                |               |                     |         |
| Ablation, catheter, other or unknown   |                                    |                 |                 |                |               |                     |         |
| Ablation, catheter, other or unknown Ablation, catheter, ventricular arrhythmia  |                                    |                 |                 |                |               |                     |         |
| Ablation, catheter, other or unknown Ablation, catheter, ventricular arrhythmia Ablation, surgical, atrial arrhythmia  |                                    |                 |                 |                |               |                     |         |
| Ablation, catheter, other or unknown Ablation, catheter, ventricular arrhythmia Ablation, surgical, atrial arrhythmia Ablation, surgical, other or unknown   |                                    |                 |                 |                |               |                     |         |
| Ablation, catheter, other or unknown Ablation, catheter, ventricular arrhythmia Ablation, surgical, atrial arrhythmia Ablation, surgical, other or unknown Aneurysmectomy, LV  |                                    |                 |                 |                |               |                     |         |
| Ablation, catheter, other or unknown Ablation, catheter, ventricular arrhythmia Ablation, surgical, atrial arrhythmia Ablation, surgical, other or unknown Aneurysmectomy, LV Aortic procedure, arch   |                                    |                 |                 |                |               |                     |         |
| Ablation, catheter, other or unknown Ablation, catheter, ventricular arrhythmia Ablation, surgical, atrial arrhythmia Ablation, surgical, other or unknown Aneurysmectomy, LV Aortic procedure, arch Aortic procedure, ascending   |                                    |                 |                 |                |               |                     |         |
| Ablation, catheter, other or unknown Ablation, catheter, ventricular arrhythmia Ablation, surgical, atrial arrhythmia Ablation, surgical, other or unknown Aneurysmectomy, LV Aortic procedure, arch Aortic procedure, ascending Aortic procedure, descending  |                                    |                 |                 |                |               |                     |         |
| Ablation, catheter, other or unknown Ablation, catheter, ventricular arrhythmia Ablation, surgical, atrial arrhythmia Ablation, surgical, other or unknown Aneurysmectomy, LV Aortic procedure, arch Aortic procedure, ascending Aortic procedure, descending Aortic procedure, root   |                                    |                 |                 |                |               |                     |         |
| Ablation, catheter, other or unknown Ablation, catheter, ventricular arrhythmia Ablation, surgical, atrial arrhythmia Ablation, surgical, other or unknown Aneurysmectomy, LV Aortic procedure, arch Aortic procedure, ascending Aortic procedure, descending Aortic procedure, root Aortic procedure, thoracoabdominal  |                                    |                 |                 |                |               |                     |         |
| Ablation, catheter, other or unknown Ablation, catheter, ventricular arrhythmia Ablation, surgical, atrial arrhythmia Ablation, surgical, other or unknown Aneurysmectomy, LV Aortic procedure, arch Aortic procedure, ascending Aortic procedure, descending Aortic procedure, root Aortic procedure, thoracoabdominal Aortic Procedure, TEVAR  |                                    |                 |                 |                |               |                     |         |
| Ablation, catheter, other or unknown Ablation, catheter, ventricular arrhythmia Ablation, surgical, atrial arrhythmia Ablation, surgical, other or unknown Aneurysmectomy, LV Aortic procedure, arch Aortic procedure, ascending Aortic procedure, descending Aortic procedure, root Aortic procedure, thoracoabdominal Aortic Procedure, TEVAR Aortic root procedure, valve sparing   |                                    |                 |                 |                |               |                     |         |
| Ablation, catheter, other or unknown Ablation, catheter, ventricular arrhythmia Ablation, surgical, atrial arrhythmia Ablation, surgical, other or unknown Aneurysmectomy, LV Aortic procedure, arch Aortic procedure, ascending Aortic procedure, descending Aortic procedure, root Aortic procedure, thoracoabdominal Aortic Procedure, TEVAR Aortic root procedure, valve sparing Atrial appendage obliteration, left, surgical   |                                    |                 |                 |                |               |                     |         |
| Ablation, catheter, other or unknown Ablation, catheter, ventricular arrhythmia Ablation, surgical, atrial arrhythmia Ablation, surgical, other or unknown Aneurysmectomy, LV Aortic procedure, arch Aortic procedure, ascending Aortic procedure, descending Aortic procedure, root Aortic procedure, thoracoabdominal Aortic Procedure, TEVAR Aortic root procedure, valve sparing Atrial appendage obliteration, left, surgical Atrial appendage obliteration, left, transcatheter  |                                    |                 |                 |                |               |                     |         |
| Ablation, catheter, other or unknown Ablation, catheter, ventricular arrhythmia Ablation, surgical, atrial arrhythmia Ablation, surgical, other or unknown Aneurysmectomy, LV Aortic procedure, arch Aortic procedure, ascending Aortic procedure, descending Aortic procedure, root Aortic procedure, thoracoabdominal Aortic Procedure, TEVAR Aortic root procedure, valve sparing Atrial appendage obliteration, left, surgical Atrial appendage obliteration, left, transcatheter Cardiac Tumor  |                                    |                 |                 |                |               |                     |         |
| Ablation, catheter, other or unknown Ablation, catheter, ventricular arrhythmia Ablation, surgical, atrial arrhythmia Ablation, surgical, other or unknown Aneurysmectomy, LV Aortic procedure, arch Aortic procedure, ascending Aortic procedure, descending Aortic procedure, root Aortic procedure, thoracoabdominal Aortic Procedure, TEVAR Aortic root procedure, valve sparing Atrial appendage obliteration, left, surgical Atrial appendage obliteration, left, transcatheter Cardiac Tumor Cardioversion(s)   |                                    |                 |                 |                |               |                     |         |
| Ablation, catheter, other or unknown Ablation, catheter, ventricular arrhythmia Ablation, surgical, atrial arrhythmia Ablation, surgical, other or unknown Aneurysmectomy, LV Aortic procedure, arch Aortic procedure, ascending Aortic procedure, descending Aortic procedure, root Aortic procedure, thoracoabdominal Aortic Procedure, TEVAR Aortic root procedure, valve sparing Atrial appendage obliteration, left, surgical Atrial appendage obliteration, left, transcatheter Cardiac Tumor Cardioversion(s) Closure device, atrial septal defect  |                                    |                 |                 |                |               |                     |         |
| Ablation, catheter, other or unknown Ablation, catheter, ventricular arrhythmia Ablation, surgical, atrial arrhythmia Ablation, surgical, other or unknown Aneurysmectomy, LV Aortic procedure, arch Aortic procedure, ascending Aortic procedure, descending Aortic procedure, root Aortic procedure, thoracoabdominal Aortic Procedure, TEVAR Aortic root procedure, valve sparing Atrial appendage obliteration, left, surgical Atrial appendage obliteration, left, transcatheter Cardiac Tumor Cardioversion(s) Closure device, atrial septal defect Closure device, ventricular septal defect  |                                    |                 |                 |                |               |                     |         |
| Ablation, catheter, other or unknown Ablation, catheter, ventricular arrhythmia Ablation, surgical, atrial arrhythmia Ablation, surgical, other or unknown Aneurysmectomy, LV Aortic procedure, arch Aortic procedure, ascending Aortic procedure, descending Aortic procedure, root Aortic procedure, thoracoabdominal Aortic Procedure, TEVAR Aortic root procedure, valve sparing Atrial appendage obliteration, left, surgical Atrial appendage obliteration, left, transcatheter Cardiac Tumor Cardioversion(s) Closure device, atrial septal defect Closure device, ventricular septal defect Congenital cardiac repair, surgical  |                                    |                 |                 |                |               |                     |         |
| Ablation, catheter, other or unknown Ablation, catheter, ventricular arrhythmia Ablation, surgical, atrial arrhythmia Ablation, surgical, other or unknown Aneurysmectomy, LV Aortic procedure, arch Aortic procedure, ascending Aortic procedure, descending Aortic procedure, root Aortic procedure, thoracoabdominal Aortic Procedure, TEVAR Aortic root procedure, valve sparing Atrial appendage obliteration, left, surgical Atrial appendage obliteration, left, transcatheter Cardiac Tumor Cardioversion(s) Closure device, atrial septal defect Congenital cardiac repair, surgical ECMO   |                                    |                 |                 |                |               |                     |         |
| Ablation, catheter, other or unknown Ablation, catheter, ventricular arrhythmia Ablation, surgical, atrial arrhythmia Ablation, surgical, other or unknown Aneurysmectomy, LV Aortic procedure, arch Aortic procedure, ascending Aortic procedure, descending Aortic procedure, root Aortic procedure, thoracoabdominal Aortic Procedure, TEVAR Aortic root procedure, valve sparing Atrial appendage obliteration, left, surgical Atrial appendage obliteration, left, transcatheter Cardiac Tumor Cardioversion(s) Closure device, atrial septal defect Closure device, ventricular septal defect Congenital cardiac repair, surgical ECMO Implantable Cardioverter Defibrillator (ICD) with or  |                                    |                 |                 |                |               |                     |         |
| Ablation, catheter, other or unknown Ablation, catheter, ventricular arrhythmia Ablation, surgical, atrial arrhythmia Ablation, surgical, other or unknown Aneurysmectomy, LV Aortic procedure, arch Aortic procedure, ascending Aortic procedure, descending Aortic procedure, root Aortic procedure, thoracoabdominal Aortic Procedure, TEVAR Aortic root procedure, valve sparing Atrial appendage obliteration, left, surgical Atrial appendage obliteration, left, transcatheter Cardiac Tumor Cardioversion(s) Closure device, atrial septal defect Closure device, ventricular septal defect Congenital cardiac repair, surgical ECMO Implantable Cardioverter Defibrillator (ICD) with or without pacemaker  |                                    |                 |                 |                |               |                     |         |
| Ablation, catheter, other or unknown Ablation, catheter, ventricular arrhythmia Ablation, surgical, atrial arrhythmia Ablation, surgical, other or unknown Aneurysmectomy, LV Aortic procedure, arch Aortic procedure, ascending Aortic procedure, descending Aortic procedure, root Aortic procedure, thoracoabdominal Aortic Procedure, TEVAR Aortic root procedure, valve sparing Atrial appendage obliteration, left, surgical Atrial appendage obliteration, left, transcatheter Cardiac Tumor Cardioversion(s) Closure device, atrial septal defect Closure device, ventricular septal defect Congenital cardiac repair, surgical ECMO Implantable Cardioverter Defibrillator (ICD) with or without pacemaker Myectomy (not congenital)  |                                    |                 |                 |                |               |                     |         |
| Ablation, catheter, other or unknown Ablation, catheter, ventricular arrhythmia Ablation, surgical, atrial arrhythmia Ablation, surgical, other or unknown Aneurysmectomy, LV Aortic procedure, arch Aortic procedure, ascending Aortic procedure, descending Aortic procedure, root Aortic procedure, thoracoabdominal Aortic Procedure, TEVAR Aortic root procedure, valve sparing Atrial appendage obliteration, left, surgical Atrial appendage obliteration, left, transcatheter Cardiac Tumor Cardioversion(s) Closure device, atrial septal defect Closure device, ventricular septal defect Congenital cardiac repair, surgical ECMO Implantable Cardioverter Defibrillator (ICD) with or without pacemaker Myectomy (not congenital) Permanent  |                                    |                 |                 |                |               |                     |         |
| Ablation, catheter, other or unknown Ablation, catheter, ventricular arrhythmia Ablation, surgical, atrial arrhythmia Ablation, surgical, other or unknown Aneurysmectomy, LV Aortic procedure, arch Aortic procedure, ascending Aortic procedure, descending Aortic procedure, root Aortic procedure, thoracoabdominal Aortic procedure, TEVAR Aortic root procedure, valve sparing Atrial appendage obliteration, left, surgical Atrial appendage obliteration, left, transcatheter Cardiac Tumor Cardioversion(s) Closure device, atrial septal defect Congenital cardiac repair, surgical ECMO Implantable Cardioverter Defibrillator (ICD) with or without pacemaker  Myectomy (not congenital) Permanent Pacemaker Pericardial window/Pericardiocentesis   |                                    |                 |                 |                |               |                     |         |
| Ablation, catheter, other or unknown Ablation, catheter, ventricular arrhythmia Ablation, surgical, atrial arrhythmia Ablation, surgical, other or unknown Aneurysmectomy, LV Aortic procedure, arch Aortic procedure, ascending Aortic procedure, descending Aortic procedure, root Aortic procedure, thoracoabdominal Aortic Procedure, TEVAR Aortic root procedure, valve sparing Atrial appendage obliteration, left, surgical Atrial appendage obliteration, left, transcatheter Cardiac Tumor Cardioversion(s) Closure device, atrial septal defect Closure device, ventricular septal defect Congenital cardiac repair, surgical ECMO Implantable Cardioverter Defibrillator (ICD) with or without pacemaker Myectomy (not congenital) Permanent Pericardial window/Pericardiocentesis Pericardiectomy  |                                    |                 |                 |                |               |                     |         |
| Ablation, catheter, other or unknown Ablation, catheter, ventricular arrhythmia Ablation, surgical, atrial arrhythmia Ablation, surgical, other or unknown Aneurysmectomy, LV Aortic procedure, arch Aortic procedure, ascending Aortic procedure, descending Aortic procedure, thoracoabdominal Aortic procedure, thoracoabdominal Aortic Procedure, TEVAR Aortic root procedure, valve sparing Atrial appendage obliteration, left, surgical Atrial appendage obliteration, left, transcatheter Cardiac Tumor Cardioversion(s) Closure device, atrial septal defect Closure device, ventricular septal defect Congenital cardiac repair, surgical ECMO Implantable Cardioverter Defibrillator (ICD) with or without pacemaker Myectomy (not congenital) Permanent Pacemaker Pericardial window/Pericardiocentesis Pericardiectomy Pulmonary Thromboembolectomy   |                                    |                 |                 |                |               |                     |         |
| Ablation, catheter, other or unknown Ablation, catheter, ventricular arrhythmia Ablation, surgical, atrial arrhythmia Ablation, surgical, other or unknown Aneurysmectomy, LV Aortic procedure, arch Aortic procedure, ascending Aortic procedure, descending Aortic procedure, thoracoabdominal Aortic procedure, thoracoabdominal Aortic Procedure, TEVAR Aortic root procedure, valve sparing Atrial appendage obliteration, left, surgical Atrial appendage obliteration, left, transcatheter Cardiac Tumor Cardioversion(s) Closure device, atrial septal defect Closure device, ventricular septal defect Congenital cardiac repair, surgical ECMO Implantable Cardioverter Defibrillator (ICD) with or without pacemaker Myectomy (not congenital) Permanent Pacemaker Pericardial window/Pericardiocentesis Pericardiectomy Pulmonary Thromboembolectomy Total Artificial Heart (TAH)            |                                    |                 |                 |                |               |                     |         |
| Ablation, catheter, other or unknown Ablation, catheter, ventricular arrhythmia Ablation, surgical, atrial arrhythmia Ablation, surgical, other or unknown Aneurysmectomy, LV Aortic procedure, arch Aortic procedure, ascending Aortic procedure, descending Aortic procedure, thoracoabdominal Aortic procedure, TEVAR Aortic root procedure, valve sparing Atrial appendage obliteration, left, surgical Atrial appendage obliteration, left, transcatheter Cardiac Tumor Cardioversion(s) Closure device, atrial septal defect Closure device, ventricular septal defect Congenital cardiac repair, surgical ECMO Implantable Cardioverter Defibrillator (ICD) with or without pacemaker Myectomy (not congenital) Permanent Pacemaker Pericardial window/Pericardiocentesis Pericardiectomy Pulmonary Thromboembolectomy Total Artificial Heart (TAH) Transmyocardial Laser Revascularization (TMR) |                                    |                 |                 |                |               |                     |         |
| Ablation, catheter, other or unknown Ablation, catheter, ventricular arrhythmia Ablation, surgical, atrial arrhythmia Ablation, surgical, other or unknown Aneurysmectomy, LV Aortic procedure, arch Aortic procedure, ascending Aortic procedure, descending Aortic procedure, thoracoabdominal Aortic procedure, thoracoabdominal Aortic Procedure, TEVAR Aortic root procedure, valve sparing Atrial appendage obliteration, left, surgical Atrial appendage obliteration, left, transcatheter Cardiac Tumor Cardioversion(s) Closure device, atrial septal defect Closure device, ventricular septal defect Congenital cardiac repair, surgical ECMO Implantable Cardioverter Defibrillator (ICD) with or without pacemaker Myectomy (not congenital) Permanent Pacemaker Pericardial window/Pericardiocentesis Pericardiectomy Pulmonary Thromboembolectomy Total Artificial Heart (TAH)            |                                    |                 |                 |                |               |                     |         |

| Ventricular Assist Device (VAD), BiVAD  |  |  |  |  |
|---|--|--|--|--|
| Ventricular Assist Device (VAD), left   |  |  |  |  |
| Ventricular Assist Device (VAD), right  |  |  |  |  |
| Other Cardiac Intervention (not listed) |  |  |  |  |

|  | e Cardiac Status         |          |   |                        |   |                                     |                               |   |                                 |                             |
|--|--------------------------|----------|---|------------------------|---|-------------------------------------|-------------------------------|---|---------------------------------|-----------------------------|
| Prior Myocardial                         | Infarction:   Yes   No   |          |   |                        |   |                                     |                               |   |                                 |                             |
|  |                          |          | en: □ <=6 H                                     |                        |   |                                     | □ 1 to                        | 7 Days □ 8 to 2                         | 1 Days □ >21 Da                 | ıys **                      |
| Primary Coronary<br>Surgery: **          | ]<br>[                   | □ Stab   |   | •                      | □ Uns   | ina Equiv<br>table Ang<br>-ST Eleva | ina                           | Non-STEMI)                              |                                 |                             |
| Heart Failure:□ Y                        | es □ No □ Unknown        |          |   | ng: 🗆 Acute            | e 🗆 Ch  | ronic 🗆 1                           | Both                          | Type:   Systolic [                      | ☐ Diastolic ☐ Bot               | h 🗆 Unavailable             |
| Classification-NY                        | HA: □ Class I □ Clas     | s II 🗆   | Class III                                       | Class IV               | □ Not   | Documer                             | nted **                       |   |                                 |                             |
| Cardiogenic Shock                        | k:   Yes, at the time of | f the pi | rocedure 🛘                                      | Yes, not at            | the tim   | e of the p                          | rocedure l                    | but within prior 24                     | hours   No **                   |                             |
| **                                       | Yes - Within 1 hour of   | the star | t of the proce                                  | edure 🗆                | Yes - M   | ore than                            | l hour but                    | t less than 24 hours                    | of the start of the p           | procedure                   |
| Cardiac Arrhythm                         |                          |          |   |                        |   |                                     |                               |   |                                 |                             |
| (If Arrhythmia = Ye                      |                          |          |   |                        |   | L                                   | aleate                        | LATRI III de dede                       | la 15                           | m: 15                       |
| (If Arrhythmia = Ye below for each rhyth |                          | VTach    |   | Sick Sinus<br>Syndrome |   | AFlutter                            | **                            | AFibrillation **                        | Second Degree<br>Heart Block ** | Third Degree Heart Block ** |
|  | None                     |          |   |                        |   |                                     |                               |   |                                 |                             |
|  | note (> 30 days preop)   |          |   |                        |   |                                     |                               |   |                                 | 1                           |
| Reco                                     | ent (<= 30 days preop)   |          |   |                        |   |                                     |                               |   |                                 |                             |
| (If AFibrillation not                    | 'None' →)                | Atrial   | Fibrillation 7                                  | Гуре: 🗆 Ра             | aroxysm   | al 🗆 Per                            | sistent *                     | *                                       |                                 | 1                           |
| (If AFibrillation = R)                   | ecent →)                 | Was pa   | atient in A-fi                                  | b at OR En             | try?  | l Yes □                             | No                            |   |                                 |                             |
|  |                          |          |   |                        |   |                                     |                               |   |                                 |                             |
| G. Preoperativo                          | e Medications            |          |   |                        |   |                                     |                               |   |                                 |                             |
|  | ledication               |          | Timefra   | ame                    | 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 ++          |          | ithin 24 hou                                    |                        | ☐ Yes ☐ No ☐ Contraindicated  |                                     |                               |   |                                 |                             |
|  | Beta Blocker             | w        | n therapy for<br>eeks prior to                  | surgery                | ☐ Yes ☐ No ☐ Contraindicated ☐ Unknown                                      |                                     |                               |   |                                 |                             |
|  | Calcium Channel Block    | w        | weeks prior to surgery                          |                        | ☐ Yes ☐ No ☐ Contraindicated ☐ Unknown                                      |                                     |                               |   |                                 |                             |
| Antianginal                              | Long-acting Nitrate      | W        | On the rapy for $\geq 2$ weeks prior to surgery |                        | ☐ Yes ☐ No ☐ Contraindicated ☐ Unknown                                      |                                     |                               |   |                                 |                             |
|  | Nitrates, intravenous    |          | ithin 24 hou                                    |                        | □ Yes □ No  |                                     |                               |   |                                 |                             |
|  | Other Antianginal        | w        | n therapy for<br>eeks prior to                  | surgery                | ☐ Yes ☐ No ☐ Contraindicated ☐ Unknown                                      |                                     |                               |   |                                 |                             |
|  | ADP Inhibitor            | W        | ithin 5 days                                    |                        | ☐ Yes   | □ No □                              | ] Contrair                    | ndicated   Unkno                        |                                 |                             |
|  | (includes P2Y12) **      |          |   |                        | (If Yes-  | →) ADP                              | Inhibitors                    | s Discontinuation:                      | (# days p                       | rior to surgery) **         |
| Antiplatelet                             | Aspirin                  | W        | ithin 5 days                                    |                        | □ Yes   |                                     |                               | ndicated 🛮 Unkno                        | wn                              |                             |
| <b>F</b>                                 |                          |          |   |                        | (If Yes-  |                                     |                               | iscontinuation:                         |                                 | r to surgery)               |
|  | Glycoprotein IIb/IIIa *  | * 11     | ithin 24 hou                                    | ***                    | ☐ Yes   | ·                                   | Aspırın oı                    | ne time dose: \( \subseteq \text{ Ye}   | es 🗆 No                         |                             |
|  | Anticoagulants           |          | 7ithin 48 hou                                   |                        | □ Yes   |                                     |                               |   |                                 |                             |
|  | (Intravenous/ SubQ)      | ''       | iumi 40 nou                                     | 13                     | L 103   | □ 140                               |                               |   |                                 |                             |
| Anticoagulant                            |                          |          |   |                        | (If Yes-  |                                     | □ Heparii<br>□ Both<br>□Other | n (Unfractionated)<br>n (Low Molecular) |                                 |                             |
|  | Warfarin (Coumadin)      | W        | ithin 5 days                                    | _                      | □ Yes   | □ No                                | □ Unkno                       | wn                                      |                                 |                             |
|  |                          |          |   |                        | (If Yes-  | →) Cou                              | madin Di                      | scontinuation:                          | (# days prior                   | to surgery)                 |
|  | DOAC                     | W        | ithin 5 days                                    |                        | □ Yes   | □ No                                | □ Unkno                       | wn                                      |                                 |                             |
|  |                          |          |   |                        | (If Yes-  | →) DO                               | AC Disco                      | ntinuation:                             | (# days prior to                | o surgery)                  |
|  |                          |          |   |                        |   |                                     |                               |   |                                 |                             |

|                       | Thro    | ombolytics                | Within 24 hours  | □ Yes  | □ No  |  |  |  |  |
|-----------------------|---------|---------------------------|--|--|---|--|--|--|--|
| Inotropic, Intrave    |         |                           |  | □ Yes  |   |  |  |  |  |
| Lipid Lowering        | enous . |                           |  |  | □ No □ Contraindicated □ Unknown                                      |  |  |  |  |
|                       |         |                           |  | (If Yes→) Medication Type : ☐ Statin ☐ Statin + Other ☐ Non-statin/Other |   |  |  |  |  |
| Steroids **           |         |                           | Within 24 hours  | `  | ☐ Yes ☐ No ☐ Contraindicated ☐ Unknown                                |  |  |  |  |
| Steroids              |         |                           | Within 24 nours  | □ 1 CS   | 1 No 1 Contramucated 1 Onknown  |  |  |  |  |
| H. Hemodyna           | mios    | Cath/Eaha                 |  |  |   |  |  |  |  |
|                       |         | Performed :  Yes          | □ No (If Ves→)   | Cardiac  | Catheterization Date:/  |  |  |  |  |
|                       |         | sease known:              |  | Cardiac  | Cancerization Date.   |  |  |  |  |
|                       | J       |                           |  | □ None   | One OTive OThree  |  |  |  |  |
|                       |         | vessel disease $\psi$ )   | essels ***(If one, two or three  | ⊔ None   | □ One □ Two □ Three   |  |  |  |  |
|                       |         | vesser arsease v )        |  |  |   |  |  |  |  |
|                       | **      | Left Main stenosis ≥      | ≥ 50% known □ Yes □ No   | □ N/ A   | 1   |  |  |  |  |
|                       |         |                           | is location of stenosis known  |  |   |  |  |  |  |
|                       |         |                           |  |  |   |  |  |  |  |
|                       |         |                           | (If Yes select all that apply  | $\longrightarrow$ )  | Native Artery Stenosis ☐ Stenotic Graft ☐ Stenotic Stent              |  |  |  |  |
|                       | **      | I AD distribution store   | nosis $\geq 50\%$ known $\square$ Yes                                      | □ N <sub>1</sub> - □   | I NI/A  |  |  |  |  |
|                       | 4-4-    | LAD distribution ster     | 1000000000000000000000000000000000000                                      | □ No L   | J N/A   |  |  |  |  |
|                       |         | (If Yes                   | Is location of stenosis k  | nown: [  | 7 Yes □ No  |  |  |  |  |
|                       |         |                           | (If Yes select all t   |  | ☐ Native Artery Stenosis ☐ Stenotic Graft ☐ Stenotic Stent            |  |  |  |  |
|                       |         |                           | apply  | $\longrightarrow$  | •   |  |  |  |  |
|                       |         | Ramus stenosis $\geq 509$ | % known □ Yes □ No □ 1   | N/A  |   |  |  |  |  |
|                       |         | (If Yes                   | $\square$ 50-69% $\square \ge 70\%$  |  |   |  |  |  |  |
|                       |         |                           | Is location of stenosis k  |  | ☐ Yes ☐ No ☐ Native Artery Stenosis ☐ Stenotic Graft ☐ Stenotic Stent |  |  |  |  |
|                       |         |                           | appl   |  | I Native Artery Stenosis Li Stenotic Graft Li Stenotic Stent          |  |  |  |  |
|                       |         | Circumflex distribution   | on stenosis $\geq 50\%$ known  |  | ] No □ N/A  |  |  |  |  |
|                       |         |                           | $\Box$ 50-69% $\Box$ > 70%   | 100 2  |   |  |  |  |  |
|                       |         | (If Yes                   | Is location of stenosis k  |  |   |  |  |  |  |
|                       |         |                           |  |  | ☐ Native Artery Stenosis ☐ Stenotic Graft ☐ Stenotic Stent            |  |  |  |  |
|                       |         | D.C. I II I               |  | ly→)   | - Wil   |  |  |  |  |
|                       |         | RCA distribution ster     | nosis $\geq 50\%$ known $\square$ Yes $\square$ 50-69% $\square \geq 70\%$ | □ No I   | □ N/A   |  |  |  |  |
|                       |         | (If Yes                   | Is location of stenosis k  | nown: I  | 7 Ves □ No  |  |  |  |  |
|                       |         |                           |  |  | ☐ Native Artery Stenosis ☐ Stenotic Graft ☐ Stenotic Stent            |  |  |  |  |
|                       |         |                           |  | ly→)   | ,                               |  |  |  |  |
|                       |         | : □ Yes □ No (If Ye       |  | tion Fra   |   |  |  |  |  |
|                       |         |                           | S→) LV End-Systolic Din  |  |   |  |  |  |  |
|                       | sure N  | Ieasured: ☐ Yes ☐ I       | No (If Yes $\rightarrow$ ) PA S  | Systolic   | Pressure:mmHg   |  |  |  |  |
| Aortic Valve          |         |                           |  |  |   |  |  |  |  |
|                       |         | tion: Yes No              |  |  | Moderate □ Severe □ Not Documented                                    |  |  |  |  |
| (II Tes →             | **      |                           | on: 1 mviai/ i race   1 milo   | 1 LN   | Moderate  |  |  |  |  |
| Aortic Valve Ste      | nosis:  | □ Yes □ No                |  |  |   |  |  |  |  |
| **                    |         |                           |  |  |   |  |  |  |  |
| (If Yes $\rightarrow$ | ) Ao    | rtic Valve Stenosis:      | ☐ Mild ☐ Moderate ☐ S  | evere  | □ Not Documented  |  |  |  |  |
|                       |         | 7037                      |  |  |   |  |  |  |  |
|                       | (       | Hemodyna (Hemodyna        | amic/Echo Data Available: [  | ⊔ Yes  | ∐ No  |  |  |  |  |
|                       |         | (If Yes                   | Aortic Valve Area:   | cm <sup>2</sup>  |   |  |  |  |  |
|                       |         | $\rightarrow$ )           | Aortic Valve Area.   | (111   |   |  |  |  |  |
|                       |         |                           | Mean Gradient:   | mmHg   |   |  |  |  |  |
|                       |         |                           | Aortic Jet Velocity (V <sub>max</sub> ):                                   |  | m/s   |  |  |  |  |
| Aortic Valve Dis      | sease:  | ☐ Yes ☐ No                | riorde set velocity (vinax):   |  |   |  |  |  |  |
| (If Aortic Valve      |         |                           | ase Etiology Choose PRIMA  | RY Etio  | logy (one): **  |  |  |  |  |
| ☐ Bicuspid v          |         |                           |  |  | Primary Aortic Disease, Hypertensive Aneurysm                         |  |  |  |  |
| □ Unicuspid           | valve   | disease                   |  |  | Primary Aortic Disease, Idiopathic Root Dilatation                    |  |  |  |  |
| □ Quadricus           |         |                           |  |  | Primary Aortic Disease, Inflammatory                                  |  |  |  |  |
|                       |         |                           | uspid, or Quadricuspid)  |  | Primary Aortic Disease, Loeys-Dietz Syndrome                          |  |  |  |  |
| ☐ Degenera            |         |                           | *.4 . * ***  |  | Primary Aortic Disease, Marfan Syndrome                               |  |  |  |  |
|                       |         |                           | or without annular dilation  |  | Primary Aortic Disease, Other Connective tissue disorder              |  |  |  |  |
| ☐ Degenera            | uve- P  | ure amunar ullatation     | without leaflet prolapse   |  | Radiation induced heart disease                                       |  |  |  |  |

| ☐ Degenerative- Commissural rupture   |   |   |  |  |  |  |  |
|---|---|---|--|--|--|--|--|
| ☐ Degenerative- Extensive fenestration  |   |   |  |  |  |  |  |
| ☐ Degenerative- Leaflet perforation/hole  |   | Supravalvular Aortic Stenosis                         |  |  |  |  |  |
| ☐ Endocarditis, native valve with root abscess  |   | Trauma  |  |  |  |  |  |
| ☐ Endocarditis, native valve without root abscess   |   | Carcinoid   |  |  |  |  |  |
| Endocarditis, prosthetic valve with root abscess  |   | Tumor, Myxoma   |  |  |  |  |  |
| Endocarditis, prosthetic valve without root abscess   |   | Tumor, Papillary Fibroelastoma                        |  |  |  |  |  |
| LV Outflow Tract Pathology, HOCM  |   | · · · · · · · · · · · · · · · · · · ·                 |  |  |  |  |  |
| LV Outflow Tract Pathology, Sub-aortic membrane   |   | ☐ Mixed Etiology                                      |  |  |  |  |  |
| LV Outflow Tract Pathology, Sub-aortic tunnel   |   | Not Documented  |  |  |  |  |  |
| LV Outflow Tract Pathology, Other   |   |   |  |  |  |  |  |
| ☐ Primary Aortic Disease, Aortic Dissection ☐ Primary Aortic Disease, Atherosclerotic Aneurysm  |   |   |  |  |  |  |  |
|   |   |   |  |  |  |  |  |
| ☐ Primary Aortic Disease, Ehlers-Danlos Syndrome  Mitral Valve  |   |   |  |  |  |  |  |
| Mitral Valve Regurgitation:-□ Yes □ No  |   |   |  |  |  |  |  |
| Wittai Vaive Reguigitation Li Tes Li No   |   |   |  |  |  |  |  |
| (If Yes →) Mitral Regurgitation: ☐ Trivial/Trace ☐Mild ☐  | Moderate ☐ Sev                              | vere □ Not Documented **                              |  |  |  |  |  |
|   |   |   |  |  |  |  |  |
| Mitral Valve Stenosis: ☐ Yes ☐ No **  |   |   |  |  |  |  |  |
| $(\text{If Yes} \rightarrow) \qquad \text{Mitral Valve Stenosis: } \square \text{ Mild } \square \text{ Moderate } \square \text{ Set}$ |   |   |  |  |  |  |  |
| (If Yes→) Hemodynamic/ Echo data  |   |   |  |  |  |  |  |
|   | a: cm <sup>2</sup>                          |   |  |  |  |  |  |
| (If Yes →) Mean Gra   | dient: m                                    | nmHg  |  |  |  |  |  |
|   |   |   |  |  |  |  |  |
| Mitral Valve Disease: ☐ Yes ☐ No  |   |   |  |  |  |  |  |
| _   |   |   |  |  |  |  |  |
| Choose PRIMARY Lesion (one): (If Mitral Valve Disease, Yes  |   |   |  |  |  |  |  |
|   |   | Pure Annular Dilatation                               |  |  |  |  |  |
| $\square$ Class I – Normal Leaflet Mobility (if yes $\rightarrow$ )   |   | Endocarditis, Native Valve                            |  |  |  |  |  |
|   |   | Other/ Unknown/Not Available                          |  |  |  |  |  |
|   |   | Myomatous degenerative prolapse/flail                 |  |  |  |  |  |
|   |   | Endocarditis  |  |  |  |  |  |
| $\square$ Class II – Increased Leaflet Mobility (if yes $\rightarrow$ )   |   | Other/Unknown/Not Available                           |  |  |  |  |  |
| Class II Mercased Beariet Wooling (II yes 1)  |   | □Posterior Leaflet                                    |  |  |  |  |  |
|   |   | (If Myomatous→) □Anterior Leaflet                     |  |  |  |  |  |
|   |   | □Both   |  |  |  |  |  |
|   |   | Rheumatic<br>Tumor (Carcinoid or Other)               |  |  |  |  |  |
|   |   | Radiation Induced Heart Disease                       |  |  |  |  |  |
| ☐ Class III A—Restricted Leaflet Mobility (systole and diastole   | \ (1\tau \tau \tau \tau \tau \tau \tau \tau | MAC   |  |  |  |  |  |
|   |   | Congenital  |  |  |  |  |  |
|   |   | Other/Unknown/Not Available                           |  |  |  |  |  |
|   |   | Ischemic (acute/chronic)                              |  |  |  |  |  |
| ☐ Class III B – Restricted Leaflet Mobility (systole only)  |   | Non-ischemic Cardiomyopathy                           |  |  |  |  |  |
| $(if yes \rightarrow)$  |   | HCM   |  |  |  |  |  |
|   |   | ☐ Other/Unknown/Not Available                         |  |  |  |  |  |
|   |   | Mixed leaflet lesion (prolapse/flail and restriction) |  |  |  |  |  |
| ☐ Mixed Lesion (Type II and Type IIIA)  |   | Congenital Congenital                                 |  |  |  |  |  |
| I wind Lesion (Type if and Type III t)  |   | MAC   |  |  |  |  |  |
|   | <u> </u>                                    | Other/Unknown/Not Available                           |  |  |  |  |  |
| ☐ Acute Papillary muscle rupture  |   |   |  |  |  |  |  |
| Reoperative-Failure of previous MV repair or replacement  |   |   |  |  |  |  |  |
| Other/Unknown/Not Available   |   |   |  |  |  |  |  |
| Tricuspid Valve   |   |   |  |  |  |  |  |
| Tricuspid Valve Regurgitation:  Yes No  | al/Traca 🗆 Mild F                           | ☐ Moderate ☐ Severe ☐ Not Documented **               |  |  |  |  |  |
| Tricuspid Valve Stenosis: Yes \( \square\) No \( \square\)  | ai/Trace 🗀 Milia L                          | □ Woderate □ Severe □ Not Documented ***              |  |  |  |  |  |
| Theuspiu vaive Sichosis. Tes Li No Li   |   |   |  |  |  |  |  |
| (If Yes→) <b>Tricuspid Valve Stenosis:</b> □ M  | ild □ Moderate □                            | Severe D Not Documented                               |  |  |  |  |  |
| Tricuspid Valve Disease: $\square$ Yes $\square$ No   | III I Moderate I                            |   |  |  |  |  |  |
| 1100 D 100 D 100 D 100  |   |   |  |  |  |  |  |
| (If Tricuspid Disease, Yes →) Tricuspid Annular Echo Measur   | ement Available: [                          | ☐ Yes ☐ No  |  |  |  |  |  |
| $(\text{If Yes} \rightarrow)$   |   |   |  |  |  |  |  |
| (If Tricuspid Disease, Yes↓) <b>TV Etiology:</b> Choose ONE PRIM.   | ARY Etiology:                               |   |  |  |  |  |  |
| 1   |   |   |  |  |  |  |  |

|                                    |   |  |  |  |  |  | $\overline{}$ |
|------------------------------------|---|--|--|--|--|--|---------------|
|                                    | Functional/ se  |  |  |  | Rheumatic  |  |               |
|                                    | Endocarditis,   | Native Valve   |  |  | Tumor  |  |               |
|                                    | Endocarditis,   | Prosthetic Valve   |  |  | Radiation induce   | ed heart disease   |               |
|                                    | Carcinoid   |  |  |  | Trauma   |  |               |
|                                    | Congenital  |  |  |  |  | lure of previous TV repair or replacement  | -             |
|                                    |   |  |  |  | Neoperation-rai  | fulle of previous 1 v repair of replacement  |               |
|                                    | Degenerative  |  |  |  | Mixed etiology   |  |               |
|                                    |   | atheter induced dy   | ysfunction   |  | Not Documented   | d  |               |
| Pulmor                             | nic Valve   |  |  |  |  |  |               |
| Pulmon                             | ic Valve Regur  | gitation: 🗆 Yes 🗀  | l No   |  |  |  |               |
|                                    |   |  | Regurgitation: 🗆 Trivial/Trace   | e □ Mild □   | l Moderate □ Seve  | ere  Not Documented  |               |
| Dulmon                             |   | is: ☐ Yes ☐ No   | teguignation. — Illivial, liace  | , <u> </u>   | Tillouciate E Bell   | ice = 1.0t Bocumented  |               |
| Fullion                            | ic valve stellos  | is. Li les Li No   |  |  |  |  |               |
|                                    |   |  |  |  | _  |  |               |
|                                    |   |  | Stenosis: 🗆 Mild 🗀 Moderate  |  |  |  |               |
|                                    | (If Yes→)   | Hemodynamic /E   | cho data available: ☐ Yes ☐  | No (If Yes ↓)  | )  |  |               |
|                                    | (11 1 cs /)   |  |  |  |  |  |               |
|                                    |   |  |  |  |  |  |               |
|                                    |   | Mean   | Gradient: mmHg   |  |  |  |               |
| Dulmon                             | ia Valva Disaas   | e: 🗆 Yes 🗆 No  | Gradient :nining   |  |  |  | $\overline{}$ |
|                                    | onic Valve Diseas   |  | Ind a  |  |  |  |               |
| `                                  |   | se, Yes→)  | Etiology: (choose one)   |  | 1  |  |               |
|                                    | Acquired  |  |  |  | Reoperation-Fai  | lure of previous PV repair or replacement  |               |
|                                    | Padiation ind   | luced heart disease  |  |  | Endocarditis   |  |               |
|                                    |   |  |  |  |  |  |               |
|                                    | Congenital, s   | p Tetralogy of Fa  | llot (TOF) repair  |  | Endocarditis, Pro  | osthetic valve   |               |
|                                    |   |  |  |  | Mixed etiology   |  |               |
|                                    | Congenital, n   | o prior Tetralogy  | of Fallot (TOF) repair   |  | Other  |  |               |
|                                    | <i>g</i> ,  | r  |  | П  | Not Documented   | 4  | _             |
|                                    |   |  |  |  | prot Documented  | u  |               |
|                                    |   |  |  |  |  |  |               |
| I. Ope                             | erative   |  |  |  |  |  |               |
|                                    |   |  |  |  | Surgeon NPI:   |  |               |
| Burgeon                            | 1   |  |  |  | burgeon 141 1.   | <del></del>  |               |
| _                                  |   |  |  |  |  |  |               |
|                                    | er Identification   |  |  |  |  |  |               |
| Indicate                           | e whether the S'  | TS Risk Calculator   | r score was discussed with the   | patient/fami   | ily prior to surgery.  | . ++   |               |
|                                    | □ Vec STS ric   | de anlaulator capra  | was calculated and discussed   |  |  | surgery as documented in the medical record  |               |
|                                    |   | sk calculator score  |  | with the pat   | ient/family prior to   | Surgery as documented in the inedical record   |               |
|                                    |   |  |  |  |  |  |               |
|                                    | □ No, STS ris   | sk calculator score  |  |  |  | n the patient/family prior to surgery or the discussion  | 1             |
|                                    | ☐ No, STS ris   | sk calculator score<br>ented   | was available for scheduled p  | procedure but  | t not discussed with   | n the patient/family prior to surgery or the discussion  | 1             |
|                                    | ☐ No, STS ris<br>was not docum<br>☐ NA, Not app   | sk calculator score<br>ented<br>olicable (emergent   | was available for scheduled p<br>t or salvage case, or no risk mo  | procedure but  | t not discussed with   | n the patient/family prior to surgery or the discussion  | n             |
| Inciden                            | ☐ No, STS ris<br>was not docum<br>☐ NA, Not app   | sk calculator score<br>ented   | was available for scheduled p<br>t or salvage case, or no risk mo  | procedure but  | t not discussed with   | n the patient/family prior to surgery or the discussion  | n             |
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| Aorta Procedure Performed:   | □ Vac mla  | nnad  |   |  |
|--|--|---|---|--|
| Aorta Procedure Performed:   | ☐ Yes, pla   |   |   |  |
|  |  | planned due to surgical complication  |   |  |
|  |  | planned due to unsuspected disease  | e or anatomy  |  |
|  | □ No   |   |   |  |
|  |  | mplete Section M 2)   |   |  |
|  | (If Aorta Pr   | ocedure performed $\rightarrow$ ) Did the sur   | rgeon provide input for aortic surgery data a   | bstraction? ☐ Yes ☐ No   |
| Valve Procedure Performed:   | □ Yes □  | No  |   |  |
|  |  |   |   |  |
|  |  | Was a valve explanted: ☐ Yes ☐  | ] No  |  |
|  |  | (If "Yes" complete Section K)   |   |  |
|  |  | Aortic Valve Procedure performe   | ed:  Yes, planned   |  |
|  |  | F   | ☐ Yes, unplanned due to surgical comp   | lication   |
|  |  |   | ☐ Yes, unplanned due to unsuspected d   |  |
|  |  |   | □ No  | iscase of anatomy  |
|  | ļ  |   |   | 4 A 4 2 D X D N  |
|  |  |   | (If Yes Was a procedure performed on  |  |
|  |  |   | →) (If 'Yes' complete M2; If 'No' com   | plete K1)  |
|  |  | Mitral Valve Procedure performe   |   |  |
|  |  |   | ☐ Yes, unplanned due to surgical comp   |  |
|  | $(If Yes \rightarrow)$   |   | ☐ Yes, unplanned due to unsuspected d   | isease or anatomy  |
|  | $(11 1es \rightarrow)$   |   | □ No  |  |
|  |  |   | (If 'Yes' complete K2)  |  |
|  |  | Tricuspid Valve Procedure   | ☐ Yes, planned  |  |
|  |  | performed:  | ☐ Yes, unplanned due to surgical comp   | lication   |
|  |  |   | ☐ Yes, unplanned due to unsuspected d   |  |
|  |  |   | □ No  | iscuse of unatomy  |
|  |  |   | (If 'Yes' complete K3)  |  |
|  |  | Pulmonic Valve Procedure  | ☐ Yes, planned  |  |
|  |  | 1   |   | 1:4:   |
|  |  | performed:  | ☐ Yes, unplanned due to surgical comp   |  |
|  |  |   | ☐ Yes, unplanned due to unsuspected d   | isease or anatomy  |
|  |  |   | □ No  |  |
|  |  |   | (If 'Yes' complete K4)  |  |
|  |  | Did the surgeon provide input for   | valve surgery data abstraction?   Yes   | No   |
| Mechanical Assist Device/Ventricular   | Assist Device  | : ☐ Yes ☐ No (If 'Yes" comple   | ete section L)  |  |
| (Present on Admission/Implanted/Expl   | anted)   | •   |   |  |
| Other Cardine Procedure except Afile   | Uoc nlan   | and   |   |  |
| Other Cardiac Procedure, except Afib: ☐ Yes, unpla ☐ No  | nned due to s  | ned<br>argical complication<br>anned due to unsuspected disease   | or anatomy  |  |
| ☐ Yes, unpla   | nned due to s  | urgical complication  | or anatomy  |  |
| ☐ Yes, unpla   | nned due to si  ☐ Yes, unpl  | urgical complication anned due to unsuspected disease   | or anatomy  |  |
| $\square$ Yes, unpla $\square$ No $(\operatorname{If} \operatorname{Yes} \to) (\operatorname{Complete Section} M)$ Afib Procedure : $\square$ Yes $\square$ No (If Yes $-$   | nned due to sı ☐ Yes, unpl  →) (Complete S   | argical complication anned due to unsuspected disease Section M 1)  |   |  |
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|  | nned due to si ☐ Yes, unpl  →) (Complete 5  vide input fo  | argical complication anned due to unsuspected disease  Section M 1)  r Afib data abstraction?  Yes  |   | plete Section M 3)   |
| ☐ Yes, unpla ☐ No (If Yes →) (Complete Section M)  Afib Procedure : ☐ Yes ☐ No (If Yes →  (If Yes →) Did the surgeon pro  Other Cardiac Procedure, Congenital P  | nned due to si ☐ Yes, unpl  →) (Complete \$  vide input fo  rocedure (Exception of the content o | argical complication anned due to unsuspected disease  Section M 1)  r Afib data abstraction? ☐ Yes ☐  cept Unicuspid, Bicuspid, Quadric  | □ No  | plete Section M 3)   |
| ☐ Yes, unpla ☐ No (If Yes →) (Complete Section M)  Afib Procedure : ☐ Yes ☐ No (If Yes →  (If Yes →) Did the surgeon pro  Other Cardiac Procedure, Congenital P  | nned due to si ☐ Yes, unpl  →) (Complete \$  vide input fo  rocedure (Exc  | argical complication anned due to unsuspected disease  Section M 1)  T Afib data abstraction? ☐ Yes ☐  Sept Unicuspid, Bicuspid, Quadric  →) (Complete Section N)   | □ No  uspid Valve):□ Yes □ No (If Yes →) (Com   | plete Section M 3)   |
| ☐ Yes, unpla ☐ No (If Yes →) (Complete Section M)  Afib Procedure : ☐ Yes ☐ No (If Yes →  (If Yes →) Did the surgeon pro  Other Cardiac Procedure, Congenital P  | nned due to si ☐ Yes, unpl  →) (Complete \$  vide input fo  rocedure (Exc  | argical complication anned due to unsuspected disease  Section M 1)  T Afib data abstraction? ☐ Yes ☐  Sept Unicuspid, Bicuspid, Quadric  →) (Complete Section N)   | □ No  uspid Valve):□ Yes □ No (If Yes →) (Com   | plete Section M 3)   |
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| ☐ Yes, unpla ☐ No (If Yes →) (Complete Section M)  Afib Procedure : ☐ Yes ☐ No (If Yes →  (If Yes →) Did the surgeon pro  Other Cardiac Procedure, Congenital P  | Anned due to single the surger with the surger to the surger with the surger to the surger with the surger to the  | argical complication anned due to unsuspected disease  Section M 1)  T Afib data abstraction? ☐ Yes ☐  Sept Unicuspid, Bicuspid, Quadric  →) (Complete Section N)   | □ No  uspid Valve):□ Yes □ No (If Yes →) (Com   | plete Section M 3)  5  |
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| □ Yes, unpla □ No (If Yes →) (Complete Section M)  Afib Procedure :□ Yes □ No (If Yes →  (If Yes →) Did the surgeon procedure, Congenital P  Other Cardiac Procedure, Congenital P  Other Non-Cardiac Procedure:□ Yes  Enter up to 10 CPT-1 Codes pertaining  1  6  OR Entry Date And Time:/_  OR Exit Date And Time:/_  General Anesthesia:□ Yes □ No  Skin Incision Start Date and Time:/  | nned due to so Yes, unpl  Yes, unpl  (Complete So Yes  | argical complication anned due to unsuspected disease  Section M 1)  T Afib data abstraction? ☐ Yes ☐  Sept Unicuspid, Bicuspid, Quadric  →) (Complete Section N)  y for which the data collection form   | uspid Valve): ☐ Yes ☐ No (If Yes →) (Community was initiated:  4  9  1-24 hr clock)  24 hr clock)  14 r clock)  Yes, prior to entering OR for this procedure  R for this procedure  No  No  No  No  No  No  No  No  No  N   | 5  |
| ☐ Yes, unpla ☐ No (If Yes →) (Complete Section M) Afib Procedure: ☐ Yes ☐ No (If Yes →  (If Yes →) Did the surgeon pro Other Cardiac Procedure, Congenital P  Other Non-Cardiac Procedure: ☐ Yes Enter up to 10 CPT-1 Codes pertaining  1  6 OR Entry Date And Time:/ OR Exit Date And Time:// General Anesthesia: ☐ Yes ☐ No  Skin Incision Start Date and Time: Skin Incision Stop Date and Time:  | nned due to si     Yes, unpl  Yes, unpl  (Complete Si  vide input for  rocedure (Exc  In No (If Yes)  to the surger  2.  7.  (If General Act)  (If General Act)  | argical complication anned due to unsuspected disease  Section M 1)  T Afib data abstraction? ☐ Yes ☐  Sept Unicuspid, Bicuspid, Quadric  →) (Complete Section N)  y for which the data collection form   | uspid Valve): ☐ Yes ☐ No (If Yes →) (Community was initiated:  4  9  1-24 hr clock)  24 hr clock)  14 r clock)  Yes, prior to entering OR for this procedure  ☐ No  Wy hh:mm - 24 hr clock)  Wy hh:mm - 24 hr clock)  | 5<br>10  |
| □ Yes, unpla □ No (If Yes →) (Complete Section M) Afib Procedure :□ Yes □ No (If Yes →  (If Yes →) Did the surgeon pro Other Cardiac Procedure, Congenital P  Other Non-Cardiac Procedure:□ Yes Enter up to 10 CPT-1 Codes pertaining  1 6  OR Entry Date And Time:/_ General Anesthesia:□ Yes □ No  Skin Incision Start Date and Time: Skin Incision Stop Date and Time: Appropriate Antibiotic Selection: ++□ □ Exclusion  | nned due to si I Yes, unpl  Yes, unpl  (Complete Si  vide input for  rocedure (Exc I No (If Yes to the surger 2.  7.  (If General Act I General Act I I J I J I J I J I J I J I J I J I J I  | argical complication anned due to unsuspected disease  Section M 1)  T Afib data abstraction? ☐ Yes ☐  Sept Unicuspid, Bicuspid, Quadric  →) (Complete Section N)  y for which the data collection form   | uspid Valve): ☐ Yes ☐ No (If Yes →) (Community was initiated:  4  9  1-24 hr clock)  24 hr clock)  14 r clock)  Yes, prior to entering OR for this procedure  ☐ No  Wy hh:mm - 24 hr clock)  Wy hh:mm - 24 hr clock)  | 5  |
| □ Yes, unpla □ No (If Yes →) (Complete Section M) Afib Procedure :□ Yes □ No (If Yes →  (If Yes →) Did the surgeon pro Other Cardiac Procedure, Congenital P  Other Non-Cardiac Procedure:□ Yes Enter up to 10 CPT-1 Codes pertaining  1 6  OR Entry Date And Time:/_ General Anesthesia:□ Yes □ No  Skin Incision Start Date and Time: Appropriate Antibiotic Selection: ++□ □ Exclusion Temperature Measured:□ Yes □ No  | nned due to si ☐ Yes, unpl  →) (Complete Si  vide input for  rocedure (Exc ☐ No (If Yes to the surger 2  | argical complication anned due to unsuspected disease  Section M 1)  T Afib data abstraction? ☐ Yes ☐  Sept Unicuspid, Bicuspid, Quadric  →) (Complete Section N)  y for which the data collection form   | uspid Valve): ☐ Yes ☐ No (If Yes →) (Come m was initiated:  4   | 5  10  dure  dure  dure  dure  |
| □ Yes, unpla □ No (If Yes →) (Complete Section M) Afib Procedure :□ Yes □ No (If Yes →  (If Yes →) Did the surgeon pro Other Cardiac Procedure, Congenital P  Other Non-Cardiac Procedure:□ Yes Enter up to 10 CPT-1 Codes pertaining  1 6  OR Entry Date And Time:/_ General Anesthesia:□ Yes □ No  Skin Incision Start Date and Time: Skin Incision Stop Date and Time: Appropriate Antibiotic Selection: ++□ □ Exclusion  | nned due to si ☐ Yes, unpl  →) (Complete Si  vide input for  rocedure (Exc ☐ No (If Yes to the surger 2  | argical complication anned due to unsuspected disease  Section M 1)  r Afib data abstraction? ☐ Yes ☐  cept Unicuspid, Bicuspid, Quadric  →) (Complete Section N)  y for which the data collection form   | uspid Valve): ☐ Yes ☐ No (If Yes →) (Come m was initiated:  4   | 5  10  dure  dure  dure  bic Discontinuation: ++□ Yes  Bladder                               |
| □ Yes, unpla □ No (If Yes →) (Complete Section M) Afib Procedure :□ Yes □ No (If Yes →  (If Yes →) Did the surgeon pro Other Cardiac Procedure, Congenital P  Other Non-Cardiac Procedure:□ Yes Enter up to 10 CPT-1 Codes pertaining  1 6  OR Entry Date And Time:/_ General Anesthesia:□ Yes □ No  Skin Incision Start Date and Time: Appropriate Antibiotic Selection: ++□ □ Exclusion Temperature Measured:□ Yes □ No  | nned due to si ☐ Yes, unpl  →) (Complete Si  vide input for  rocedure (Exc ☐ No (If Yes to the surger 2  | argical complication anned due to unsuspected disease  Section M 1)  r Afib data abstraction? ☐ Yes ☐  cept Unicuspid, Bicuspid, Quadric  →) (Complete Section N)  y for which the data collection for  | uspid Valve): ☐ Yes ☐ No (If Yes →) (Come m was initiated:  4   | 5  10  dure  dure  bic Discontinuation: ++□ Yes  Bladder □Jugular-Venous                     |
| □ Yes, unpla □ No (If Yes →) (Complete Section M) Afib Procedure :□ Yes □ No (If Yes →  (If Yes →) Did the surgeon pro Other Cardiac Procedure, Congenital P  Other Non-Cardiac Procedure:□ Yes Enter up to 10 CPT-1 Codes pertaining  1 6  OR Entry Date And Time:/_ General Anesthesia:□ Yes □ No  Skin Incision Start Date and Time: Appropriate Antibiotic Selection: ++□ □ Exclusion Temperature Measured:□ Yes □ No  | nned due to si ☐ Yes, unpl  →) (Complete Si  vide input for  rocedure (Exc ☐ No (If Yes to the surger 2  | argical complication anned due to unsuspected disease  Section M 1)  r Afib data abstraction? ☐ Yes ☐  cept Unicuspid, Bicuspid, Quadric  →) (Complete Section N)  y for which the data collection for  | uspid Valve): ☐ Yes ☐ No (If Yes →) (Come m was initiated:  4   | 5  10  dure  dure  bic Discontinuation: ++□ Yes  Bladder □Jugular-Venous                     |
| □ Yes, unpla □ No (If Yes →) (Complete Section M) Afib Procedure :□ Yes □ No (If Yes →  (If Yes →) Did the surgeon pro Other Cardiac Procedure, Congenital P  Other Non-Cardiac Procedure:□ Yes Enter up to 10 CPT-1 Codes pertaining  1 6  OR Entry Date And Time:/_ General Anesthesia:□ Yes □ No  Skin Incision Start Date and Time: Appropriate Antibiotic Selection: ++□ □ Exclusion Temperature Measured:□ Yes □ No  | nned due to si ☐ Yes, unpl  →) (Complete Si  vide input for  rocedure (Exc ☐ No (If Yes to the surger 2  | argical complication anned due to unsuspected disease | uspid Valve): ☐ Yes ☐ No (If Yes →) (Come m was initiated:  4   | 5  10  dure  dure  bic Discontinuation: ++□ Yes  Bladder □Jugular-Venous                     |
| □ Yes, unpla □ No (If Yes →) (Complete Section M) Afib Procedure :□ Yes □ No (If Yes →  (If Yes →) Did the surgeon pro Other Cardiac Procedure, Congenital P  Other Non-Cardiac Procedure:□ Yes Enter up to 10 CPT-1 Codes pertaining  1 6  OR Entry Date And Time:/_ General Anesthesia:□ Yes □ No  Skin Incision Start Date and Time: Appropriate Antibiotic Selection: ++□ □ Exclusion Temperature Measured:□ Yes □ No  | nned due to si ☐ Yes, unpl  →) (Complete Si  vide input for  rocedure (Exc ☐ No (If Yes to the surger 2  | argical complication anned due to unsuspected disease | uspid Valve): ☐ Yes ☐ No (If Yes →) (Come m was initiated:  4   | 5  10  dure  dure  be Discontinuation: ++□ Yes  Bladder □Jugular-Venous                      |
| □ Yes, unpla □ No (If Yes →) (Complete Section M) Afib Procedure :□ Yes □ No (If Yes →  (If Yes →) Did the surgeon procedure, Congenital P  Other Cardiac Procedure, Congenital P  Other Non-Cardiac Procedure:□ Yes Enter up to 10 CPT-1 Codes pertaining  1 6  OR Entry Date And Time:/_ General Anesthesia:□ Yes □ No  Skin Incision Start Date and Time: Skin Incision Stop Date and Time: Appropriate Antibiotic Selection: ++□ □ Exclusion Temperature Measured:□ Yes □ No | nned due to si ☐ Yes, unpl  →) (Complete Si  vide input for  rocedure (Exc ☐ No (If Yes to the surger 2  | argical complication anned due to unsuspected disease | □ No  uspid Valve):□ Yes □ No (If Yes →) (Common was initiated:  □ 4. □ 9. □ 1-24 hr clock)  24 hr clock) ++  on □ Yes □ No □ Yes, prior to entering OR for this procedure □ No  yy hh:mm - 24 hr clock)  stration Timing: □ Appropriate Antibioticular No □ Exclusion □ Seophageal □ CPB venous return □ Nasopharyngeal □ Tympanic □ Rectal □ Oxygenator arterial outlet blood (CBP Ar □ Other □ Unknown   | 5  10  dure  dure  dure  dic Discontinuation: ++□ Yes  Bladder □Jugular-Venous terial blood) |

| Perfusion Strategy                           |   | (If Cambinati    | n ))                           | on Dione D Di. 1  | Timplemed (ISII 1 11)  |
|--|---|------------------|--------------------------------|---|--|
|  | ☐ Combination   | (If Combinatio   | ,                              |   | ☐ Unplanned (If Unplanned↓)  |
|  |   |                  | Unplanned                      |   | /visualization ☐ Bleeding<br>te size/ diffuse disease of distal vessel |
|  |   |                  |                                |   | namic instability (hypotension/arrhythmias)                            |
|  | □ Full  |                  |                                | ⊔ Conduit q   | uality and/or trauma   |
|  |   |                  | Bypass", "Combination"         |   |  |
|  |   | Arterial Cann    | ulation Insertion Site:        | (Select all that apply $\Psi$ )   |  |
|  |   | ☐ Aortic         | □ Axillary                     | □ Femoral   | ☐ Innominate ☐ Other   |
|  |   | Venous Cann      | ulation Insertion Site:        | (Select all that apply $\psi$ )   |  |
|  |   | □ Femoral        | □ Pulmonary Vein               | □ Jugular   | □SVC   |
|  |   | □ Rt. Atrial     | □ Lt. Atrial                   | □ Other   |  |
|  |   | Cardiopulmo      | nary Bypass Time (mi           | nutes):   | _  |
| Circulatory Arrest:                          | Lowest Hematocrit du  | ring CPB:        |                                |   |  |
| (If Circulatory Arrest = Yes→)               | Circulatory Arrest Wit  | hout Cerebral    |                                |   |  |
| ,  | Circulatory Arrest Wit<br>(If Circ Arrest w/ Cerebra                                |                  |                                | (min)   |  |
|  | Perfusion = $Yes \rightarrow$ )   | Cerebral Per     | rfusion Type:   Ante           | grade   Retrograde  | ☐ Both antegrade and retrograde  |
| (If Circulatory Arrest = Yes→)               | Total Circulatory Arre  |                  |                                |   |  |
| ŕ  | Cooling Time prior to   |                  | mins                           |   |  |
| Aortic Occlusion:                            | ☐ None – beatii<br>☐ None – fibrill   |                  |                                | ☐ Aortic Cross clamp ☐ Balloon Occlusion  |  |
|  | (If "Aortic cross c   |                  | on occlusion" $\rightarrow$ ): | Cross Clamp Time:   | (min)  |
| Cardioplegia Delive                          | •   | •                | tetrograde  Both               | ·   |  |
| Cerebral Oximetry                            | (If "Antegrade", "<br>Used: ☐ Yes ☐ No  | Retrograde" or " | Both"→) Type of Card           | ioplegia used: 🗀 Blood  | ☐ Crystalloid ☐ Both ☐ Other   |
| Intraop Blood Prod                           | ucts: 🗆 Yes 🗆 No, <mark>No</mark>   | t Given □Pation  |                                |   |  |
|  | d Blood Cell Units:<br>sh Frozen Plasma/ <mark>Plasm</mark>                         |                  | Platelet Dose Pa               |   |  |
|  |   |                  |                                | IBA ☐ Yes, Composite  | □ No   |
| Intraop Prothrombia                          | n Complex concentrate:  | ☐ Yes ☐ No       | <u> </u>                       |   |  |
| •  | orinolytic Medication gi  |                  |                                |   |  |
|  |   | ·                |                                |   |  |
|  | (If Yes →) Intraop Antifi   | brinolytic Med   | lication (select all that      | apply): ☐ Epsilon Amin  | o-Caproic Acid  Tranexamic Acid  Aprotinin                             |
|  | Performed post procedu  |                  | No (If Yes ↓)                  |   |  |
|  | thest level aortic insuffictions □Trivial/Trace □                                   |                  | arata 🗆 Savara 🗆 No            | t Documented  |  |
|  | an Aortic Gradient:   |                  | erate in Severe in No          | t Documented  |  |
|  | rtic Paravalvular leak:   |                  |                                |   |  |
|  | lo Prosthetic Valve ⊔ N<br>ghest level Mitral insuffi                               |                  | ll/Trace ⊔ Mild ⊔ M            | loderate □ Severe □ No  | ot Documented  |
| <u> </u>                                     | None □Trivial/Trace □   |                  | derate □ Severe □ No           | ot Documented   |  |
|  | an Mitral Gradient:<br>ral Paravalvular leak:                                       | <del></del>      |                                |   |  |
|  |   | Ione □ Trivia    | l/Trace □ Mild □ M             | oderate □ Severe □ No   | ot Documented  |
| Hig  | hest level Tricuspid inst   | ufficiency foun  | ıd:                            |   |  |
|  | None □Trivial/Trace □<br>an Tricuspid Gradient:_                                    |                  | erate ⊔ Severe ⊔ No            | t Documented  |  |
| Tric   | cuspid Paravalvular leak  | :                |                                |   |  |
|  | No Prosthetic Valve □ Notion Fraction Measured                                      |                  |                                | $(\text{Indersteen } \square \text{ Severe } \square \text{ Not } \square \text{ Severe } \square \text$ |  |
|  | y a planned PCI: \(\sime\) Yes  |                  | C. L. 103 L. 110 (II           | 103 / Ejection Fla  |  |
|  | <u>-                                      </u>                                      |                  |                                |   |  |
| J. Coronary Bypa                             |   |                  |                                |   |  |
| (If Coronary Artery By<br>Internal Mammary A | $\sqrt{\text{pass}} = \text{Yes} \downarrow$ )<br>Artery (arteries) used: $\square$ | Ves □ No         |                                |   |  |
| ++   |   |                  |                                |   |  |
| (1   | If Yes→) Left IMA: □  | Yes, pedicle     | ☐ Yes, skeletonized            | l □ No <mark>/NA</mark>   |  |

|  | Right IMA: ☐ Yes, pedicle     | e □ Yes, skele     |  |  |  |  |
|--|-------------------------------|--------------------|--|--|--|--|
| (If No→)                                   | Reason for no IMA             |                    | ☐ Subclavian stenosis                        | ☐ Previous<br>mediastinal<br>radiation | ☐ No (bypassable LAD disease   | e)   |
|  |                               |                    | ☐ Previous<br>cardiac or thoracic<br>surgery | ☐ Emergent or salvage procedure        | Other-<br>acceptable STS<br>provided exclusion<br>(See Training<br>Manual) | Other not acceptable STS exclusion (See Training Manual) |
| Distal Anastomoses with Arte               | rial Conduit(s)               | Го                 |  |  | ivianuai)  | ivianuai)  |
|  |                               |                    |  |  |  |  |
| (If yes→) Total Number o                   | f Distal Anastomoses with A   | Arterial Conduits  | s:   |  |  |  |
| Distal Anastomo                            | oses with Radial Artery Con   | duit(s) □ Yes [    | □ No (If ves→) Tota                          | l Number of Distal An                  | astomoses with rad   | dial artery conduits:                                    |
|  |                               |                    | Radi   | ial Artery Harvest and                 | Prep Time:   | (minutes)  |
| Distal Anastomoses with Ven                | ous Conduit(s) used: ☐ Yes    | □ No (If yes→      |  | of Distal Anastomoses                  |  |  |
|  |                               |                    | _  | n Harvest and Prep Ti                  |  | ninutes)   |
| Proximal Technique: Singl                  |                               |                    | p ☐ Anastomotic A                            | Assist Device                          | ne   |  |
| CABG Grid Key: (Refer to                   | Data Specifications for Har   | vest Codes)        |  |  |  |  |
| Proximal Site: 1=Aorta 2                   | =T graft off artery 3=T graft | aft off vein 4=    | =In-situ IMA 5=Oth                           | <mark>ier</mark>                       |  |  |
|  | A CAMON O                     | L A D (2 D)        | 1 4 D . I .                                  | 1'                                     |  | 1 7 DC1 0 DD1  |
| <b>Distal Site:</b> 1=Left Main Co         | oronary Artery (LMCA) 2=      | LAD $3 = D1ago$    | nai 4=Ramus interm                           | ledius 5=Circumflex                    | 6=Obtuse Margi   | nal 7= RCA 8=PDA   |
| 9=Posterior La                             | teral 10. Acute Marginal 11   | . None             |  |  |  |  |
| Distal Americansis Condu                   | the 1 In sites IMA O Fore     | IMA 2 Main         | 4. D 1:-1                                    | 5 Od                                   |  |  |
| Distal Anastomosis Condu                   | it: 1=in-situ iviA 2=free     | IMA 3=vein         | 4=Radial artery                              | 5=Other                                |  |  |
| Please use the key above and               | enter one (Refer to Data Spe  | ecifications for I | Harvest Codes)                               |  |  |  |
|  |                               |                    |  | Distal                                 | Position   | En doutous et a may                                      |
| Graft Number                               | Proximal Site                 | Distal Site        | Conduit                                      | Distai                                 | POSITION   | Endarterectomy   |
| □1   | 1-5 (drop downs)              | 1-11               | 1-5  | ☐ Side to Side                         | ☐ End to Side  | ☐ Yes□No   |
|  | 1 5 (drop downs)              | 1 11               | 1.0  | in side to side                        | in the place   | 2 1052110  |
| #2   | 1-5                           | 1-11               | 1-5  | ☐ Side to Side                         | ☐ End to Side  | □ Yes□No   |
| ☐ Additional Grafts ☐ No Additional Grafts |                               |                    |  |  |  |  |
| = 110 radiional Grans                      |                               |                    |  |  |  |  |
| #3   | 1-5                           | 1-11               | 1-5  | ☐ Side to Side                         | ☐ End to Side  | □ Yes□No   |
| ☐ Additional Grafts ☐ No Additional Grafts |                               |                    |  |  |  |  |
| ino Additional Grants                      |                               |                    |  |  |  |  |
| #4   | 1-5                           | 1-11               | 1-5  | ☐ Side to Side                         | ☐ End to Side  | □ Yes□No   |
| ☐ Additional Grafts ☐ No Additional Grafts |                               |                    |  |  |  |  |
| □ No Additional Grans                      |                               |                    |  |  |  |  |
| #5   | 1-5                           | 1-11               | 1-5  | ☐ Side to Side                         | ☐ End to Side  | ☐ Yes ☐No  |
| □ Additional Grafts                        |                               |                    |  |  |  |  |
| ☐ No Additional Grafts                     |                               |                    |  |  |  |  |
| #6   | 1-5                           | 1-11               | 1-5  | ☐ Side to Side                         | ☐ End to Side  | □ Yes□No   |
| □Additional Grafts                         |                               |                    |  |  |  |  |
| ☐ No Additional Grafts                     |                               |                    |  |  |  |  |
| #7   | 1-5                           | 1-11               | 1-5  | ☐ Side to Side                         | ☐ End to Side  | □ Yes□No   |
| ☐Additional Grafts                         | -                             |                    |  |  |  |  |
| ☐ No Additional Grafts                     |                               |                    |  |  |  |  |
| #8   | 1-5                           | 1-11               | 1-5  | ☐ Side to Side                         | ☐ End to Side  | □ Yes□No   |
| □Additional Grafts                         | 1.0                           |                    | 13   | _ Side to Side                         |  | _ 103_110  |
| ☐ No Additional Grafts                     |                               |                    |  |  |  |  |
| #9   | 1-5                           | 1-11               | 1-5  | ☐ Side to Side                         | ☐ End to Side  | □ Yes□No   |
| #9 □Additional Grafts                      | 1-3                           | 1-11               | 1-3  | Li side to side                        | in End to side   | LI TESLINO   |
| ☐ No Additional Grafts                     |                               |                    |  |  |  |  |

|   |  |                         |  |   |                               | _  |
|---|--|-------------------------|--|---|-------------------------------|--|
| #10<br>□Additional Grafts                         | 1-5  | 1-11                    | 1-5                                    | ☐ Side to Side  | ☐ End to Side                 | □ Yes□No   |
| ☐ No Additional Grafts                            |  |                         |  |   |                               |  |
| K. Valve Surgery Explan                           |  |                         |  |   |                               |  |
| If Valve Explanted (ValExp) First Valve Prosthesi |  |                         |  |   |                               |  |
| Explant Position:                                 | ☐ Aortic ☐ Mitral  | I □ Tricuspid □         | Pulmonic                               |   |                               |  |
| Explant Type:                                     | ☐ Mechanical Valve   | -                       |  | ] Homograft   | ☐ Autogra                     | <mark>ft</mark>  |
|   | ☐ Annuloplasty De  | vice 🗆 Leaflet Cl       | ip $\Box$                              | Transcatheter Valve   |                               | theter Valve in Valve  |
|   | □ Other  | ☐ Unknown               |  |   | with prosth                   | etic valve   |
| Explant Etiology:                                 | ☐ Endocarditis   | ☐ Incompete             |  | Prosthetic Deterioration  |                               | <mark>us</mark>  |
|   | ☐ Failed Repair<br>☐ Hemolysis   | ☐ Pannus<br>☐ Paravalvu |  | <ul><li>Sizing/Positioning issu</li><li>Stenosis</li></ul>  |                               |  |
|   | ☐ Hemolysis  | □ Paravaivu             | iar ieak L                             | 1 Stenosis  | ☐ Unknow                      | /n   |
| $(If Yes \rightarrow)$                            | own: □ Yes □ No Explan   |                         | U                                      | nique Device Identifier   | (UDI):                        |  |
| Year of Implant K                                 | nown: ☐ Yes ☐ No (If Yes→  | Year:                   |  |   |                               |  |
| Second Valve Prosth                               | esis Explant:   Yes   No (   | If Yes↓)                |  |   |                               |  |
| Explant Position:                                 | ☐ Aortic ☐ Mitral  | I □ Tricuspid □         | Pulmonic                               |   |                               |  |
| Explant Type:                                     | ☐ Mechanical Valve   | e 🗆 Biopro              | sthetic Valve                          | ☐ Homograft   | ☐ Autograft                   |  |
|   | ☐ Annuloplasty De  | vice □ Leaflet          | Clip                                   | ☐ Transcatheter<br>Valve  | ☐ Transcathet prosthetic valv | er Valve in Valve with<br>e  |
|   | ☐ Other  | ☐ Unkno                 | wn                                     |   |                               |  |
| Explant Etiology:                                 | ☐ Endocarditis<br>☐ Failed Repair<br>☐ Hemolysis   |                         | petence<br>Formation<br>Ivular leak    | ☐ Prosthetic Deterio☐ Sizing/Positioning☐ Stenosis☐ Stenosis☐ Stenosis☐ Prosthetic Deterion ☐ Prosthetic Deterior ☐ Prosthetic ☐ Prostheti |                               | er   |
|   | own: □ Yes □ No  | Explant model#:_        |  | Unique Device I   | dentifier (UDI):_             |  |
| Year of Implant K                                 | $\stackrel{s\rightarrow)}{\text{nown}}$ : $\square$ Yes $\square$ No (If Yes $\rightarrow$ | Year:                   |  |   |                               |  |
| Third Valve Prosthes                              | is Explant:  | Yes↓)                   |  |   |                               |  |
| Explant Positing                                  | ☐ Aortic ☐ Mitra   | l □ Tricuspid □         | Pulmonic                               |   |                               |  |
| Explant Type:                                     | ☐ Mechanical Valve   | Biopro                  | osthetic Valve                         | ☐ Homograft   |                               | Autograft  |
|   | ☐ Annuloplasty De  | vice                    | t Clip                                 | ☐ Transcatheter \   |                               | Franscatheter Valve in ve with prosthetic valve  |
|   | ☐ Other  | □ Unkno                 | own                                    |   |                               | The state of the s |
| Explant Etiology                                  | ☐ Endocarditis☐ Failed Repair☐ Hemolysis   |                         | petence<br>s Formation<br>llvular leak | ☐ Prosthetic Dete<br>☐ Sizing/Position<br>☐ Stenosis  | ing issue 🔲 (                 | Thrombus<br>Other<br>Unknown   |
| Explant Device kn<br>(If Yes→)                    | own: 🗆 Yes 🗀 No  | Explant model#:_        |  | Unique Device   | Identifier (UDI):             |  |
|   | nown: ☐ Yes ☐ No (If Yes→  | Year:                   |  |   |                               |  |
| K. 1. Aortic Valve without                        | concomitant Aorta Procedu  | ure                     |  |   |                               |  |
| If AVAortaProcPerf = 'No'                         | $\downarrow$   |                         |  |   |                               |  |
| Procedure Performed:                              |  |                         |  |   |                               |  |
| □Replacement: (If Rep                             |  |                         |  |   |                               |  |
|   | alve Replacement: ☐ Yes ☐ proach: ☐ Transapical ☐  |                         | ransfemoral [                          | Transportic   Subcla  | vian Trans                    | iliac □ Transeptal □   |
| Tra   | nscarotid ☐ Transcaval☐ (  | Other                   | ransiciliotal L                        | i iransaorue 🗀 Subela   | vian 🗀 ITalis                 | mae in manseptar L   |
| Surgical valve R                                  | eplacement:   Yes   No ()  |                         |  |   | (O. 11) = 0.5                 |  |
|   | Device type: $\square$ Mech  | anıcaı 🗀 Bıoprosth      | ietic 🗀 Surgeoi                        | n tashioned pericardium   | .(∪zaki) ⊔ Oth                | er   |

| I)  | if Bioprosthetic→ Valve type: □  | Stented               | ☐ Stentless sub co                   | oronary valv               | ve only □ Sutur            | eless/rapid deployment  |
|---|--|-----------------------|--------------------------------------|----------------------------|----------------------------|---|
|   | ion (If Repair/Reconstruction, sele                                    |                       |                                      |                            | ,                          | 1 1 3   |
| Repair Type (S                              | elect all that apply)+   |                       |                                      |                            |                            |   |
|   | Commissural suture annuloplasty  |                       | □Nodular releas                      | e                          | □Leaflet resecti           | on suture   |
|   | Leaflet plication  |                       | □Leaflet shaving                     | <u> </u>                   | □Leaflet pericar           | rdial patch   |
|   | Leaflet commissural resuspension                                       |                       | □Leaflet debride                     |                            | □Division of fu            | •   |
|   | Leaflet free edge reinforcement  |                       |                                      |                            |                            | asty internal ring  |
| _   |  |                       | ring                                 |                            |                            |   |
| L   | □External suture annuloplasty  |                       | □Pannus/Throm                        | bus Remov                  | al (Native Valve)          |   |
| ☐ Surgical Prosthet                         | ic Valve Intervention (Not Explant                                     | t of Valve)           | : (Select All That A                 | Apply ↓)                   |                            |   |
| Type of In                                  | ntervention: □Repair of periprosthe                                    | etic leak 🗆           | Removal of pan                       | nus 🗆 Rem                  | oval of clot □C            | Other Control of the |
| Aortic annular enlargemen                   | nt: □ Yes □ No (If 'Yes' ↓)  |                       |                                      |                            |                            |   |
|   | e: ☐ Nicks-Nunez ☐ Manougian   | n 🗆 Kon               | nno 🗆 Other                          | ☐ Unknow                   | /n                         |   |
|   | nary sinus (Modified Wheat/Modifi                                      |                       |                                      |                            | , II                       |   |
|   | pair Device Implant:   Yes   No  |                       |                                      | <u> </u>                   |                            |   |
| Implant Model Num                           | ber:   |                       |                                      | nt Size:                   |                            |   |
| Unique Device identif                       | fier (UDI):  |                       |                                      |                            |                            |   |
| K. 2. Mitral Valve Proceed                  | dure   |                       |                                      |                            |                            |   |
| If Mitral Valve Procedur                    | $e Performed = Yes \downarrow$   |                       |                                      |                            |                            |   |
| Procedure Performed:  ☐ Repair (If Repair↓) |  |                       |                                      |                            |                            |   |
|   | oroach:  Surgical Transcathet  | ter                   |                                      |                            |                            |   |
|   | (Select all that apply↓)   | _                     |                                      |                            |                            |   |
|   | □Annuloplasty  |                       | resection                            | □Neocho                    | rds (PTFE)                 | □Chordal transfer   |
|   | ☐Annular decalcification/  | □Leaflet<br>extension | t<br>n/replacement                   | □Edge to                   | edge repair                | ☐Leaflet plication  |
|   | debridement  | patch                 | и терисеннени                        | Luge to                    | eage repair                | Electrication   |
|   | ☐Mitral commissurotomy   | □Mitral               |                                      | ☐Mitral c                  |                            | ☐ Pannus/Thrombus removal (native   |
|   |  | commissi              |                                      | (scallop cl                |                            | valve) ction□Posterior Resection□ Both  |
|   |  |                       |                                      |                            | ect all that apply):       |   |
|   | (If Leaflet R  | esection -            |                                      |                            | lar Alone 🗆 Qua            | drangular Alone   |
|   | (II Leaflet K  | CSCCIIOII             | 7                                    |                            |                            | esection with Sliding Valvuloplasty   |
|   |  |                       |                                      |                            | □ Re                       | esection with Folding Valvuloplasty<br>her  |
|   | (If Neochoro   | ds (PTFE)             | → □ Anterior                         | ☐ Posterio                 | r □ Both □ Not I           |   |
|   | (If Chordal  |                       |                                      |                            |                            | Chordal transfer□Not Documented   |
|   | (If Leaflet extension/replacem   | ent patch-            | →) Patch Locati                      | on: Ante                   | rior   Posterior           | ☐ Both ☐ Not Documented   |
| ☐ Replacement (If Re                        | r attempted prior to replacement: [                                    | ∃Yes □1               | No                                   |                            |                            |   |
|   | ds preserved: ☐ Anterior ☐ Poster                                      |                       |                                      |                            |                            |   |
|   | er replacement: ☐ Yes ☐ No   |                       |                                      |                            |                            |   |
|   | ic Valve Intervention (Not Explant ervention:   Repair of periprosthet |                       |                                      |                            | moval of Clot              | Other   |
| Implant: ☐ Yes ☐ No (1                      |  | iic icak 🗀            | Removal of Fam                       | ilus 🗀 KC.                 | movar of Clot L            | Tother  |
|   | ☐ Mechanical valve   |                       | Transcatheter de                     |                            |                            |   |
|   | ☐ Bioprosthetic valve ☐ Annulopl                                       |                       | Transcatheter Re                     |                            |                            |   |
|   | Ring Surgical  3 Annuloplasty without ring                             |                       | Transcatheter Re<br>Annuloplasty Rin | piacement i<br>ng Transcat | Device (Trans-sej<br>heter | ptai)   |
|   | pericardial or suture)   |                       | Mitral Leaflet cli                   |                            |                            |   |
|   |  |                       | Other                                | CL + CI!                   | 1 1 1                      |   |
|   |  |                       | If Mitral L                          | eatiet Clip,               | number implante            | d:(enter 1-3)   |
| Implant Model Number                        |  |                       | Impla                                | nt Size:                   |                            |   |
| Unique Device identif                       |  |                       |                                      | Size:                      |                            |   |
| K.3. Tricuspid Valve Proc                   |  |                       |                                      |                            |                            |   |
| If Tricuspid Valve Proce                    |  |                       |                                      |                            |                            |   |
| Tricuspid Procedure Perfor                  | rmed   |                       |                                      |                            |                            |   |

| □ Re        | pair: (If Yes, select all that a                       |                              |                |             |                 |               |                         |   |  |
|-------------|--|------------------------------|----------------|-------------|-----------------|---------------|-------------------------|---|--|
|             |  | scatheter Clip/Device        |                |             |                 |               | oval (Native Valve)     |   |  |
|             | (If Annuloplasty→) Ty                                  | pe of Annuloplasty: L        | ⊒ Pericardium  | ⊔Suture     | ☐ Prostnetic Ri | ng ⊔ Pros     | thetic Band             |   |  |
|             |  |                              |                |             |                 |               |                         |   |  |
| □Rer        | olacement: (If Yes↓)                                   |                              |                |             |                 |               |                         |   |  |
|             | Transcatheter Replacement                              | ∷ □ Yes □ No                 |                |             |                 |               |                         |   |  |
| □Su         | rgical Prosthetic Valve Inter                          |                              |                |             |                 |               |                         |   |  |
|             | Type of Intervention: ☐ Re                             | epair of periprosthetic      | leak  Remo     | oval of Pan | nus 🗆 Remova    | al of Clot    | Other                   |   |  |
| Implant:    |  |                              |                | .1 .1       | T 7 1           |               | C.                      |   |  |
|             | Implant Type:  | ☐ Mechanical Valve           | e   🗆 B10      | prosthetic  | vaive           | ☐ Homo        | ogran                   |   |  |
|             | □ □ Transcatheter device □ Transcatheter Valve □ Other |                              |                |             |                 |               |                         |   |  |
|             | implanted open heart                                   |                              |                |             |                 |               |                         |   |  |
|             | Implant Model Number:                                  |                              | _ Size:        |             |                 |               |                         |   |  |
|             |  |                              |                |             |                 |               |                         |   |  |
|             | Unique Device Identifier (                             | UDI):                        | <b>I</b>       |             |                 |               |                         |   |  |
| Valve       | ectomy:   Yes   No                                     | ,                            |                |             |                 |               |                         |   |  |
|             | monic Valve Procedure                                  |                              |                |             |                 |               |                         |   |  |
|             | nic Valve Procedure Perfor                             | med = Yes ↓                  |                |             |                 |               |                         |   |  |
|             | e Performed:   |                              |                |             |                 |               |                         |   |  |
|             | air/Leaflet Reconstruction<br>nus or Thrombus removal  |                              |                |             |                 |               |                         |   |  |
|             | lacement (If   | Transcathet                  | er Replaceme   | nt: □ Ves   | П №             |               |                         |   |  |
| Ц Кер       | Replacem   |                              | ст керіасете   | iit. 🗀 103  |                 |               |                         |   |  |
| □ Valv      | vectomy  | )                            |                |             |                 |               |                         |   |  |
| Implant:    | $\square$ Yes $\square$ No (If Yes $\downarrow$ )      |                              |                |             |                 |               |                         |   |  |
|             | Implant Type:  | □Surgeon Fashi               | oned □Com      | mercially   | Supplied        |               |                         |   |  |
|             | (If Surgeon Fashion                                    | $\text{ned} \rightarrow$ ) N | Iaterial: □ PT | FE (Gore-   | Tex) ☐ Pericard | lium 🗆 Oth    | ner                     |   |  |
|             | (If Commercially S                                     | · ·                          | evice Type:    | (           | ☐ Mechanical    |               | ☐ Annuloplasty Device   |   |  |
|             | (ii commercially s                                     | арриса )                     | evice Type.    |             |                 | varve         | 2 initiatopiasty Bevice |   |  |
|             |  |                              |                |             | ☐ Bioprostheti  | c Valve       | ☐ Homograft             |   |  |
|             |  |                              |                |             | ☐ Transcathete  |               | □ Other                 |   |  |
|             |  |                              |                |             | Transcathete    | r device imp  | lanted open heart       |   |  |
|             | Implant Model Number:                                  |                              |                | Size:       |                 |               |                         |   |  |
|             | Unique Device Identifier (U                            | DI)·                         |                | 5120.       |                 |               |                         |   |  |
|             | Offique Device Identifier (O                           | DI)                          |                |             |                 |               |                         |   |  |
|             |  |                              |                |             |                 |               |                         |   |  |
| I Mool      | hanical Cardiac Assist D                               | ovioos                       |                |             |                 |               |                         |   |  |
|             | tic Balloon Pump (IABP):                               |                              |                |             |                 |               |                         |   |  |
| Initia 7101 | IABP Insertion: ☐ Preop                                |                              | op **          |             |                 |               |                         |   |  |
|             | 1  | 1                            | •              |             |                 |               |                         | - |  |
| ECMO:       | Yes No (If Yes \)                                      |                              |                |             |                 |               |                         |   |  |
|             |  |                              |                |             |                 |               |                         |   |  |
|             | ECMO Mode: ☐ Veno-ve                                   | nous ⊔ Veno-arteri           | al             | Arterial Ve | nous (VAV)      |               |                         |   |  |
|             | ECMO Initiated: ☐ Preop                                | n □ Intraon □ Pos            | ton □ Non-     | operative   | **              |               |                         |   |  |
| Temporar    | y Assist Device Used: ☐ Ye                             |                              | пор 🗀 топ      | орегиите    |                 |               |                         |   |  |
|             | •  | **                           |                |             |                 |               |                         |   |  |
|             | Position: Open Ca                                      | theter Based                 |                |             |                 |               |                         |   |  |
|             |  |                              |                |             |                 |               |                         |   |  |
|             | Type: □ RV □ LV □ I                                    | 31V                          |                |             |                 |               |                         |   |  |
|             | When Inserted: ☐ Preop                                 | □ Intraon □ Posto            | n **           |             |                 |               |                         |   |  |
| Was rati-   |  |                              | r              |             |                 |               |                         |   |  |
| vv as patie | ent admitted with VAD  Ye                              | S LINU                       |                |             |                 |               |                         |   |  |
|             | Insertion date:/_                                      | <br>hor:                     |                |             | IIDI.           |               |                         |   |  |
|             | Device Model Num                                       | ber:                         |                |             | ועט:            |               |                         |   |  |
|             | Previous VAD Expl                                      | anted During This Ad         | lmission:      |             | ☐ Yes, not du   | ring this pro | ocedure                 |   |  |
|             | TOTIONS THE EAP  | Zuring Tinis Mu              |                |             | ☐ Yes, during   |               |                         |   |  |
|             |  |                              |                |             | □ No            |               |                         |   |  |
| Ventricula  | ar Assist Device Implanted of                          | luring this hospitalizat     | tion 🗆 Yes 🗀   | l No        |                 |               |                         |   |  |
|             | o complete table below -will be                        |                              |                |             |                 |               |                         |   |  |

| Timing:                |   | (during same hospitalization and prical AD procedure (Not in conjunction w | or to OR trip for CV surgical procedur                                     | e)   |  |  |  |  |
|------------------------|---|--|--|--|--|--|--|--|
|                        |   | with CV surgical procedure (same to  |  |  |  |  |  |  |
|                        | 4. In conjunction   | with CV surgical procedure (same tr  | rip to the OR)- unplanned  |  |  |  |  |  |
| *****                  |   | (after surgical procedure during reo                                       |  |  |  |  |  |  |
| VAD<br>Implant         | <ol> <li>Bridge to Transaction</li> <li>Bridge to Record</li> </ol>                               |  | nt VAD (RVAD) <b>VAD</b> VAD (LVAD) <b>Explant</b>                         | Cardiac Transplant     Recovery  |  |  |  |  |
| Implant<br>Indication: | 3. Destination  |  |  |  |  |  |  |  |
| marcation.             | 4. Post cardiotom   |  |  | 4. Device-Related Infection  |  |  |  |  |
|                        | Failure   |  | al Artificial Heart  | 5. Device Malfunction  |  |  |  |  |
|                        | <ol><li>Device Malfund</li></ol>  | /  |  | 6. End of (device) Life  |  |  |  |  |
|                        | 6. End of (device)  | Life   |  |  |  |  |  |  |
|                        | 7. Salvage  |  |  |  |  |  |  |  |
| Device:                | See VAD list  |  |  |  |  |  |  |  |
| (If Yes, provide dat   | ta on up to 3 separate d  | levices implanted $\psi$ )   |  |  |  |  |  |  |
| VAD IMPLANT            | $\Gamma(\mathbf{s})$  | Initial implant  | 2nd device implanted? $\square$ Yes $\square$<br>No (If Yes $\downarrow$ ) | <b>3rd Device implanted?</b> $\square$ Yes $\square$ No (If Yes $\downarrow$ ) |  |  |  |  |
| Timing                 |   |  |  |  |  |  |  |  |
| Indication             |   |  |  |  |  |  |  |  |
| Type                   |   |  |  |  |  |  |  |  |
| Device                 |   |  |  |  |  |  |  |  |
| Implant Date           |   | //   | //   | _/_/   |  |  |  |  |
| UDI                    |   |  |  |  |  |  |  |  |
|                        |   | Initial explant  | 2nd device explanted?  | 3rd Device explanted   |  |  |  |  |
| VAD Explant(s)         |   | ☐ Yes, not during this procedure   | ☐ Yes, not during this procedure   | ☐ Yes, not during this procedure   |  |  |  |  |
| VIID Explain(s)        |   | ☐ Yes, during this procedure ☐ No  | ☐ Yes, during this procedure ☐ No  | ☐ Yes, during this procedure ☐ No  |  |  |  |  |
| Reason                 |   | 2110   |  |  |  |  |  |  |
|                        | g this procedure" or  |  |  |  |  |  |  |  |
| "Yes, during this p    | rocedure" →)  |  |  |  |  |  |  |  |
| Date                   | g this procedure" $\rightarrow$ )   | <u></u>  | //   | //   |  |  |  |  |
| (11 1 cs, not during   | g uns procedure /)  | L  |  |  |  |  |  |  |
| M Other Car            | diac Procedures   |  |  |  |  |  |  |  |
| (If Other Cardiac P    | rocedure Except Afib  | = Ves   ) See Proc ID Table to determine                                   | whether these procedures impact isolate p                                  | rocedure categories  |  |  |  |  |
|                        |   | cle ☐ Membrane ☐ Other ☐ Not   |  | roccure energones  |  |  |  |  |
| Subustite Stelles      | .5 11050001011. — 11105   |  | _ 1.0  |  |  |  |  |  |
| Pulmonary Thro         | mboembolectomy [  | ☐ Acute ☐ Chronic ☐ No   |  |  |  |  |  |  |
| r uninomary rimo       |   |  |  |  |  |  |  |  |
| Myocardial Sten        | n Cell Therapy: 🗆 🗅   | Yes □ No   | LV Aneurysm Repair: ☐ Yes  |  |  |  |  |  |
| Arrhythmia Dev         | ice:□ Pacemaker [   | ☐ Pacemaker with CRT ☐ ICD ☐   | ICD with CRT ☐ Implantable Record  | ler   None   |  |  |  |  |
| T 1T 2 1               | 77 77   |  |  |  |  |  |  |  |
| Lead Insertion: [      | ⊥ Yes ⊔ No  |  |  |  |  |  |  |  |
| T 15                   |   | 7.7. 1 11  | 1 🗆 🗸  |  |  |  |  |  |
| Lead Extraction:       | : ☐ Yes, planned 1  | ☐ Yes, unplanned due to surgical co  | mplication   | insuspected disease or anatomy ☐ No  |  |  |  |  |
|                        |   |  |  |  |  |  |  |  |
| Transmyocardial        | revascularization (T  | ſMR): □ Yes □ No   |  |  |  |  |  |  |
| Tumor:  Mvxo           | ma   Fibroelastom   | a □ Other □ No   |  |  |  |  |  |  |
| rumor. 🗀 wryxo         | ma 🗀 i iorociasiom  |  |  |  |  |  |  |  |
| Transplant Card        | iac : □ Yes □ No  |  |  |  |  |  |  |  |
| Transplant, Card       | inc . — 103 — 110   |  |  |  |  |  |  |  |
| Trauma, Cardiac        | :□ Yes □ No   |  |  |  |  |  |  |  |
|                        | epair:□ Yes □ No  |  |  |  |  |  |  |  |
| Other Cardiac Pr       | ocedure□ Yes □ N  |  |  |  |  |  |  |  |
|                        | $\operatorname{Ves} \square \operatorname{No} (\operatorname{If} \operatorname{Yes} \rightarrow)$ | ASD Repair Type: ☐ Congenita   | l (secundum)   |  |  |  |  |  |
| PFO Repair : 🗆 `       | Yes 🗆 No  |  |  |  |  |  |  |  |
|                        |   |  |  |  |  |  |  |  |
|                        | orillation Procedu  | ures   |  |  |  |  |  |  |
| (If If Afib Procedur   |   | ☐ Enjoardially applied acclusion do  | vice □ Epicardial Staple □ Epicardi  | al Suture   Findesperdial Suture   |  |  |  |  |
| Lan Aurai App          |   | eter Device In Existence   |  | ai Satare 🗀 Endocatulai Sutule   |  |  |  |  |
|                        |   |  | 14   |  |  |  |  |  |
|                        |   |  |  |  |  |  |  |  |

| Left Atrial Appendage A                              |  | _                              | l applied occlusion device -  No   | →   UDI:               |   | ·                               |  |
|--|--|--------------------------------|--|------------------------|---|---------------------------------|--|
|  | <mark>elect all that</mark><br>Radiofreque | <mark>apply) →</mark><br>ncy→) | □ Both □ None □ Radiofrequency  Bipolar □ Yes □ No                       |                        | and-sew   | Cryo                            |  |
| Lesions Documented: □                                |  | Atrial                         | select all that apply↓)  ☐ Yes ☐ No (If Yes, so all that apply →)        | ☐ Mitra ☐ Epica        | onary Vein Isolation  <br>al Line                   | ppendage line<br>Lesion         | ent procedure) □ Other                               |
|  |  |                                | $\square$ Yes $\square$ No (If Yes, sel all that apply $\rightarrow$ )   |                        | Line □ IVC Line □ cle Right Atrial Line             |                                 | etion Line<br>pendage Line                           |
| M.2. Aorta And Aorti<br>If AortProc = Yes ↓          | ic Root Pro                                | ocedures                       | •  |                        |   |                                 |  |
| Family history of disease Patient's genetic history: | of aorta:                                  |                                | rrysm □ Dissection<br>Fan □ Ehlers-Danlos I<br>ic Valve Morphology       | ☐ Loeys-Dietz          | ☐ Non-Specific famil                                |                                 | ☐ Unknown☐ None<br>syndrome                          |
| Prior aortic intervention:<br>Location               | ☐ Yes Previous location Select all the     | repair<br>n(s)                 | Unknown (If Yes↓) Repair Ty  Select all that                             |                        | Repair failure<br>(If Yes \)<br>Select all that app |                                 | Disease progression (If Yes ↓) Select all that apply |
| Root<br>(Zone 0 –A)                                  | □ Yes □ I                                  | No                             | □ Open □ Endovascu   | lar □ Hybrid           | □ Yes □ No  | □ Yes                           | □ No   |
| Ascending (Zone 0 – B&C)                             | □ Yes □ ì                                  | No                             | □ Open □ Endovascu   | lar □ Hybrid           | □ Yes □ No  | □ Yes                           | □ No   |
| Arch<br>(Zones 1,2,3)                                | □ Yes □ ì                                  | No                             | □ Open □ Endovascu   | lar □ Hybrid           | □ Yes □ No  | □ Yes                           | □ No   |
| Descending (Zones 4,5)                               | □ Yes □ ì                                  | No                             | □ Open □ Endovascu   | lar □ Hybrid           | □ Yes □ No  | □ Yes                           | □ No   |
| Suprarenal abdominal (Zones 6,7)                     | □ Yes □ ì                                  | No                             | □ Open □ Endovascu   | lar □ Hybrid           | □ Yes □ No  | □ Yes                           | □ No   |
| Infrarenal abdominal (Zone 8,9,10,11)                | □ Yes □ ì                                  | No                             | □ Open □ Endovascu   | lar □ Hybrid           | □ Yes □ No  | □ Yes                           | □ No   |
| Current Procedure with E                             | ndoleak invo                               |                                |  |                        |   | '                               |  |
|  |  | (It                            | (If Y  | $Tes \rightarrow Type$ | nent site: 🗆 Yes 🗆 No<br>I location: 🗖 Ia-proxi     | mal 🗆 Ib -distal 🗀              | l Ic- iliac occluder                                 |
|  |  |                                | • •  | •                      | g via branch vessel: □<br>ber of vessels: □ IIa: s  |                                 | · two vessels or more                                |
|  |  |                                | `  |                        | ct in graft: \(\sigma\) Yes \(\sigma\) N            | •                               | . two vessels of more                                |
|  |  |                                |  | Graft                  | defect type: ☐ IIIa: ju<br>b: endograft fractures o | nctional separation             | n of modular components                              |
|  |  |                                |  |                        | fabric – porosity: ☐ Y                              |                                 |  |
| Current Procedure with A                             | orta Infectio                              | n:                             |  | dotension - expa       | insion aneurysm sac w                               | ithout leak: ☐ Yes              | s ⊔ No   |
|  |  |                                | ☐ Yes ☐ No Aorta Infec   | tion Type:             |   |                                 |  |
|  |  |                                | (If Yes →) □ Graft inf   |                        | ular endocarditis 🛭 🗀 1                             | Nonvalvular endoc               | earditis □ Native aorta                              |
| Current Procedure with T                             |  |                                | ☐ Yes ☐ No   |                        |   |                                 |  |
| Current Procedure with 1                             | rauma:                                     |                                | l<br>□ Root  |                        |   |                                 |  |
|  | (If Yes, s                                 | elect all th                   | □ Ascendir □ Arch □ Descend: □ Abdomir                                   | ing □ Thoracoa         | bdominal  |                                 |  |
|  |  |                                | ☐ CHF ☐ Cardiac Arre   |                        | ☐ Infection ☐ Asymp                                 | otomatic Injury                 | y related to Surgical                                |
| Presenting Symptom:                                  | [  | □Neuro I                       | on<br>□ <mark>Unknown</mark><br>Deficit (If Yes↓)<br>□ Stroke □ Limb num | bness □ Paraly         | sis □ Hoarseness ( <mark>ac</mark>                  | <mark>ute</mark> vocal cord dys | function)  |
| Primary Indication:                                  | I  | ☐ Aneury                       | rsm □ Dissection □ Or  | ther                   |   |                                 |  |

| (if Aneurysm→)  | Rupture: ☐ Yes ☐ No (If Yes →) Contained rupture: ☐ Yes ☐ No  Location of Maximum Diameter: ☐ Below STJ ☐ STJ-midascending ☐ Midascending to distal ascending ☐ Zone 1 ☐ Zone 2 ☐ Zone 3 ☐ Zone 5 ☐ Zone 6 ☐ Zone 7 ☐ Zone 8 ☐ Zone 9 ☐ Zone 10 ☐ Zone 11  Timing: ☐ Hyperacute (<48 hrs) ☐ Acute (48hrs-<2weeks) ☐ Subacute (2weeks -<90 days) ☐ Chronic (90 days or more) ☐ Acute on Chronic ☐ Unknown  Dissection onset date known ☐ Yes ☐ No (If Yes →)  Date of onset: _ /_ / |   |   |  |  |  |  |  |
|---|--|---|---|--|--|--|--|--|
|   | Primary tear<br>location:<br>Proximal Dissec   |   | nidascending □ Midascer<br>Zone 3 □ Zone 4 □ Zone<br>□ No □ Unknown (If Y | ding to distal ascending 5 □ Zone 6 □ Zone 7 □ Z  Ves ↓)  nidascending □ Midascend | one 8 □ Zone 9 □ Zone 10 □ Zone 11 ing to distal ascending |  |  |  |
|   |  | : □ Zoı   | ow STJ   STJ-midascene  | ding  Midascending to dis  | stal ascending<br>6 □ Zone 7 □ Zone 8 □ Zone 9             |  |  |  |
|   | Stanford Classif   | ication: 🗆 Type A 🛮 Typ   | e B 🛘 Unknown 🗘 Other   |  |  |  |  |  |
| (if Dissection→)  | Retrograde disse   | ection caused by Aortic Ster  | nt 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 Type: (select a<br>Coronary<br>Right Common Carotid<br>Left Subclavian | ll that apply):  □Superior Mesenteric  □Renal. right  □Spinal             | ☐Right Subclavian ☐Left Common Carotid ☐Celiac                                     | □Renal, left □Iliofemoral                                  |  |  |  |
|   |  | ty Motor Function:   No d   |   | alysis   Unknown   |  |  |  |  |
|   |  | y Sensory Deficit: ☐ Yes ☐ ☐ No (If Yes ↓) Contained rupture:                       | □ Yes □ No  |  |  |  |  |  |
| $(if Other \rightarrow)$  |  |   | ☐ Zone 1 ☐ Zone 2 ☐ Zone 8 ☐ Zone 9 ☐ uction ☐ Intramural Hem             |  |  |  |  |  |
|   | Surgical Compli  | cation/Perforation   Traur  | <mark>na</mark>   |  |  |  |  |  |
|   |  |   |   |  |  |  |  |  |
| _   | ntomical Informa   |   |   |  |  |  |  |  |
| _   |  | sia: 🗆 Yes 🗆 No 🗆 Unkno   |   | a  | II. CEN  |  |  |  |
|   |  | Dilation: ☐ Yes ☐ No ☐ neurysm: ☐ Yes ☐ No  |   | ilation Location ☐ Right ☐   |  |  |  |  |
|   | ☐ Unknown (If  |   | SV Aneurysm l   | Location (select all that appl   | y→): ☐ Right ☐ Left ☐ Non-coronary                         |  |  |  |
| Arch Anomalie   | r ∏Yes □No   | (if yes, ↓)   |   |  |  |  |  |  |
| Arch Allomanc   | s Li i cs Li i i i   | (11 yes, \$)  |   |  |  |  |  |  |
|   | Arch Anomalies   | Type(s): select all that app  | <mark>ly</mark>   |  |  |  |  |  |
|   | □Arch Type Rig   | ght □Abern  | ant Right Subclavian  | □Kommerell/Ductus B  | ulge   |  |  |  |
|   | □Variant verteb  | ral origin □Abern   | ant Left Subclavian:  | □Bovine:   |  |  |  |  |
| Patent internal   | mammary artery l   | pypass graft:   | ] Yes □ No □ N/A  |  |  |  |  |  |
| Ascending   |  | Asymmetric Dilatation:  | ☐ Yes ☐ No ☐ s grafts: ☐ Yes ☐ No ☐                                       |  |  |  |  |  |
| Measurements  | (Largest Diamet  |   |   |  |  |  |  |  |
|   |  |   | STJ   STJ-midascending  | ☐ Midascending-distal asc  | ending   |  |  |  |

| Treated Zone with the Largest Diameter:                                 | <ul><li>□ Zone 1 □ Zone 2 □</li><li>□ Zone 7 □ Zone 8 □</li></ul> |                             |  |  |
|---|---|-----------------------------|--|--|
| Massurament   |   | mm                          |  |  |
| Measurement: Method Obtained:   | ☐ 3D or 4D Reconstru  | mm                          | DraOn MDI □ I  | PreOp Echo □ Intra Operatively             |
|   |   | iction in Fleop C1          | ш гіеор мікі ш і   | FreOp Ecilo 🗀 Ililia Operatively           |
| Proximal to Treated Zone(s) (Largest Diameter) A                        | vailable: □Yes □No  | Location:  ☐ Below STL ☐ ST | I-midascending □ Mid   | ascending-distal ascending                 |
|   |   | □ Zone 1 □ Zone 2           | □ Zone 3 □ Zone 4 □  | Zone 5 🗆 Zone 6                            |
|   | $(if Yes \rightarrow)$  | □ Zone 7 □ Zone 8           | ☐ Zone 9 ☐ Zone 10   | □ Zone 11                                  |
|   | (11100)   | Measurement:                |  | <u>mm</u>                                  |
|   |   | Method Obtained:            | ☐ 3D or 4D Reconstr<br>☐ PreOp Echo ☐ Intra                      | ruction  PreOp CT  PreOp MRI a Operatively |
| Distal to Treated Zone(s) (Largest Diameter) Avai                       | lable: □Yes □No   | Location:                   |  |  |
| , (====================================                                 |   | ☐ Below STJ ☐ ST            |  | ascending-distal ascending                 |
|   |   |                             | <ul><li>□ Zone 3 □ Zone 4 □</li><li>□ Zone 9 □ Zone 10</li></ul> |  |
|   | $(if Yes \rightarrow)$  | Measurement:                |  |  |
|   |   |                             | ☐ 3D or 4D Pagenet   | mm ruction                                 |
|   |   | Method Obtained.            | ☐ PreOp Echo ☐ Intra   |  |
| Intervention  |   |                             |  |  |
| (If Aortic Valve = yes and child to that field = yes                    | (A procedure on the A   | orta = Yes ↓)               |  |  |
| di  | sease or anatomy \square \text{N}                                 |                             | rgical complication  | Yes, unplanned due to unsuspected          |
| Procedure Performed:  | Yes \( \)   |                             |  |  |
| ☐ Replacement (If Replacement↓)   |   |                             |  |  |
| Transcatheter Valve Replacer  | ment:□Yes□No (H   | fVes I)                     |  |  |
| Approach: ☐ Trans   | sapical   Transaxilla   |                             | ☐ Transaortic ☐ Subo   | clavian                                    |
| ☐ Other ☐ Transili  | •   | ☐ Transcarotid. ☐ '         | <b>Franscaval</b>  |  |
| Surgical valve Replacement:   |   |                             |  | (2.1)                                      |
| (If Yes →) Device type:   |   | -                           | n fashioned pericardiur  |  |
|   | , ••  | Stented $\square$ Stentless | sub coronary valve only  | y □ Sutureless/rapid deployment            |
| □ Repair/Reconstruction (If Repair/Reconstr                             |   |                             |  |  |
| Repair Type (Select all that app  ☐ Commissural suture annulo           |   | lNodular Release            |  | ☐Leaflet resection suture                  |
| ☐ Leaflet plication   | •   | Leaflet Shaving             |  | ☐Leaflet pericardial patch                 |
| □ Leaflet commissural resusp  |   | Leaflet debridement         |  | □Division of fused leaflet raphe           |
| □ Leaflet free edge reinforcer  |   | lRing annuloplasty ex       | ternal ring  | □Ring annuloplasty internal ring           |
| □External Suture Annuloplas   |   | Pannus/Thrombus rei         |  | DKing annulopiasty internal ring           |
| □Surgical Prosthetic Valve Intervention: (1                             |   |                             |  |  |
|   |   |                             |  | Flori                                      |
| Type of Intervention: □Repair  Aortic annular enlargement □ Yes □ No (I | • •   | □ Removal of pannus         | Removal of clot  | Lotter                                     |
| Technique:  Nicks-Nunez   |   | ionno □ Other □             | l Unknown  |  |
| Replacement of non-coronary sinus (Modif                                |   |                             | Chkhown  |  |
| Root Procedure: ☐ Yes ☐ No (If 'Yes'↓)                                  |   |                             |  |  |
| Root Replacement with coron   | ary Ostial Reimplantati   | ion □ Yes □ No              |  |  |
| (If 'Ves' →) ☐ Compo  | osite Valve Conduit [   |                             |  |  |
| (nee  | eds a shortname)<br>nduit →) ☐ Mechanica                          | I □ Bioprosthetic □         | Homograft Root Repl  | acement                                    |
| (ii composite valve con   |   | vith Native Pulmonary       |  |  |

|  |  | (If Bioprosthetic                |   | Conduit □Stentless Valve Co   | onduit                     |  |  |  |
|--|--|----------------------------------|---|---|----------------------------|--|--|--|
| ☐ Stentless Biologic Full Root ☐ Valve sparing root reimplantation (David) |  |                                  |   |   |                            |  |  |  |
|  | (If Valve Sparing Root →) □ Valve sparing root remodeling (Yacoub) |                                  |   |   |                            |  |  |  |
| □ Valve sparing root reconstruction (Florida Sleeve)                       |  |                                  |   |   |                            |  |  |  |
| Coro   | nary Reimplantation: [   |                                  | ve sparing root reconsti  | action (1 fortal piecve)  |                            |  |  |  |
|  |  | Direct to Root I                 | Prosthesis (Button)   | ***   |                            |  |  |  |
|  |  |                                  | t Extension (SVG Cabrage Extension (Classic   |   |                            |  |  |  |
|  | r root reconstruction/ de  |                                  | out coronary ostial reim  |   |                            |  |  |  |
| L  | l Yes □ No   |                                  |   |   |                            |  |  |  |
| (If AortProc = Yes ↓)  |  |                                  |   |   |                            |  |  |  |
| Surgical Ascending/Arch  | Procedure(If Yes ↓) □  | Yes □ No                         |   |   |                            |  |  |  |
| Proximal Location:   | ☐ STJ-midascending ☐   | Midascending to d                | listal ascending   Zone 1   | □ Zone 2 □ Zone 3   |                            |  |  |  |
| Distal Technique: [  | ☐ Open <mark>/Unclamped</mark> ☐                                   | Clamped                          |   |   |                            |  |  |  |
| Distal Site: ☐ Asce  | ending Aorta 🗆 Hemia   | rch 🗆 Zone 1 🗆                   | Zone 2 □ Zone 3 □ Zo  | one 4   |                            |  |  |  |
| Distal Extention: □  | l Elephant trunk 🗆 Fro   | zen Elephant tru                 | nk 🗆 No   |   |                            |  |  |  |
| Arch Branch Reim   | olantation: 🗆 Yes 🗆 N  | o (If Yes↓ - <mark>select</mark> | all that apply)   |   |                            |  |  |  |
|  | Arch Branch □Innon   | ninate                           | ☐Right Subclavian   | □Right Common Caroti  | d □Left Common Carotid     |  |  |  |
|  |  | Subclavian                       | □Left Vertebral   | □Other  |                            |  |  |  |
| Open Surgical Descendin  | g Thoracic Aorta or Th   | oracoabdominal                   | Procedure (If Yes ↓): □   | Yes □ No  |                            |  |  |  |
|  | ☐ Reverse Hemiar<br>one 7 ☐ Zone 8 ☐ Zor<br>intation:☐ Yes ☐ No    |                                  | Zone 1 □ Zone 2 □ Zo  | ne 3 □ Zone 4 □ Zone 5  |                            |  |  |  |
| Distal Location:   | □ Zone 3 □ Zon   | e 4 □ Zone 5 □                   | Zone 6 □ Zone 7 □   | Zone 8 🗆 Zone 9 🗆 Zone 10   | ) □ Zone 11                |  |  |  |
| Visceral vessel inte   | rvention: 🗆 Yes 🗆 No   | (If Yes ↓)                       |   |   |                            |  |  |  |
| Celiac: [  | ☐ Reimplantation ☐ B   | ranch Graft 🗆 N                  | None  |   |                            |  |  |  |
| Superio  | r mesenteric:  Rei   | nplantation 🗆                    | Branch Graft □ Nor  | ne  |                            |  |  |  |
| Right Re   | enal:   Reimplantation   | ☐ Branch Graf                    | t □ None  |   |                            |  |  |  |
| Left Ren   | al:   Reimplantation   | ☐ Branch Graft                   | □ None  |   |                            |  |  |  |
| Endovascular Procedure(s   | ) : ☐ Yes ☐ No (If Yes   | ↓)                               |   |   |                            |  |  |  |
| ☐ LV Apex  |  | minal Aorta 🛭 I                  | _t. Subclavian/ <mark>Axil</mark> a □   | Rt. Subclavian/Axila  | ending Aorta               |  |  |  |
|  | cess: □ Yes □ No   |                                  |   |   |                            |  |  |  |
| Proximal landing   | zone:  | ☐ Zone 1                         | $\square$ Zone 2 $\square$ Zone 3 $\square$   | ing ☐ Midascending to distal<br>  Zone 4 ☐ Zone 5 ☐ Zone 6 [        |                            |  |  |  |
| Distal landing zon   | ne:  |                                  | ☐ Zone 9 ☐ Zone 10<br>STJ ☐ STJ-midascend   | <ul> <li>□ Zone 11</li> <li>ing □ Midascending to distal</li> </ul> | ascending                  |  |  |  |
|  |  | ☐ Zone 1                         | $\square$ Zone 2 $\square$ Zone 3 $\square$   | Zone 4 □ Zone 5 □ Zone 6 [  |                            |  |  |  |
| Ascending TEVA   | R: ☐ Dedicated IDE   |                                  | ☐ Zone 9 ☐ Zone 10 nt ☐ No  | ∟ Zone II   |                            |  |  |  |
| Arch Vessel managemen  | t  |                                  |   |   |                            |  |  |  |
| Innominate:  |  |                                  | nch Graft   |   |                            |  |  |  |
|  |  |                                  | Location:   | neu   |                            |  |  |  |
|  | (If Extra-anatomic byp   | ass (select all that a           | □Aorta-Inno   | minate  | d □Aorta- right subclavian |  |  |  |
|  |  |                                  | □Right Caro   | tid- Right subclavian   | □Other                     |  |  |  |
| Left Carotid:  |  |                                  | nch Graft   |   |                            |  |  |  |
| Lon Carona.  | ☐ Extra-anatomic B   | ypass   Fenest                   | rated No Flow Resto   |   |                            |  |  |  |
|  | (If Extra-anatomic bypa  | ass (select all that a           | $(\operatorname{Locati}_{\operatorname{apply}}) \rightarrow)$ $\square \operatorname{Aor}_{\operatorname{apply}}$ |   | Innominate- left carotid   |  |  |  |
|  |  |                                  |   | at comptid I oft (1   |                            |  |  |  |
| 1  |  |                                  | ⊔Rıgl   | nt carotid- Left carotid  | Other                      |  |  |  |

| Left Subclavian:                             | □ Native Flow □ Endovascular Bra                                 | nch Graft   Endovascular Parallel Graft  |
|--|--|--|
| Deri Subela viani.                           | ☐ Extra-anatomic Bypass ☐ Fenest                                 |  |
|  | (If Extra-anatomic bypass (select all that —apply)→)             | Location:  |
|  | —appiy) /)   | □Aorta- left subclavian □Left carotid- left subclavian □Other  |
| sceral Vessel managem                        | nent   |  |
| Celiac:                                      | ☐ Native Flow ☐ Endovascular Bra☐ No Flow Restored               | anch Graft □ Endovascular Parallel Graft □ Extra-anatomic Bypass □ Fenestrated   |
|  | (If Extra-anatomic bypass (select all that                       | Location:  |
|  | apply)→)   | □Aorta- celiac □Iliac-celiac □Other  |
| Superior mesenteric:                         | ☐ Native Flow ☐ Endovascular Bra☐ No Flow Restored               | nch Graft □ Endovascular Parallel Graft □ Extra-anatomic Bypass □ Fenestrated  |
|  | (If Extra-anatomic bypass  | Location:  |
|  | (select all that apply)→)  | □Aorta- superior □Iliac- superior mesenteric □Other  |
| Right renal:                                 | ☐ Native Flow ☐ Endovascular Bra☐ No Flow Restored               | anch Graft ☐ Endovascular Parallel Graft ☐ Extra-anatomic Bypass ☐ Fenestrated   |
|  | (If Extra-anatomic bypass (select all that a                     | Location:  |
|  | $\rightarrow$ )  | □ Aorta- right renal □Iliac- right renal □Other  |
| Left renal:                                  | ☐ Native Flow ☐ Endovascular Bra☐ No Flow Restored               | nch Graft □ Endovascular Parallel Graft □ Extra-anatomic Bypass □ Fenestrated  |
|  | (If Extra-anatomic bypass (select all that a                     | $\frac{\text{Location:}}{\square \text{Aorta- left renal}} \qquad \frac{\square \text{Other}}{\square \text{Other}}$   |
| Right Iliac:                                 | ☐ Native Flow ☐ Bifurcated Graft                                 | ☐ Extra-anatomic Bypass ☐ No Flow Restored   |
|  |  | Location:  |
|  | (If Extra-anatomic bypass (select all that a                     | $\square$ Femoral $\square$ Other  |
| Left Iliac:                                  | □ Native Flow □ Bifurcated Graft                                 | ☐ Extra-anatomic Bypass ☐ No Flow Restored   |
|  |  | Location:  |
|  | (If Extra-anatomic bypass (select all that a                     |  |
| Internal Iliac Pres                          | erved: Right Iliac only Left Iliac                               | only □ Both □ No   |
| Other Visceral Ve                            | essel(s) Extra-anatomic Bypass:   Yes                            | □ No   |
|  |  | Location:  |
|  | (If Yes (select all that ap                                      | $\square$ Aorta-other $\square$ Iliac-other $\square$ Other  |
| Planned Staged H                             | ybrid: □ Yes □ No  |  |
| ner Endovascular Pro                         | codural Information  |  |
|  | imal entry tear covered:   Yes   No                              |  |
|  | of procedure: $\square$ Yes $\square$ No (If Yes $\rightarrow$ ) | Type: □ Ia □ Ib □ II □ III □ IV □ V  |
| Conversion to o                              | pen: $\square$ Yes $\square$ No (If Yes $\rightarrow$ )          | Conversion reason: ☐ Deployment failure ☐ Endoleak ☐ Rupture ☐ Occlusion/loss of branch  |
| Intraop Dissection                           | on Extension: ☐ None ☐ Antegrade ☐                               | Retrograde ☐ Both  |
| Unintentional ruj<br>(If Yes $\rightarrow$ ) | pture of dissection septum: □Yes □No                             | Location:  □ Below STJ □ STJ-midascending □ Midascending-distal ascending □ Zone 1 □ Zone 2 □ Zone 3 □ Zone 4 □ Zone 5 □ Zone 6 □ Zone 7 □ Zone 8 □ Zone 9 □ Zone 10 □ Zone 11 |
| lditional Procedural In                      | formation  |  |
| nal Drain Placement: □                       | Pre- aortic procedure Post- aortic                               | procedure None   |
| aOp Motor Evoked Pot                         |  | Yes →) Documented MEP abnormality □ Yes □ No □ Unknown   |
|  |  | $Yes \rightarrow$ ) Documented SEP abnormality $\square$ Yes $\square$ No $\square$ Unknown  |
| raOp EEG: ☐ Yes ☐ N                          | To (If   | Yes →) Documented EEG abnormality □ Yes □ No □ Unknown   |

|  |   | IntraOp Transcutaneous Do  | pres. = 105 = 110  |                             |
|--|---|--|--|-----------------------------|
| Intraoperative Angiogram:   Y  | $\text{ 'es } \square \text{ No } (\text{If Yes} \rightarrow)$  | Volume of contrast:  | ml Fluoroscopy time:_  | min                         |
| Endovascular Balloon Fenestrat   | tion of the Dissection Flap:  | PreOp □IntraOp □PostOp □   | N/A  |                             |
| Devices  |   |  |  |                             |
| Device(s) Inserted: ☐ Yes ☐ No   | o (If Yes, list aorta proximal to o   | distal using device key ↓)   |  |                             |
| Aortic Valve or Aortic   | c Valve Composite Graft Imp   | lanted ☐ Yes ☐ No (If Yes↓)  |  |                             |
|  | odel Number:  |  |  |                             |
| Implant Siz<br>Unique De   | ze:evice identifier (UDI):  |  |  |                             |
| Aorta Devices  |   |  |  |                             |
| For devices other than aortic v Implant Method: Outcome: Model Number:   | 1=Open Surgical 2= Endov  | A. Below sinotube 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 t L. Zone 9 (infrare M. Zone 10 (commodification) N. Zone 11 (exter (Refer to Data)   | ction to mid ascending to distal ascending n innominate and left carotid) n left carotid and left subclavi cm. distal to left subclavian) zone 3 to mid descending aort scending aorta to celiac) to superior mesenteric) or mesenteric to renals) or infra-renal abdominal aorta) nal abdominal aorta) non iliac) | an) a ~ T6) les)            |
|  |   | (t   |  |                             |
| UDI:   | Enter unique device identifie  Implant Method   | Outcome  | 36 1137 1  | LIDI                        |
| T (T -44)  | Implant Method  | Unitcome   | Model Number   |                             |
| Location (Letter)  | Implant Method  | - Cateome  |  | UDI                         |
| M.3. Congenital Defect Rep<br>Congenital Diagnoses: Select<br>Diagnosis 1: Diagnosis 1:  | pair (other than-ASD – Sect up to three most significations is 2: (If not 'Notect up to three most significations is continuous and the con | ecundum, PFO, or Unicus<br>ant diagnoses: (refer to "Co<br>Other Congenital'→)Diagno<br>cant: (refer to "Congenital I  | pid, Bicuspid or Quadricusp<br>ngenital Diagnoses/Procedure<br>sis 3:  | id valve) s List" document) |
| M.3. Congenital Defect Rep<br>Congenital Diagnoses: Select<br>Diagnosis 1: Diagnosis 1: Proced<br>Procedure 1: Proced<br>N. Other Non-Cardiac Pro<br>Carotid Endarterectomy:   | pair (other than-ASD – Sect up to three most significations 2: (If not 'No exect up to three most significations 2: (If not 'No exect up to three most significations 2: (If not 'No exect up to three most significations 2: (If not 'No exect up to three most significations 2: (If other Non-Cardian 2 Yes, planned   | ecundum, PFO, or Unicus<br>ant diagnoses: (refer to "Co<br>o Other Congenital'→)Diagno<br>cant: (refer to "Congenital I<br>Other Congenital'→)Procedu<br>c Procedure = Yes ↓)<br>lanned due to surgical complic  | pid, Bicuspid or Quadricusp<br>ngenital Diagnoses/Procedure<br>sis 3:<br>Diagnoses/Procedures List" don<br>te 3:   | id valve) s List" document) |
| M.3. Congenital Defect Rep Congenital Diagnoses: Select Diagnosis 1: Diagn Congenital Procedures: Select Procedure 1: Proced  N. Other Non-Cardiac Pro Carotid Endarterectomy:   | pair (other than-ASD – Sect up to three most significations is 2: (If not 'No exet up to three most significa  | ecundum, PFO, or Unicus ant diagnoses: (refer to "Co o Other Congenital"→)Diagno cant: (refer to "Congenital I Other Congenital"→)Procedu  c Procedure = Yes ↓) lanned due to surgical complic or anatomy □ No due to surgical complication omy □ No   | pid, Bicuspid or Quadricusp<br>ngenital Diagnoses/Procedure<br>sis 3:<br>Diagnoses/Procedures List" don<br>te 3:   | id valve) s List" document) |
| M.3. Congenital Defect Rep Congenital Diagnoses: Select Diagnosis 1: Diagn Congenital Procedures: Select Procedure 1: Proced  N. Other Non-Cardiac Pro Carotid Endarterectomy: Yes, unplanne Other Vascular: Yes, p Yes, unplanned due to Other Thoracic: Yes, p                                     | pair (other than-ASD – Sect up to three most significations is 2: (If not 'No exect up to three most significations is 2: (If not 'No exect up to three most signification is 2: (If not 'No exect up to three most significations  | ecundum, PFO, or Unicus ant diagnoses: (refer to "Co o Other Congenital"  Other Congenital I Other Congenital I Other Congenital Other C | pid, Bicuspid or Quadricusp<br>ngenital Diagnoses/Procedure<br>sis 3:<br>Diagnoses/Procedures List" don<br>te 3:   | id valve) s List" document) |
| M.3. Congenital Defect Rep Congenital Diagnoses: Select Diagnosis 1: Diagn Congenital Procedures: Select Procedure 1: Proced  N. Other Non-Cardiac Pro Carotid Endarterectomy: Yes, unplanne Other Vascular: Yes, p Yes, unplanned due to Other Thoracic: Yes, p Yes, unplanned due to Other: Yes, p | pair (other than-ASD – Sect up to three most significations is 2: (If not 'No exet up to three most significa  | ecundum, PFO, or Unicus ant diagnoses: (refer to "Co o Other Congenital"  Other Congenital I Other Congenita | pid, Bicuspid or Quadricusp<br>ngenital Diagnoses/Procedure<br>sis 3:<br>Diagnoses/Procedures List" don<br>te 3:   | id valve) s List" document) |

| Peak Postoperative<br>Level within 48 ho        |   | Peak Postoperative Creatinine Leve prior to discharge:           | Discharge Hemoglobin:   | Discharge Hematocrit: |  |  |  |
|---|---|--|---|-----------------------|--|--|--|
| Blood Products Us<br>Red Blood Ce               |   | y: ☐ Yes ☐ No (If Yes ↓)  Fresh Frozen Plasma/Plasma Units       | s: Cryoprecipitate Units:   | Platelet Dose Pack:   |  |  |  |
|   |   | NA (not intubated)   |   |                       |  |  |  |
|   |   |  | :(mm/dd/yyyy hh:mm - 24 h   | r clock) ++           |  |  |  |
|   |   |  | (If yes →) Additional Hours Ventilated:   |                       |  |  |  |
| Total post-op initia                            | al vent hour  | (system calculation)   |   |                       |  |  |  |
| Total post-operativ                             | ve ventilation hour   | rs(System Calculation) ++  |   |                       |  |  |  |
|   |   | Initial ICU Hours:   |   |                       |  |  |  |
|   |   | (If Yes →) Additional ICU Hours:                                 |   |                       |  |  |  |
|   |   | e valve(s):  | Iild □ Moderate □ Severe □ Not Docum  | antad                 |  |  |  |
|   | e msufficiency fo<br>avalvular leak:  | und. Li None Li Inviai/ Hace Li iv                               | ind 🗀 Woderate 🗀 Severe 🗀 Not Docum   | ented                 |  |  |  |
|   |   | ☐ Mild ☐ Moderate ☐ Severe ☐ N                                   | ot Documented N/A   |                       |  |  |  |
|   |   |  | fild ☐ Moderate ☐ Severe ☐ Not Docum  | nented                |  |  |  |
|   | valvular leak:  |  |   |                       |  |  |  |
| □ None □  | ☐ Trivial/Trace □   | ☐ Mild ☐ Moderate ☐ Severe ☐ N                                   | ot Documented DN/A  |                       |  |  |  |
|   |   |  | ] Mild □ Moderate □ Severe □ Not Doc  |                       |  |  |  |
|   |   |  | ☐ Mild ☐ Moderate ☐ Severe ☐ Not Do   | ocumented             |  |  |  |
| Post Op Ejection F                              | Fraction: ☐ Yes ☐   | $\exists$ No If Yes $\rightarrow$ ) Pe                           | ost Op Ejection Fraction: (%)   |                       |  |  |  |
|   |   |  |   |                       |  |  |  |
| P. Postoperative                                | Events  |  |   |                       |  |  |  |
|   | ☐ Yes, Non-Infe   | postoperative period up to 30 days or<br>ctious □ Yes, Both □ No |   |                       |  |  |  |
|   | Superficial Sterna  | al Wound: ☐ Yes, within : ☐ Yes, >30 da                          | 30 days of procedure<br>ys after procedure but during <mark>hospitalizatio</mark> | n for surgery         |  |  |  |
| If Yes, Infectious                              |   | □ No   |   |                       |  |  |  |
| or Yes, Both $\rightarrow$                      | Deep Sternal:   | ☐ Yes, greater than 30 days but do                               | •   |                       |  |  |  |
|   | (I  | f any Yes value →) Diagnosis Date: _                             | // (mm/dd/yyyy)   |                       |  |  |  |
| If Yes, Non-<br>Infectious or<br>Yes, Both      | 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):  Yes- No If Yes, Non- Infective Surgical Wound Dehiscence (includes non-infective sterile wound):  Sternal Superficial  Deep Sternal |  |   |                       |  |  |  |
| Is there evidence the                           | at the patient had  | a deep starnal wound infaction within                            | n 90 days of the procedure: ☐ Yes ☐ No  | □ Unknown             |  |  |  |
|   | <u> </u>  | t Occurred: ☐ Yes ☐ No (If Yes ↓)                                | 190 days of the procedure: $\Box$ 1 es $\Box$ No                                  | Ulkilowii             |  |  |  |
| Other <u>in Hospital</u> Po<br><b>Operative</b> | ostoperative Even   | t Occurred: Li Fes Li No (II Fes 1)                              |   |                       |  |  |  |
|   | Tamponade: 🗆 🗅  | Yes □ No (If Yes →) Bleed Timing:                                | · 🗆 Acute 🗀 Late ++   |                       |  |  |  |
|   |   | Yes, surgical $\square$ Yes, transcatheter $\square$             |   |                       |  |  |  |
|   |   | tion: □ Yes □ No ++  |   |                       |  |  |  |
|   |   | Native coronary ☐ Graft ☐ Both                                   | Intervention Type: ☐ Surgery ☐ P  | CI 🗆 Both             |  |  |  |
| Aortic Reinterventic                            | on: □ Yes □ No  | (if yes $\rightarrow$ ) Type: $\square$ Open $\square$ Endovaso  | cular ++  |                       |  |  |  |
| ReOp for Other Car                              | diac Reasons:   | Yes □ No ++  |   |                       |  |  |  |
|   |   | ardiac Reasons:   Yes   No                                       |   |                       |  |  |  |
| Open chest with pla                             | nned delayed ster   | nal closure: ☐ Yes ☐ No  |   |                       |  |  |  |
| <u>Infection</u>                                |   |  |   |                       |  |  |  |
| Sepsis: ☐ Yes ☐                                 |   |  |   |                       |  |  |  |
| Neurologic, Centra                              |   |  |   |                       |  |  |  |
| Postoperative Strok<br>Encephalopathy:          |   | O ++   |   |                       |  |  |  |
| Manual : : B                                    | 1   |  |   |                       |  |  |  |
| Neurologic, Periph                              | eral  | . Vas □ Na   |   |                       |  |  |  |
| Lower Extremity Pa                              |   | . TES LINO   |   |                       |  |  |  |
| Paresis >24 hours: [ Recurrent Laryngea         |   | l Ves □ No   |   |                       |  |  |  |
| Pulmonary                                       | i iveive injuiy. L  | 100 110  |   |                       |  |  |  |
|   | on: □ Yes □ No  | (OR exit time until initial extubation, pl                       | lus any additional reintubation hours)  |                       |  |  |  |
|   |   |  | <del>-</del> -  |                       |  |  |  |

| (if Yes →) Tracheostomy Requir  | red after OR Exit ☐ Yes  | □ No                                |                       |                       |   |
|---|--|-------------------------------------|-----------------------|-----------------------|---|
| Pneumonia: ☐ Yes ☐ No<br>Pulmonary Thromboembolism: ☐ Yes ☐                         | l No   |                                     |                       |                       | I   |
| Pleural Effusion Requiring Drainage:  |  |                                     |                       |                       |   |
| Pneumothorax Requiring Intervention:  | l Yes □ No   |                                     |                       |                       |   |
| Renal   |  |                                     |                       |                       |   |
| Renal Failure: $\square$ Yes $\square$ No ++  (If Yes $\rightarrow$ ) Dialysis (New | ly Required): \( \subseteq \text{Vec} \subseteq \)                                 | No (If Vec -) P                     | Required after Hospi  | tal Discha            | rga: □ Vas □ No   |
| Vascular  | ту кеquirea). Ш тез Ш  | 110 (II 1 cs →) K                   | tequired after 110spi | tai Disciia           | ige. 🗆 res 🗀 No   |
| Iliac/Femoral Dissection: ☐ Yes ☐ No  |  |                                     |                       |                       |   |
| Acute Limb Ischemia: ☐ Yes ☐ No   |  |                                     |                       |                       |   |
| Deep Venous Thrombosis: ☐ Yes ☐ No  |  |                                     |                       |                       |   |
| Mechanical assist device related compl  |  | (If Yes –↓)                         |                       |                       |   |
| ☐ Cannula/Insertion☐ Thrombotic/Embo☐ Hemolytic☐ Infection                          | n: (select all that apply) site issue  Hemorrhag blic  I assist device related con |                                     |                       |                       |   |
| Other   |  |                                     |                       |                       |   |
| Rhythm Disturbance Requiring Permaner   | nt Pacemaker:   Yes  | No                                  |                       |                       |   |
| Cardiac Arrest: ☐ Yes ☐ No  Aortic Complication ☐ Yes ☐ No (If Y                    | 7 1)   |                                     |                       |                       |   |
| Aortic Dissection:  |  |                                     |                       |                       |   |
|   | doleak: ☐ Yes ☐ No   |                                     | if ves→) Type: ☐ Ia   | ПЪП                   | II 🗆 III 🗆 IV 🗆 V   |
|   | n malperfusion: ☐ Yes ☐  |                                     | <u> </u>              |                       |   |
|   | nduced entry tear:   Yes   | □ No                                |                       |                       |   |
| Anticoagulant Bleeding Event: ☐ Yes ☐   |  |                                     |                       |                       |   |
|   | ebral Subdural Ga  |                                     | 1.00                  | TDI 1                 |   |
| Heparin Induced Thrombocytopenia (HIT) Pericardiocentesis:: □ Yes □ No              | 1) L Yes L No (11 y  | es→) Heparin Induced                | Thrombocytopenia      | a Thrombo             | osis (HITT)□ Yes □ No                                     |
|   | □Ischemic Bowel □ G  | astrointestinal Rleed [             | Pancreatitis Ch       | olecystitis           |   |
|   | ☐Liver Dysfunction/Live  |                                     |                       | olecysuus             |   |
|   |  |                                     |                       |                       |   |
| Atrial Fibrillation: ☐ Yes ☐ No   |  |                                     |                       |                       |   |
|   |  |                                     |                       |                       |   |
| Q. Discharge / Mortality  |  |                                     |                       |                       |   |
| Status at 30 days After Surgery (either o   |  |                                     |                       |                       |   |
| Did the patient transfer to another acute   |  |                                     | stay:   Yes   No      | (If Yes $\rightarrow$ | Date Transferred://                                       |
| Is the patient still in the Acute Care Hos  |  | */                                  |                       |                       |   |
| Hospital Discharge Date<br>Status at Hospital Discharge                             |  | ld/yyyy)<br>last known status alive | (other than Hospic    | <u>a)</u>             |   |
| ++  | Discharged Alive,  |                                     | (outer than Hospic    | <i>C)</i>             |   |
|   | ☐ Discharged to Hos  |                                     |                       |                       |   |
|   | ☐ <u>Died in hospital</u>  |                                     |                       |                       |   |
| (ICD: 1 Al: 1 (1  | 1' D' 1 I  | DH D E                              | 1 1 C /T              | 10                    | TI '-/D 1 1   |
| (If Discharge Alive, last known stat<br>OR Discharged Alive, died after di          |  | ation: ☐ Home ☐ E<br>☐ Nursing Home |                       | ntional Cal           |   |
|   | $\rightarrow$ )  | <u> </u>                            |                       | _ 0                   | -   |
|   |  | Location = Extended                 | ☐Acute/Short-ter      | m Rehab [             | □Long-term Rehab □Unknown                                 |
|   | C  | are/Transitional Care               |                       |                       |   |
|   |  | Unit/Rehab→)                        |                       |                       |   |
| (If Di  | scharge Location is NOT  | Cardiac Rehabilitati                | ion Referral:         | □ Ye                  | s □ No □ Not Applicable                                   |
|   | Left AMA $\rightarrow$ )   |                                     |                       |                       |   |
|   |  | Substance Use Scre                  |                       | ☐ Ye                  | s □ No □ Not Applicable                                   |
|   |  | Counseling Perform                  |                       |                       |   |
|   |  | Medications Prescrib                |                       |                       | □ Vas □ No □ Control dit-1                                |
|   |  | Antiplatelet++                      | Aspirin ADP Inhibitor |                       | ☐ Yes ☐ No ☐ Contraindicated ☐ Yes ☐ No ☐ Contraindicated |
|   |  | 7 mapateret i                       | Other Antiplatele     | et                    | ☐ Yes ☐ No ☐ Contraindicated                              |
|   |  |                                     | Direct Oral Antio     |                       | ☐ Yes ☐ No ☐ Contraindicated                              |
|   |  |                                     | Warfarin (Couma       | adin)                 | ☐ Yes ☐ No ☐ Contraindicated                              |
|   |  | Anticoagulant                       | Other Anticoagu       | lant                  | ☐ Yes ☐ No ☐ Contraindicated                              |
|   |  | ACE or ARB                          |                       |                       | No Contraindicated  |
|   |  |                                     |                       | ⊔ Not Ind             | licated (see Training Manual)                             |

|   |                                | Amioda             | rone                                    | ☐ Yes ☐ No ☐ Contraindicated           |
|---|--------------------------------|--------------------|---|--|
|   |                                | Beta Blo           | ocker ++                                | ☐ Yes ☐ No ☐ Contraindicated           |
|   |                                | Lipid L            | owering - Statin ++                     | ☐ Yes ☐ No ☐ Contraindicated           |
|   |                                | Lipid L            | owering - Other                         | ☐ Yes ☐ No ☐ Contraindicated           |
| (If Status at Hospital Discharge is                                 | Mortality - Date/              | /                  | _ (mm/dd/yyyy) ++                       |  |
| 'Discharged Alive, Died after                                       |                                |                    |   |  |
| discharge OR Discharged to  |                                |                    |   |  |
| <u>Hospice</u> →)   |                                |                    |   |  |
| (If Status at Hospital Discharge is                                 | Operative Mortality:           | l Yes □ No ++      |   |  |
| 'discharged alive, died after discharge                             |                                |                    |   |  |
| OR Discharged to Hospice'→)   |                                |                    |   |  |
| (If Status at Hospital Discharge is                                 | Post Discharge death lo        | cation:            |   | ended Care Facility                    |
| <u>'Discharged to Hospice' OR</u> 'Discharged Alive, died after     |                                |                    | ☐ Acute Rehabilita ☐ Other ☐ Unk        | 1 0                                    |
| discharge discharge →)  |                                |                    |   | diowii                                 |
| $\frac{\text{discharge}}{\text{(If Died in Hospital} \rightarrow)}$ | Primary Causa of Dooth         | (coloot only one)  | □ Cardiac □ Nauro                       | logic □ Renal □ Vascular □ Infection □ |
| (II Died III Hospital—)   | Pulmonary  Unknow              |                    | □ Caldiac □ Neulo                       | nogic   Renai   Vasculai   Infection   |
|   | ☐ Other                        | vv 11              |   |  |
|   |                                |                    |   |  |
| R. Readmission  |                                |                    |   |  |
| (If Discharge/Mortality Status = "Discharg                          | red alive last know status=ali | ive" or "Discharge | d alive died after dischar              | rge"  )                                |
| Readmit:  Yes  No  Unknow   |                                | ive of Discharge   | a anve, alea aner aisenai               | gc +)                                  |
| Readmit Date: /   | / (mm/dd/yyyy)                 | )                  |   |  |
| Readmit Primary Reason:   | (11111/1201/999)               | /                  |   |  |
| ☐ Angina  |                                |                    | ☐ Pericardial Effusion                  | on and/or Tamponade                    |
|   | n Complication - Pharmac       | cological          |   | Cardiotomy Syndrome                    |
|   | n Complication – Valvula       |                    | ☐ Pleural effusion re                   |  |
| ☐ Aortic Complic  | ation                          |                    | ☐ Pneumonia                             |  |
| ☐ Arrhythmia or 1   |                                |                    | □ Renal Failure                         |  |
|   | (hyper or hypotension)         |                    | ☐ Renal Insufficience                   |  |
| ☐ Chest pain, nor   |                                |                    | ☐ Respiratory comp                      | lication, Other                        |
| ☐ Congestive Hea  |                                |                    | □ Sepsis                                |  |
|   | ry/Graft Dysfunction           |                    | □ Stroke                                |  |
| ☐ Depression/psy  | chiatric issue                 |                    | □ TIA                                   |  |
|   | -1                             |                    | ☐ Transfusion                           |  |
| ☐ Electrolyte imb ☐ Endocarditis                                    | arance                         |                    | ☐ Transplant Rejecti                    |  |
| ☐ Failure to thrive   | ۵                              |                    | ☐ VAD Complication ☐ Valve Dysfunction  |  |
| ☐ GI issue  | <del>J</del>                   |                    | ☐ Varve Dystunction                     |  |
| ☐ Infection, Cond   | luit Harvest Site              |                    | □ Wound, other (dr                      |  |
|   | Sternum / Mediastinitis        |                    |   | chiscence not related to infection     |
| ☐ Mental status c   |                                |                    | ☐ Other – Related R                     |  |
| ☐ Myocardial Inf  | arction                        |                    | ☐ Other – Nonrelate                     |  |
| □ PĒ  |                                |                    | ☐ Other – Planned R                     | Readmission                            |
|   |                                |                    | □ Unknown                               |  |
| Readmit <u>Primary</u> Procedur                                     |                                |                    | <b>-</b>                                |  |
| □ No Procedure Performe   |                                |                    | OR for Vascular F                       |  |
| ☐ Cath lab for Valve Inter  |                                |                    | ☐ OR for Aorta Inte                     |  |
| ☐ Cath lab for Coronary In  | itervention (PCI)              |                    | ☐ Pacemaker Inserti                     |  |
| ☐ Dialysis☐ OR for Bleeding   |                                |                    | ☐ Pericardiotomy / I☐ Planned noncardia |  |
| ☐ OR for Greening ☐ OR for Coronary Artery                          | Intervention                   |                    | ☐ Thoracentesis/ Ch                     |  |
| ☐ OR for Sternal Debrider   |                                |                    | □ Wound vac                             | est tuoe insertion                     |
| ☐ OR for Valve Interventi   |                                |                    | ☐ Other Procedure                       |  |
|   | <del></del>                    |                    | □ Unknown                               |  |
| (if OR for Aorta intervention-                                      |                                |                    |   |  |
|   | en 🗆 Endovascular              |                    |   |  |
|   |                                | Infection 🗆 Di     | ssection   Expansion                    | ☐ Loss of side branch patency ☐ Other  |

| Adult Cardiac Anesthesiology  (for sites participating in the optional anesthesiology component)   |  |   |                        |  |  |     |
|--|--|---|------------------------|--|--|-----|
| Organization participates in the Adult Ar  |  |   | □ No                   |  | -   /  |     |
| Primary Anesthesiologist Name:   |  |   | Prim                   | ary Anesthesiologist   | National Provider Number:  |     |
| Anesthesiology Care Team Model:  Anesthesiologist working alo Attending anesthesiologist te Attending anesthesiologist m Attending anesthesiologist m CRNA practicing independer  Pain Score Baseline: 0 0 1 0 2  Pre Induction Systolic BP: | aching/m<br>aching/m<br>edically o<br>edically o<br>CRNA<br>atly | nedically directing hedirecting CRNA (if directing AA (if yes | ouse staff  yes   )  R | atio: □ 1:1 □ 1:2. □   | 11:3   |     |
| Due Industran Heart Data   |  |   | Dulmonomy Auto         | ami Cathatan Haadi. [  | J Voc. □ No.   |     |
| Pre Induction Heart Rate:  |  |   | Pulmonary Arte         | ery Catheter Used: [   | l Yes ∟ No   |     |
| Algorithm <mark>used</mark> to Guide Transfusion: □  | Yes [  | □ No  |                        |  |  |     |
| Anticoagulation Prior to CPB   |  |   |                        |  |  |     |
| Heparin prior to CPB ☐ Yes☐ No (If Yes →) —  (If Heparin prior to CBP = Yes →)   | Fresh 1  | ose: Honits  Frozen Plasma prior  Tombin III prior to C       | to CPB  Yes            | itration based on hepa  Other metho  No Total Dose:  Total Dose: | ation based on activated clotting time (AC arin concentration (Hepcon) ad unitsInternational Unit/mL | CT) |
| Bivalirudin ☐ Yes ☐ No   |  |   | (II yes                |  |  |     |
| Argatroban □Yes □ No   |  |   |                        |  |  |     |
| Viscoelastic Testing Used Intraop: 🗖 Ye  | s 🔲 No   |   |                        |  |  |     |
|  |  |   |                        |  |  |     |
| Volatile Agent Used: ☐ Yes ☐ No  |  |   |                        |  | In a c   |     |
| Volatile Agent(s) used (select all that apply—   |  | ☐ Isoflurane  | ☐ Desflurane           | ☐ Sevoflurane  | ☐ Other  |     |
| (If Yes →) Volatile Agent(s) timi<br>(select all that apply—   | ng 🗆   | ☐ Pre CPB   | ☐ During<br>CPB        | □ Post CPB   | ☐ Maintenance (if no CPB)  |     |
| Intraop Midazolam:   Yes   Intra   | op Fenta   | nnyl□ Yes □ No  | Intraop Su             | ıfentanil □ Yes □  | No Intraop Remifentanil□ Yes □   | No  |
| No (if yes↓) (if yes↓)  Dosemgs  | Dose   | emcgs   | (if yes↓)              | Dosem  | (if yes↓) ucgs Dose mcgs   |     |
| Multimodal Analgesics (OR Entry to 24h post OR Exit) ☐ Yes ☐ (if yes, select all that apply→)  | No C   | ☐ Acetaminophen (I☐ Dexmedetomidine                           | V or PO) 🗆 Cox         |  | ine Infusion (not bolus) oidal anti-inflammatory (PO)  |     |
| · · · · · · · · · · · · · · · · · · ·  | □ Esoph<br>□ Bladde  | er  |                        | ☐ Tympanic<br>☐ Rectal   | Core Temp Max during rewarming:  | _°C |
| Crystalloid given by Anesthesia $\square$ Yes $\square$ No (If Yes $\rightarrow$ )   |  | . Total Crystalloid:  |                        |  |  |     |
|  | Type:□   | 0.9 Sodium Chlorid  | le 🗆 Normosol [        | ☐ Ringer's Lactate ☐   | Plasmalyte   |     |
| Was 5% Albumin given by Anesthesia   | □ Yes  | □ No(If Yes→)   |                        | Anesthesiology Tota  | al 5% AlbuminmL  |     |
| Was 25% Albumin give by Anesthesia   | ☐ Yes  | $\square$ No(If Yes $\rightarrow$ )                           |                        | Anesthesiology Tota  | al 25% AlbuminmL   |     |
| Autologous Normovolemic Hemodilution (ANH)  Yes □ No (If Yes →)  |  | ANH Volume:   | mL                     | 1  |  |     |

| Left Atrial Size  Yes  No (If Yes  Left Atrial Superior-Inferior  meft Atrial Medial-Lateral  medial Lateral  medial   | Intraop Inhaled Va                                 | asodilator:                                       | Intraop <mark>IV</mark> | Vasodilators Used:            | ☐ Yes ☐ No          |                    |                  |       |
|--|--|---|-------------------------|-------------------------------|---------------------|--------------------|------------------|-------|
| Intraperative Processed LEUG (BIS);   Yes   No   Intraperative Processed LEUG (BIS);   Yes   No   Intraperative Processed LEUG (BIS);   Yes   No   If Yes   If Yes   No   If Yes   If Yes   No   If Yes     |  |   | /17                     | <u>Пт. т. 1: С</u>            |                     | N T T T            | l' T ( I D       | •,    |
| Introp   Post-Induction   Pre-Incision   Transceophageal Echo (TEE):   Yes   No  |  |   | mg/aL                   | Lintraop Insulin G            |                     | No Intraop Ins     | sulin Total Dose | units |
| LVEF Measured or Estimated:  | Intraoperative Pro                                 | cessed EEG (BIS): ☐ Yes                           | □ No                    | <u> </u>                      |                     |                    |                  |       |
| LVEF Measured or Estimated:  | Intraop Post-Induc                                 | ction/Pre-Incision Transesoph                     | nageal Echo (TEE)       | ı: □ Yes □ No                 |                     |                    |                  |       |
| Left Atrial Size   Yes   No     Yes   Left Atrial Sepenoral Inferior   Cm  |  |   |                         |                               |                     | 0/                 |                  |       |
| Left Atrial Size   Yes   No (If Yes   No (If Yes   Laft Atrial Superior Inferior   | (If-Post-<br>Induction/Pre-                        | LVEF Measured or Estimate                         | ed: ∐Yes ∐N             | $lo (If Yes \rightarrow) LVE$ | .F:                 | <mark>%</mark>     |                  |       |
| Left Atrial Size   Yes   No   If Yes   Left Atrial Medial-Lateral   mm   | Incision   |   |                         |                               |                     |                    |                  |       |
|  | /  | Left Atrial Size ☐ Yes ☐ N                        | o (If Yes→)             | Left Atrial Superio           | or-Inferior         | cm                 |                  |       |
| Mild Dysfunction   Severe Dy   |  |   |                         | Left Atrial Medial            | -Lateralc           | <mark>cm</mark>    |                  |       |
| Mitral Regurgitation:   None   Mitral Regurgitation:   Tracectrivial   Mid   Mid   Moderate   Severe   No   Moderate   Severe   No   Not assessed   Patent Foramen Ovale:   Yes   No   Not assessed   Ascending Aorta Assessed   Yes   No   Maximal Ascending Aorta Diameter:   mm   Maximal Ascending Aorta Atheroma Thickness:   mm   Ascending Aorta Atheroma Mobility:   Yes   No   Aortic Arch Visualized:   Yes   No   Maximal Aortic Arch Atheroma Thickness:   mm   Maximal Aortic Arch Atheroma Thickness:   mm   Maximal Aortic Arch Atheroma Mobility:   Yes   No   Maximal Administered by Perfusion   Alpha-Stat   PH-Stat   Unknown   Maximal Administered by Perfusion   Team:   mt_   Total Crystalloid Administered by Perfusion Team:   mt_   Total S% Albumin Administered |  | RV Function:                                      |                         |                               |                     |                    | ☐ Not Assessed   |       |
| Tracetrivial   Mild   Moderate   Severe   Patent Foramen Ovale:   Yes   No   Not assessed  |  | Mitral Pagurgitation:                             |                         |                               | on                  | Dysfunction        |                  |       |
| General Content of the Content of CPB:   Cell Saver Volume:   Maximal Administered by Perfusion Team:   Maximal    |  | ivilual Regulgitation.                            |                         |                               |                     |                    |                  |       |
| Severe   Not assessed   Patent Foramen Ovale:   Yes   No   Not assessed  |  |   |                         |                               |                     |                    |                  |       |
| Patent Foramen Ovale:  |  |   |                         | ☐ Severe                      |                     |                    |                  |       |
| Ascending Aorta Assessed   |  | Patent Foramen Ovale                              |                         |                               | □ Not assessed      |                    |                  |       |
| Maximal Ascending Aorta Atheroma Thickness:  |  |   |                         |                               |                     |                    |                  |       |
| Maximal Ascending Aorta Atheroma Thickness:nnn   |  | Ascending Aorta Assessed                          |                         |                               |                     | _                  | _                |       |
| Ascending Aorta Atheroma Mobility:   |  | Maximal Ascending Aorta Diameter:cm               |                         |                               |                     |                    |                  |       |
| Ascending Aorta Atheroma Mobility:   |  | (If Ves→)   | Maximal Ascer           | nding Aorta Atheron           | na Thickness: _     | r                  | nm               |       |
| Aortic Arch Visualized:  |  | (11 105 /)  | Ascending Aor           | ta Atheroma Mobili            | ty:                 | □ Yes □ No         |                  | Ī     |
| Maximal Aortic Arch Atheroma Thickness:mm    Cardiopulmonary Bypass Used:   Yes   No   |  |   | _                       |                               |                     |                    |                  |       |
| Cardiopulmonary Bypass Used:   Yes   No  |  | Aortic Arch Visualized:                           |                         | ∃ Yes □ No                    |                     |                    |                  |       |
| Cardiopulmonary Bypass Used:   |  |   | Maximal Aorti           | c Arch Atheroma Th            | ickness:            | r                  | <mark>nm</mark>  |       |
| Cardiopulmonary Bypass Used:   |  | (If Yes→)   | Aortio Arch A           | thoroma Mobility              |                     |                    |                  |       |
| ABG Management during cooling  |  |   | Aortic Arcii A          | uncroma widomity.             |                     | □ Yes □ No         |                  |       |
| ABG Management during  | Cardiopulmonary                                    | Bypass Used: ☐ Yes ☐ No                           | )                       |                               |                     |                    |                  |       |
| ABG Management during  |  | ABG Management during co                          | ooling                  | na-Stat  pH-St                | tat 🔲 Ur            | nknown             |                  |       |
| rewarming Arterial Outflow Temperature Measured  | (If CPB  |   |                         |                               |                     | <u> </u>           |                  |       |
| Retrograde Autologous Priming of CPB Circuit:  | Use is Yes→)                                       | rewarming   |                         |                               |                     |                    |                  |       |
| Total Crystalloid Administered by Perfusion Team:mL  |  |   |                         |                               | Yes→) Higher        | st Arterial Outflo | w Temperature:   | °C    |
| Cell Saver Volume:mL   O.9 Sodium Chloride   |  | Red ograde Tutologous Hilling of CLD Citcuit. 103 |                         |                               |                     |                    |                  |       |
| Total 5% Albumin Administered by Perfusion 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: □ Yes □ No  Cell Saver Volume:mL  Protamine Total Dose :mgs  |  | Total Crystalloid Administer                      | red by Perfusion T      | eam:                          | _ <mark>mL</mark> _ |                    |                  |       |
| Total 5% Albumin Administered by Perfusion 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: □ Yes □ No  Cell Saver Volume:mL  Protamine Total Dose :mgs  |  |   |                         | 4                             |                     | IN 1□ D'           | , I              | 1 .   |
| 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: □ Yes □ No  Cell Saver Volume:mL  Protamine Total Dose :mgs  | Total 5% Albumin Administered by Perfusion Team:mL |   |                         |                               |                     |                    | ismalyte         |       |
| Hemofiltration Volume Removed by Perfusion Team:mL  Inotropes used to wean from CPB:   |  |   |                         |                               |                     |                    |                  |       |
| Inotropes used to wean from CPB:   |  |   |                         |                               |                     |                    |                  |       |
| Vasopressors used to wean from CPB: ☐ Yes ☐ No  Cell Saver Volume:mL  Protamine Total Dose :mgs  |  |   |                         |                               |                     |                    |                  |       |
| Cell Saver Volume:mL Protamine Total Dose :mgs   |  | Inotropes used to wean from CPB: ☐ Yes ☐ No       |                         |                               |                     |                    |                  |       |
|  |  | Vasopressors used to wean f                       | from CPB:   Yes         | s 🗆 No                        |                     |                    |                  |       |
|  | Cell Saver Volur                                   | mL  |                         |                               | Protamine Total I   | Dose :             | mgs              |       |
| Post-Procedure Use Of Intraoperative TEE: ☐ Yes ☐ No   |  |   |                         |                               |                     |                    |                  |       |
| *  | Post-Procedure Us                                  | se Of Intraoperative TEE:                         | Yes □ No                |                               | 1                   |                    |                  |       |

| (If Post Proc<br>TEE is Yes→) | Systolic Anterior Motion of Mitral Valve:   | ☐ Yes ☐ No ☐ Not assessed   |  |  |  |  |  |  |  |  |  |
|-------------------------------|---|---|--|--|--|--|--|--|--|--|--|
| TEE IS TES→)                  | Return to CPB for Echo Related Diagnosis:   | □Yes □ No   |  |  |  |  |  |  |  |  |  |
|                               | □ Systo □ Ventr □ Other   | -   |  |  |  |  |  |  |  |  |  |
|                               | (if ventricular failure   | (if ventricular failure →)  □ Left Ventricular Failure □ Right Ventricular Failure □ Bi-Ventricular Failure □ Unknown |  |  |  |  |  |  |  |  |  |
|                               | Post-Procedure LVEF Measured: ☐ Yes ☐ No  |   |  |  |  |  |  |  |  |  |  |
|                               | $\begin{array}{c} \text{ (If Yes} \rightarrow \text{)} \\ \\ \text{Post-Procedure RV Function: } \\ \\  \text{ Normal} \end{array}$ | Post-Procedure% LVEF:  □ Moderate □ Not Assessed  |  |  |  |  |  |  |  |  |  |
|                               | ☐ Mild Dysfunction  | Dysfunction  ☐ Severe Dysfunction   |  |  |  |  |  |  |  |  |  |
| Patient Died in the C         | OR: Yes No  |   |  |  |  |  |  |  |  |  |  |
| (If OR Death is No→)          | Core Temp Measured upon Entry to ICU/PACU: $\square$ Yes $\square$ N  | 0   |  |  |  |  |  |  |  |  |  |
| 18 110→)                      | $(\text{If Yes} \rightarrow) \qquad \qquad \text{Post Op Core Temp:}$   | <mark>°C</mark>   |  |  |  |  |  |  |  |  |  |
|                               | Post-Op INR Measured upon admission to post op care locati  | on (PACU, ICU):   |  |  |  |  |  |  |  |  |  |
|                               | (If Yes $\rightarrow$ ) INR:  |   |  |  |  |  |  |  |  |  |  |
|                               | WBC Measured upon admission to post op care location (PA  | CU, ICU):   |  |  |  |  |  |  |  |  |  |
|                               | $(\text{If Yes} \rightarrow) \qquad \qquad \textbf{WBC}: \underline{\hspace{1cm}}$  | <mark>/μL</mark>  |  |  |  |  |  |  |  |  |  |
|                               | Platelets Measured upon admission to post op care location (I   | PACU, ICU):   |  |  |  |  |  |  |  |  |  |
|                               | $(If Yes \rightarrow)$ Platelet Count:  | <mark>/μL</mark>  |  |  |  |  |  |  |  |  |  |
|                               | Hemoglobin Measured upon admission to post op care location   | on (PACU, ICU): Yes No  |  |  |  |  |  |  |  |  |  |
|                               | (If Yes→) Hemoglobin:   | /gm/dL  |  |  |  |  |  |  |  |  |  |
|                               | Hematocrit Measured upon admission to post op care location   | _   |  |  |  |  |  |  |  |  |  |
|                               | (If Yes→) Hematocrit:   | %   |  |  |  |  |  |  |  |  |  |
|                               | Fibrinogen Measured upon admission to post op care locatio  |   |  |  |  |  |  |  |  |  |  |
|                               | (If Yes→) Fibrinogen  |   |  |  |  |  |  |  |  |  |  |
|                               | Lactate Measured upon admission to post op care location (F   |   |  |  |  |  |  |  |  |  |  |
|                               | (If Yes→) Lactate:  | <mark>mg/dL</mark>  |  |  |  |  |  |  |  |  |  |
|                               | Peak Glucose between within 18-24 hours after OR Exit Tim   | :   |  |  |  |  |  |  |  |  |  |
|                               | Post Op Propofol: ☐ Yes ☐ No  |   |  |  |  |  |  |  |  |  |  |
|                               | Post Op Other Sedation: ☐ Yes ☐ No Post Op Delirium: ☐ Yes ☐ No   |   |  |  |  |  |  |  |  |  |  |
|                               | Pain Score POD #3:  |   |  |  |  |  |  |  |  |  |  |
|                               |   | □5 □6 □7 □8 □9 □10 □Not □ recorded NA   |  |  |  |  |  |  |  |  |  |
|                               | Pain Score Discharge:   |   |  |  |  |  |  |  |  |  |  |
|                               |   | □ 5 □ 6 □ 7 □ 8 □ 9 □ 10 □ Not □ recorded NA  |  |  |  |  |  |  |  |  |  |