



Transcatheter Mitral Leaflet Clip Procedure (TMVr) v3 Data Collection Form

STS/ACC TVT Registry™

A. DEMOGRAPHICS

Last Name ²⁰⁰⁰ :	First Name ²⁰¹⁰ :	Middle Name ²⁰²⁰ :
Birth Date ²⁰⁵⁰ : mm / dd / yyyy	SSN ²⁰³⁰ : - - <input type="checkbox"/> SSN N/A ²⁰³¹	Patient ID ²⁰⁴⁰ : (auto)
Other ID ²⁰⁴⁵ :	Sex ²⁰⁶⁰ : <input type="radio"/> Male <input type="radio"/> Female	Patient Zip Code ²⁰⁶⁵ : <input type="checkbox"/> Zip Code N/A ²⁰⁶⁶
Race: <input type="checkbox"/> White ²⁰⁷⁰ <input type="checkbox"/> Black/African American ²⁰⁷¹ <input type="checkbox"/> American Indian/Alaskan Native ²⁰⁷³ (check all that apply) <input type="checkbox"/> Asian ²⁰⁷² → If Yes, <input type="checkbox"/> Asian Indian ²⁰⁸⁰ <input type="checkbox"/> Chinese ²⁰⁸¹ <input type="checkbox"/> Filipino ²⁰⁸² <input type="checkbox"/> Japanese ²⁰⁸³ <input type="checkbox"/> Korean ²⁰⁸⁴ <input type="checkbox"/> Vietnamese ²⁰⁸⁵ <input type="checkbox"/> Other ²⁰⁸⁶ <input type="checkbox"/> Native Hawaiian/Pacific Islander ²⁰⁷⁴ → If Yes, <input type="checkbox"/> Native Hawaiian ²⁰⁹⁰ <input type="checkbox"/> Guamanian or Chamorro ²⁰⁹¹ <input type="checkbox"/> Samoan ²⁰⁹² <input type="checkbox"/> Other Island ²⁰⁹³		
Hispanic or Latino Ethnicity ²⁰⁷⁶ : <input type="radio"/> No <input type="radio"/> Yes → If Yes, Ethnicity Type: (check all that apply) <input type="checkbox"/> Mexican, Mexican-American, Chicano ²¹⁰⁰ <input type="checkbox"/> Puerto Rican ²¹⁰¹ <input type="checkbox"/> Cuban ²¹⁰² <input type="checkbox"/> Other Hispanic, Latino or Spanish Origin ²¹⁰³		

B. EPISODE OF CARE

Arrival Date/Time ³⁰⁰¹ : mm / dd / yyyy / hh:mm
Admitting Provider's Name, NPI ^{3050,3051,3052,3053} : _____ <i>Last Name, First Name, MI, NPI</i>
Attending Provider's Name, NPI ^{3055,3056,3057,3058} : _____, _____ <i>Last Name, First Name, MI, NPI, Last Name, First Name, MI, NPI</i>
Health Insurance ³⁰⁰⁵ : <input type="radio"/> No <input type="radio"/> Yes → If Yes, Payment Source ³⁰¹⁰ : (Select all that apply) <input type="checkbox"/> Private Health Insurance <input type="checkbox"/> Medicare (Fee-For-Service) <input type="checkbox"/> Medicare Advantage <input type="checkbox"/> Medicaid <input type="checkbox"/> Military Health Care <input type="checkbox"/> State-Specific Plan (non-Medicaid) <input type="checkbox"/> Indian Health Service <input type="checkbox"/> Non-US Insurance
MBI # ¹²⁸⁴⁶ :
Residence ¹³⁸⁰³ : <input type="radio"/> Home with No Health Aid <input type="radio"/> Home with Health Aid <input type="radio"/> Long Term Care <input type="radio"/> Other <input type="checkbox"/> Not Documented ¹³⁸⁰⁴

RESEARCH STUDY

Patient Enrolled in Research Study ³⁰²⁰ : <input type="radio"/> No <input type="radio"/> Yes → If Yes, Research Study Name ³⁰²⁵ , Research Study Patient ID ³⁰³⁰ : _____, _____	<input type="checkbox"/> Patient Restriction ³⁰³⁵
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TRANSCATHETER VALVE THERAPY (TVT) PATHWAY

TVT Pathway ¹³¹⁷¹ : <input type="checkbox"/> TAVR <input type="checkbox"/> TMVr <input type="checkbox"/> TMVR <input type="checkbox"/> Tricuspid Valve Procedure
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C. HISTORY AND RISK FACTORS

Height⁶⁰⁰⁰: _____ cm Weight⁶⁰⁰⁵: _____ kg

Number of Prior Open Heart Cardiac Surgeries¹³⁶⁹⁷: _____ (If the patient has had >4 prior surgeries and the number is not known, code 4 prior surgeries)

Heart Failure Hospitalization Within Past Year¹³⁷⁰⁷: No Yes Not Documented¹⁴²⁵³

Oxygen at Home¹³⁸⁸¹: No Yes

Immunocompromise Present¹³⁸⁸²: No Yes Currently on Dialysis¹³⁸⁸⁰ No Yes

Tobacco Use⁴⁶²⁵: Never Former Current-Every Day Current-Some Days Smoker – Current Status Unk Unk if ever smoked

→If any Current, Tobacco Type⁴⁶²⁶ (Select all that apply): Cigarettes Cigars Pipe Smokeless

→If Current Every Day and Cigarettes, Amount⁴⁶²⁷: Light tobacco use (<10/day) Heavy tobacco use (>=10/day)

HOME MEDICATIONS

CATEGORY	MEDICATION CODE ¹²²⁹⁷	MED PRESCRIBED	LOOP DIURETIC DOSE
ACE Inhibitors (Angiotensin Converting Enzyme)	Angiotensin Converting Enzyme Inhibitor	<input type="radio"/> No <input type="radio"/> Yes	
Aldosterone Antagonist	Aldosterone Antagonist	<input type="radio"/> No <input type="radio"/> Yes	
Angiotensin Receptor-Nepriylsin Inhibitor	Angiotensin Receptor-Nepriylsin Inhibitor	<input type="radio"/> No <input type="radio"/> Yes	
Anticoagulant	Anticoagulant	<input type="radio"/> No <input type="radio"/> Yes	
Antiplatelet	Aspirin	<input type="radio"/> No <input type="radio"/> Yes	
ARB (Angiotensin Receptors Blockers)	Angiotensin II Receptor Blocker	<input type="radio"/> No <input type="radio"/> Yes	
Beta Blockers	Beta Blocker	<input type="radio"/> No <input type="radio"/> Yes	
Diuretics	Diuretics Not Otherwise Specified	<input type="radio"/> No <input type="radio"/> Yes	
	Loop Diuretics	<input type="radio"/> No <input type="radio"/> Yes	_____ mg
	Thiazides	<input type="radio"/> No <input type="radio"/> Yes	
P2Y12 Inhibitors	P2Y12 Antagonist	<input type="radio"/> No <input type="radio"/> Yes	
Selective Sinus Node I/f Channel Inhibitor	Selective Sinus Node I/f Channel Inhibitor	<input type="radio"/> No <input type="radio"/> Yes	



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CONDITION AND PROCEDURE HISTORY INFORMATION (PATIENT HISTORY AND RISK FACTORS UP TO THE PROCEDURE)

CONDITION HISTORY ¹²⁹⁰³	OCCURRENCE ¹⁴²⁶⁴		DATE ¹⁴²⁵¹	
	NO	YES		
Atrial Fibrillation	<input type="radio"/>	<input type="radio"/>		→ If Yes, AFib Class ¹³¹⁷⁹ : <input type="radio"/> Paroxysmal <input type="radio"/> Persistent <input type="radio"/> Long-standing Persistent <input type="radio"/> Permanent → If Parox or persis, Recent AF (w/in 30 days) ¹⁴²⁴⁴ : <input type="radio"/> No <input type="radio"/> Yes
Atrial Flutter	<input type="radio"/>	<input type="radio"/>		→ If Yes, Recent Aflutter (w/in 30 days) ¹⁴²⁴⁵ : <input type="radio"/> No <input type="radio"/> Yes
Cardiomyopathy	<input type="radio"/>	<input type="radio"/>		→ If Yes, CM Type ⁴⁵⁷⁰ : <input type="checkbox"/> Ischemic <input type="checkbox"/> Non-ischemic <input type="checkbox"/> Other
Carotid Artery Stenosis	<input type="radio"/>	<input type="radio"/>		→ If Yes, Current Carotid Artery Stenosis ¹⁴²⁶⁵ : <input type="radio"/> No <input type="radio"/> Yes → If Yes, Location ¹⁴²³⁰ : <input type="radio"/> Right <input type="radio"/> Left <input type="radio"/> Bilateral <input type="checkbox"/> Location Not Documented ¹⁴³²⁹
Cerebrovascular Accident (any)	<input type="radio"/>	<input type="radio"/>	mm/dd/yyyy	
Cerebrovascular Disease	<input type="radio"/>	<input type="radio"/>		
Chronic Lung Disease	<input type="radio"/>	<input type="radio"/>		→ If Yes, Severity ¹³⁹⁰⁴ : <input type="radio"/> Mild <input type="radio"/> Moderate <input type="radio"/> Severe <input type="checkbox"/> Severity Not Documented ¹⁴⁴⁵⁹
Dementia - Moderate to Severe	<input type="radio"/>	<input type="radio"/>		
Diabetes Mellitus	<input type="radio"/>	<input type="radio"/>		→ If Yes, Therapy ¹⁴²³¹ : <input type="radio"/> None <input type="radio"/> Diet <input type="radio"/> Oral <input type="radio"/> Insulin <input type="radio"/> Other
Endocarditis	<input type="radio"/>	<input type="radio"/>		→ If Yes, Type ¹⁴²³² : <input type="radio"/> Treated <input type="radio"/> Active
Heart Failure	<input type="radio"/>	<input type="radio"/>		
Hostile Chest	<input type="radio"/>	<input type="radio"/>		
Hypertension	<input type="radio"/>	<input type="radio"/>		
Liver Disease	<input type="radio"/>	<input type="radio"/>		
Myocardial Infarction	<input type="radio"/>	<input type="radio"/>		→ If Yes, MI Timeframe ¹³¹⁷⁴ : <input type="radio"/> <30 days <input type="radio"/> ≥30 days
Peripheral Arterial Disease	<input type="radio"/>	<input type="radio"/>		
Porcelain Aorta	<input type="radio"/>	<input type="radio"/>		
Transient Ischemic Attack	<input type="radio"/>	<input type="radio"/>		
PROCEDURE HISTORY ¹²⁹⁰⁵	OCCURRENCE ¹⁴²⁶⁸		DATE ¹⁴²⁵²	
	NO	YES		
Aortic Valve Procedure	<input type="radio"/>	<input type="radio"/>	mm/dd/yyyy	
Aortic Valve Repair Surgery	<input type="radio"/>	<input type="radio"/>		
Aortic Valve Replacement Surgery	<input type="radio"/>	<input type="radio"/>		
Aortic Valve Replacement - Transcatheter	<input type="radio"/>	<input type="radio"/>		
Coronary Artery Bypass Graft	<input type="radio"/>	<input type="radio"/>	mm/dd/yyyy	
Implantable Cardioverter Defibrillator	<input type="radio"/>	<input type="radio"/>		→ If Yes, CRT-D ¹⁴²⁵⁹ : <input type="radio"/> No <input type="radio"/> Yes
Mitral Valve Procedure	<input type="radio"/>	<input type="radio"/>	mm/dd/yyyy	
Mitral Valve Annuloplasty Ring Surgery	<input type="radio"/>	<input type="radio"/>		→ If Yes, MV Ring Type ¹⁴²⁵⁷ : <input type="radio"/> Partial <input type="radio"/> Circumferential <input type="checkbox"/> Not Documented ¹⁴²⁵⁸
Mitral Valve Repair Surgery	<input type="radio"/>	<input type="radio"/>		
Mitral Valve Replacement Surgery	<input type="radio"/>	<input type="radio"/>		
Mitral Valve Transcatheter Intervention	<input type="radio"/>	<input type="radio"/>		→ If Yes, Type ¹⁴²⁶¹ : <input type="radio"/> Leaflet Clip <input type="radio"/> Direct Annuloplasty Intervention <input type="radio"/> Coronary Sinus Based Intervention <input type="radio"/> Valve-in-Native Valve <input type="radio"/> Valve-in-Valve <input type="radio"/> Other
PCI	<input type="radio"/>	<input type="radio"/>	mm/dd/yyyy	
Permanent Pacemaker	<input type="radio"/>	<input type="radio"/>	mm/dd/yyyy	→ If Yes, CRT ¹⁴²⁶⁰ <input type="radio"/> No <input type="radio"/> Yes
Pulmonic Valve Procedure	<input type="radio"/>	<input type="radio"/>		
Tricuspid Valve Procedure	<input type="radio"/>	<input type="radio"/>	mm/dd/yyyy	

D. LAB VISIT (COMPLETE FOR EACH LAB VISIT)

Procedures : TAVR TMVr TMVR Tricuspid Valve Procedure

→If Mitral Repair, **Mitral Leaflet Clip** No Yes

Procedure Room Entry Date/Time : mm / dd / yyyy HH:MM **Procedure Start Date/Time** : mm / dd / yyyy HH:MM

Procedure End Date/Time : mm / dd / yyyy HH:MM **Procedure Room Exit Date/Time** : mm / dd / yyyy HH:MM

PRESENTATION AND EVALUATION

CAD Presentation¹²¹⁷⁷: No Symptoms, No Angina Symptoms Unlikely to be Ischemic Stable Angina
 Unstable Angina Non-STEMI STEMI

Heart Failure (w/in 2 weeks)¹⁴²⁶⁶: No Yes

NYHA Class (w/in 2 weeks)¹²¹⁶³: I II III IV

Cardiogenic Shock (w/in 24 hrs)¹³¹⁷⁵: No Yes

Cardiac Arrest (w/in 24 hrs)¹⁴²⁶⁷: No Yes

STS Risk Score Type **STS Risk Score Measurement**¹⁴²⁷¹:

MV Repair: _____ %

MV Replace: _____ %

KCCQ-12 Performed : No Yes

→If Yes, **KCCQ-12** **Q1a:** _____ **Q1b:** _____ **Q1c:** _____ **Q2:** _____ **Q3:** _____ **Q4:** _____

: (see separate questionnaire)

Q5: _____ **Q6:** _____ **Q7:** _____ **Q8a:** _____ **Q8b:** _____ **Q8c:** _____ **KCCQ Summary Score** : (calculated)

Six Minute Walk Test : No Yes

→If Yes, **Test Date** : mm / dd / yyyy

→If Yes, **Total Distance** : _____ ft

→If No, **Reason** : Non-Cardiac Reason Cardiac Reason Patient Not Willing to Walk Not Performed By Site

PRE-PROCEDURE CLINICAL DATA (CLOSEST TO THE PROCEDURE)

Hemoglobin : _____ g/dL Not Drawn **BNP** : _____ pg/mL Not Performed

Sodium : _____ mEq/L Not Drawn **NT proBNP** : (or) _____ pg/mL Not Performed

Creatinine : _____ mg/dL Not Drawn

PRE-PROCEDURE ECG AND PULMONARY FUNCTION (CLOSEST TO THE PROCEDURE)

QRS Duration⁵⁰⁵⁵: _____ msec Ventricular Paced⁵⁰⁴⁵

FEV1 Predicted¹³²¹⁶: _____ % Not Performed¹³²¹⁷

DLCO (Predicted)¹³²¹⁸: _____ % Not Performed¹³²¹⁹

PRE-PROCEDURE MEDICATIONS (24 HOURS PRIOR TO THE PROCEDURE)

Positive Inotropes : No Yes

PRE-PROCEDURE DIAGNOSTIC CATH FINDINGS

Diagnostic Cath Performed : No Yes → If Yes, **Diagnostic Cath Date** : mm / dd / yyyy

Number of Diseased Vessels : None One Two Three Not Documented

Left Main Stenosis >=50% : No Yes Not Documented

Proximal LAD >=70% : No Yes Not Documented

Cardiac Output : _____ L/min Not Documented

Pulmonary Capillary Wedge Pressure : _____ mm Hg Not Documented

Pulmonary Artery Pressure (mean) : _____ mm Hg Not Documented

Pulmonary Artery Pressure (systolic) : _____ mm Hg Not Documented

Right Atrial Pressure (mean) : _____ mm Hg Not Documented



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PRE-PROCEDURE ECHOCARDIOGRAM FINDINGS

LVEF¹³³⁰⁵: _____ % LVEF Not Assessed¹³³⁰⁶

Left Ventricular Internal Systolic Dimension¹³⁷²¹: _____ cm Not Measured

Left Ventricular Internal Diastolic Dimension¹³⁷²³: _____ cm Not Measured¹³⁷²⁴

Left Ventricular End Systolic Volume¹³⁷²⁵: _____ mL Not Measured¹³⁷²⁷

Left Ventricular End Diastolic Volume¹³⁷²⁶: _____ mL Not Measured¹³⁷²⁸

Left Atrial Volume¹³⁷²⁹: _____ mL Not Measured¹³⁷³⁰ (OR) **LA Volume Index**¹³⁷³¹: _____ mL/m² Not Measured¹³⁷³²

Aortic Regurgitation¹³⁴⁷⁷: (highest) None Trace/Trivial Mild Moderate Severe

Aortic Stenosis¹³³⁰⁷: No Yes

Mitral Valve Disease¹³⁷⁰⁴: No Yes

→If Yes, **Mitral Regurgitation**¹³⁶⁷²: (highest) None Trace/Trivial Mild Moderate Moderate-Severe Severe

→If Yes, **Effective Regurgitant Orifice Area (EROA)**¹³⁷³⁷: _____ cm² →If EROA, **Method of Assessment**¹³⁷³⁸: 3D Planimetry PISA
 Quantitative Dopplar Other

→If Yes, **Mitral Stenosis**¹³³⁰⁸: No Yes

→If Yes, **MV Area**¹³³¹⁶: (smallest) _____ cm²

→If Yes, **MV Mean Gradient**¹³³¹⁷: (highest) _____ mm Hg

Mitral Valve Disease Etiology¹³⁴⁹⁰ (Check all that apply): Functional MR (Secondary) Degenerative MR (Primary)
 Post Inflammatory Endocarditis Other None

→If Functional, **Functional Type**¹³⁷⁴⁰: Ischemic Acute, Post Infarction Ischemic Chronic Non-Ischemic Dilated Cardiomyopathy
 Restrictive Cardiomyopathy Hypertrophic Cardiomyopathy
 Pure Annular Dilatation (w/Normal LV Systolic Fx) Not Documented¹³⁷⁴¹

→If Degenerative, **Leaflet Prolapse**¹³⁷⁴²: None Anterior Posterior Bileaflet Not Documented¹³⁷⁴⁵

→If Degenerative, **Leaflet Flail**¹³⁷⁴³: None Anterior Posterior Bileaflet Not Documented¹³⁷⁴⁶

→If Inflammatory, **Type**¹³⁷⁴⁸: Collagen Vascular Disease Drug Induced Idiopathic
 Prior Radiation Therapy Rheumatic Fever Not Documented¹³⁷⁵³

Leaflet Tethering¹³⁷⁴⁴: None Anterior Posterior Bileaflet Not Documented¹³⁷⁴⁷

Mitral Valve Annular Calcification¹³⁷⁴⁹: Yes No Not Documented¹³⁷⁵⁰

Mitral Leaflet Calcification¹³⁷⁵¹: Yes No Not Documented¹³⁷⁵²

Tricuspid Regurgitation¹³³¹⁸: (highest) None Trace/Trivial Mild Moderate Severe

PROCEDURE INFORMATION

Concomitant Procedures Performed⁷⁰⁶⁵: No Yes

→If Yes, **Procedure Type(s)**⁷⁰⁶⁶: (select the best option(s)): _____, _____, _____

Operator Name/NPI^{14476, 14477, 14478, 14479}: _____, _____, _____
Last Name, First Name, MI, NPI Last Name, First Name, MI, NPI

Procedure Status⁷⁰²⁵: Elective Urgent Emergency Salvage

Procedure Location¹²⁸⁷¹: Cardiac CathLab Hybrid CathLab Suite Hybrid OR Suite Other

Anesthesia Type¹³³³¹: General Anesthesia Deep sedation/Analgesia Moderate Sedation/Analgesia Minimal Sedation/Anxiolysis

Procedure Aborted¹³⁵⁰⁵: No Yes

→If Yes, **Reason**¹³⁵⁰⁶: Access Related Consent Issue Device Delivery System Malfunction
 Navigation Issue After Successful Access New Clinical Findings Patient Clinical Status
 System Issue Transseptal Access Related Other

→If Yes, **Action**¹³⁷⁵⁷: Conversion to Open Heart Surgery Scheduled Open Heart Surgery Rescheduled Transcatheter Procedure
 Converted to Clinical Trial Balloon Valvuloplasty Converted to Medical Therapy Other



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PROCEDURE INFORMATION (CONT.)

Conversion to Open Heart Surgery¹³⁵⁴²: No Yes
→If Yes, Reason¹³⁵⁴³: Access Related Cardiac Tamponade Inability to Position Device Device Embolization
 Valve Injury Other

Mechanical Support⁷⁴²²: No Yes **→If Yes, Device**⁷⁴²³: _____
→If Yes, Timing⁷⁴²⁴: In place at start of procedure Inserted during procedure and prior to intervention Inserted after intervention has begun Post Procedure

CardioPulmonary Bypass Used¹³⁵⁷⁹: No Yes
→If Yes, Status¹³⁵⁸⁰: Elective Emergency **→If Yes, CPB Time**¹³⁵⁸¹: _____ min

PROCEDURE MEDICATIONS (DURING THE PROCEDURE)

Positive Inotropes¹³⁶⁴⁴ No Yes

RADIATION AND CONTRAST

CODE ALL AVAILABLE MEASUREMENTS	Dose Area Product ¹⁴²⁷⁸ : _____ <input type="radio"/> Gy · cm ² <input type="radio"/> dGy · cm ² <input type="radio"/> cGy · cm ² <input type="radio"/> mGy · cm ² <input type="radio"/> μGy · M ²
	Cumulative Air Kerma ⁷²¹⁰ : _____ <input type="radio"/> mGy <input type="radio"/> Gy Fluoro Time ⁷²¹⁴ : _____ min Contrast Volume ⁷²¹⁵ : _____ mL

POST IMPLANT MITRAL VALVE DATA

MV Gradient (mean)¹³⁷⁶² (post implant): _____ mm Hg
Mitral Regurgitation¹⁴²⁷⁴ (post implant): None Trace/Trivial Mild Moderate Severe

TMVr PROCEDURE INFORMATION - INDICATIONS FOR MITRAL LEAFLET CLIP PROCEDURE

- Mitral Leaflet Clip Procedure Indication** (Check all that apply)¹³⁷⁹²:
- Refractory to Guideline Determined Optimal Medical Therapy
 - Frailty (assessed by in-person cardiac surgeon consultation)
 - Hostile Chest
 - Severe Pulmonary Hypertension
 - Severe Liver Disease (Cirrhosis or MELD score >12)
 - Porcelain Aorta (or extensively calcified ascending aorta)
 - Predicted STS MV Repair Operative Mortality Risk of >=6% (for patients deemed likely to undergo MV repair)
 - Predicted STS MV Replacement Operative Mort Risk >=8% (for patients deemed likely to undergo MV replacement)
 - Right Ventricular Dysfunction w/Severe Tricuspid Regurg
 - Major Bleeding Diathesis
 - Chemotherapy for Malignancy
 - AIDS
 - Immobility
 - High Risk of Aspiration
 - Severe Dementia
 - IMA at High Risk of Injury
 - Other

TMVr PROCEDURE INFORMATION

Guiding Cath Access Site¹³⁷⁹⁴: Right Femoral Vein Left Femoral Vein Jugular Vein Other Vein

Steerable Guide Cath Device ID¹³⁷⁹⁵: _____ **Steerable Guide Cath Serial Number**¹³⁷⁹⁶: _____

→If Procedure Aborted is No, TMVr DEVICES	DEVICE 1 ¹³⁵³³	DEVICE 2 ¹³⁵³³
Device ID ¹³⁷⁹⁷ :	Refer to Device List	Refer to Device List
Location ¹³⁸⁰⁰ :	<input type="radio"/> A1P1 <input type="radio"/> A2P2 <input type="radio"/> A3P3 <input type="radio"/> Other	<input type="radio"/> A1P1 <input type="radio"/> OA2P2 <input type="radio"/> A3P3 <input type="radio"/> Other
Device Implanted Successfully ¹³⁷⁹⁹ :	<input type="radio"/> No <input type="radio"/> Yes	<input type="radio"/> No <input type="radio"/> Yes
→If Yes, Device Serial # ¹³⁷⁹⁸ :		
→If Yes, UDI ¹⁴⁵⁷⁴ :		
→If Yes, Deployed Then Removed ¹³⁸⁰² :	<input type="radio"/> No <input type="radio"/> Yes	<input type="radio"/> No <input type="radio"/> Yes
→If No, Reason ¹³⁸⁰¹ :	<input type="radio"/> Adverse Event <input type="radio"/> Device Malfunction <input type="radio"/> Inability to Grasp Leaflets <input type="radio"/> Inability to Reduce MR <input type="radio"/> MV Injury <input type="radio"/> Mitral Stenosis <input type="radio"/> Other	<input type="radio"/> Adverse Event <input type="radio"/> Device Malfunction <input type="radio"/> Inability to Grasp Leaflets <input type="radio"/> Inability to Reduce MR <input type="radio"/> MV Injury <input type="radio"/> Mitral Stenosis <input type="radio"/> Other



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POST-PROCEDURE - INTRA OR POST-PROCEDURE EVENTS (COMPLETE FOR EACH PROCEDURE TYPE AND EVERY OCCURRENCE)

INTRA OR POST PROCEDURE EVENT(S) ¹²¹⁵³	EVENT(S) OCCURRED ⁹⁰⁰²	→ IF YES, EVENT DATE(S) ¹⁴²⁷⁵
ASD Defect Closure due to Transseptal Catheterization	O No O Yes	mm / dd / yyyy
Atrial Fibrillation	O No O Yes	mm / dd / yyyy
Bleeding – Access Site	O No O Yes	mm / dd / yyyy
Bleeding – Gastrointestinal	O No O Yes	mm / dd / yyyy
Bleeding – Genitourinary	O No O Yes	mm / dd / yyyy
Bleeding – Other	O No O Yes	mm / dd / yyyy
Bleeding - Hematoma at Access Site	O No O Yes	mm / dd / yyyy
Bleeding – Retroperitoneal	O No O Yes	mm / dd / yyyy
Cardiac Arrest	O No O Yes	mm / dd / yyyy
Cardiac Perforation	O No O Yes	mm / dd / yyyy
Cardiac Surgery or Intervention – Other Unplanned	O No O Yes	mm / dd / yyyy
Complete Leaflet Clip Detachment	O No O Yes	mm / dd / yyyy
Delivery System Component Embolization	O No O Yes	mm / dd / yyyy
Device Embolization	O No O Yes	mm / dd / yyyy
Device Thrombosis	O No O Yes	mm / dd / yyyy
Device Related Event – Other	O No O Yes	mm / dd / yyyy
Dialysis (New Requirement)	O No O Yes	mm / dd / yyyy
Endocarditis	O No O Yes	mm / dd / yyyy
Mitral Leaflet or Subvalvular Injury	O No O Yes	mm / dd / yyyy
Myocardial Infarction	O No O Yes	mm / dd / yyyy
Permanent Pacemaker	O No O Yes	mm / dd / yyyy
Reintervention – Mitral Valve	O No O Yes	mm / dd / yyyy
Single Leaflet Device Attachment	O No O Yes	mm / dd / yyyy
Stroke – Ischemic	O No O Yes	mm / dd / yyyy
Stroke – Hemorrhagic	O No O Yes	mm / dd / yyyy
Stroke – Undetermined	O No O Yes	mm / dd / yyyy
Transient Ischemic Attack (TIA)	O No O Yes	mm / dd / yyyy
Transseptal Complication	O No O Yes	mm / dd / yyyy
Vascular Complication – Major	O No O Yes	mm / dd / yyyy
Vascular Complication – Minor	O No O Yes	mm / dd / yyyy
Vascular Surgery or Intervention – Unplanned	O No O Yes	mm / dd / yyyy



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IN-HOSPITAL ADJUDICATION (COMPLETE FOR EACH ISCHEMIC, HEMORRHAGIC, UNDETERMINED STROKE, TIA OR MV RE-INTERVENTION)

Adjudication Event¹⁴³¹²:

Event Date¹⁴³¹³: mm / dd / yyyy

Ischemic Stroke(In-hospital)
 Hemorrhagic Stroke(In-hospital)
 Undetermined Stroke(In-hospital)
 TIA(In-hospital)
 Mitral Valve Re-intervention(In-hospital)

Status¹⁴³¹⁴:
 Alive
 Deceased
→If Deceased, Date of Death:¹⁴³¹⁵: mm / dd / yyyy

Clinical Comments¹⁴⁴⁶²:

→IF EVENT¹⁴³¹² = STROKE OR TIA (IN-HOSPITAL)

Symptom Onset Date¹⁴³¹⁶: mm / dd / yyyy

Neurologic Deficit with Rapid Onset¹⁴³¹⁷: No Yes

→If Yes, Clinical Presentation¹⁴³¹⁸: Stroke/TIA Non-Stroke

→If Stroke/TIA, Symptom Duration ≥ 24 hours¹⁴³¹⁹: No Yes

→If Stroke/TIA, Brain Imaging Performed¹⁴³²⁰: No Yes

→If Yes, Brain Imaging Type¹⁴³⁴⁹: CT CT w/Contrast MRI MRI w/Contrast Other (e.g. angiography)

→If Yes, Brain Imaging Findings¹⁴³⁵⁰: Infarct Hemorrhage No Deficit

→If Stroke/TIA, Event Related Sequelae¹⁴³⁵¹ (Select all that apply): Death Permanent Vegetative State

Altered Consciousness Blindness Aphasia Loss of Motor Function

Loss of Sensory Function Facial Paralysis Prolonged Length of Stay Other

→If Status=Alive, Discharge Location¹⁴³⁵²: Home Skilled Nursing Facility Extended Care/TCU/Rehab Other Discharge Location

→If Status=Alive, Patient Discharged to Prior Place of Living¹⁴⁴²¹: No Yes

→If Status=Deceased, Stroke Diagnosed During Autopsy¹⁴³⁵³: No Yes Info Not Available

→IF EVENT¹⁴³¹² = MITRAL VALVE RE-INTERVENTION (IN-HOSPITAL)

Mitral Valve Re-intervention Type¹⁴³⁶⁰:
 Surgical Replacement Surgical Repair Transcatheter Replacement
 Balloon Valvuloplasty Leaflet Clip Procedure Paravalvular Leak Closure
 Other Transcatheter Intervention

MV Re-intervention Indication¹⁴³⁶¹:
 Regurgitation Stenosis Device Embolization
 Endocarditis Device Thrombosis Valve Injury Other



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POST-PROCEDURE LABS AND ECG (COMPLETE FOR EACH PROCEDURE TYPE)

Hemoglobin (lowest) : _____ (g/dL) Not Drawn¹⁴²⁴³ **Creatinine (highest)** _____ (mg/dL) Not Drawn

12-Lead ECG Performed No Yes

→ If Yes, **12-Lead ECG Findings** (Check all that apply): No Significant Changes Pathological Q Wave New LBBB Cardiac Arrhythmia

POST-PROCEDURE ECHOCARDIOGRAM (COMPLETE FOR EACH PROCEDURE)

Echocardiogram Yes – TTE Yes - TEE Not Performed → If Yes, **Date** mm / dd / yyyy

→ If Yes, **Mitral Regurgitation (highest)** None Trace/Trivial Mild Moderate Moderate-Severe Severe

→ If Yes, **Effective Regurgitant Orifice Area (EROA)** _____ cm² → If EROA, **Method of Assessment** 3D Planimetry PISA

→ If Yes, **MV Mean Gradient (highest)** _____ mm Hg Quantitative Dopplar Other

E. DISCHARGE

Discharge Date¹⁰¹⁰⁰: mm / dd / yyyy

Discharge Provider Name, NPI^{10070,10072,10071,10073}: Last Name, First Name, MI, NPI

Discharge Status Alive Deceased

→ If Alive, **Cardiac Rehabilitation Referral** No - Reason Not Documented No - Medical Reason Documented
 No - Health Care System Reason Documented No - Patient-Oriented Reason Yes

→ If Alive, **Discharge Location** Home Skilled Nursing Facility Extended Care/TCU/Rehab
 Other Acute Care Hospital Left Against Medical Advice (AMA) Other Discharge Location

→ If Alive, **Hospice Care** No Yes

→ If Deceased, **Death During Procedure** No Yes

→ If Deceased, **Cause of Death**

- | | | |
|---|--|---|
| <input type="radio"/> Acute myocardial infarction | <input type="radio"/> Pulmonary | <input type="radio"/> Hemorrhage |
| <input type="radio"/> Sudden cardiac death | <input type="radio"/> Renal | <input type="radio"/> Non-cardiovascular procedure or surgery |
| <input type="radio"/> Heart failure | <input type="radio"/> Gastrointestinal | <input type="radio"/> Trauma |
| <input type="radio"/> Stroke | <input type="radio"/> Hepatobiliary | <input type="radio"/> Suicide |
| <input type="radio"/> Cardiovascular procedure | <input type="radio"/> Pancreatic | <input type="radio"/> Neurological |
| <input type="radio"/> Cardiovascular hemorrhage | <input type="radio"/> Infection | <input type="radio"/> Malignancy |
| <input type="radio"/> Other cardiovascular reason | <input type="radio"/> Inflammatory/Immunologic | <input type="radio"/> Other non-cardiovascular reason |

PRBCs Transfused : No Yes Note: Code the total # of units between start of the procedure and discharge

→ If Yes, **PRBCs Units Transfused** _____

DISCHARGE MEDICATIONS D/c meds are not required for patients who expired, discharged to "Other Acute Care Hospital," "AMA", or are receiving Hospice Care.

CATEGORY	MEDICATION CODE ¹⁰²⁰⁰	PRESCRIBED ¹⁰²⁰⁵				→ If Yes, LOOP DIURETIC DOSE ¹⁴⁵⁷⁶
		YES	NO- NO REASON	NO- MEDICAL REASON	NO- PT REASON	
ACE Inhibitors (Angiotensin Converting Enzyme)	Angiotensin Converting Enzyme Inhibitor	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Aldosterone Antagonist	Aldosterone Antagonist	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Anticoagulant	Direct Thrombin Inhibitor	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
	Warfarin	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Antiplatelet	Aspirin	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
ARB (Angiotensin Receptors Blockers)	Angiotensin II Receptor Blocker	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Beta Blockers	Beta Blocker	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Diuretics	Diuretics Not Otherwise Specified	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
	Loop Diuretics	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	_____ mg
	Thiazides	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Non-Vitamin K Dependent Oral Anticoagulant	Direct Factor Xa Inhibitor	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
P2Y12 Inhibitors	P2Y12 Antagonist	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	



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F. FOLLOW-UP Follow-up should be performed at the following intervals post-procedure: **30 days (- 7 days/+ 75), 1 year (+/- 60 days)**

Follow-up Assessment Date ¹¹⁰⁰⁰ : mm / dd / yyyy	
Reference Episode Arrival Date/Time ¹¹⁰⁰² : mm / dd / yyyy HH:MM	
Reference Episode Discharge Date ¹⁴³³⁸ : mm / dd / yyyy	
Reference Procedure Start Date/Time ¹¹⁰⁰¹ : mm / dd / yyyy HH:MM	
Reference Procedure Type ¹³⁷⁰⁵ : <input type="radio"/> TAVR <input type="radio"/> TMVr <input type="radio"/> TMVR <input type="radio"/> Tricuspid Valve Procedure	
Method(s) to Determine Status ¹¹⁰⁰³ : <input type="checkbox"/> Office Visit <input type="checkbox"/> Medical Records <input type="checkbox"/> Letter from Medical Provider <input type="checkbox"/> Phone Call <input type="checkbox"/> Social Security Death Master File <input type="checkbox"/> Hospitalized <input type="checkbox"/> Obituary List <input type="checkbox"/> CMS Linked Data <input type="checkbox"/> Other	
Follow-up Status ¹¹⁰⁰⁴ : <input type="radio"/> Alive <input type="radio"/> Deceased <input type="radio"/> Lost to Follow-up	
→ If Alive, Residence ¹³⁸⁰⁵ : <input type="radio"/> Home with No Health Aid <input type="radio"/> Home with Health Aid <input type="radio"/> Long Term Care <input type="radio"/> Other <input type="checkbox"/> Not Documented ¹⁴⁵¹¹	
→ If Deceased, Date of Death ¹¹⁰⁰⁶ : mm / dd / yyyy	
→ If Deceased, Cause of Death ¹¹⁰⁰⁷ : <input type="radio"/> Acute myocardial infarction <input type="radio"/> Pulmonary <input type="radio"/> Hemorrhage <input type="radio"/> Sudden cardiac death <input type="radio"/> Renal <input type="radio"/> Non-cardiovascular procedure or surgery <input type="radio"/> Heart failure <input type="radio"/> Gastrointestinal <input type="radio"/> Trauma <input type="radio"/> Stroke <input type="radio"/> Hepatobiliary <input type="radio"/> Suicide <input type="radio"/> Cardiovascular procedure <input type="radio"/> Pancreatic <input type="radio"/> Neurological <input type="radio"/> Cardiovascular hemorrhage <input type="radio"/> Infection <input type="radio"/> Malignancy <input type="radio"/> Other cardiovascular reason <input type="radio"/> Inflammatory/Immunologic <input type="radio"/> Other non-cardiovascular reason	

FOLLOW-UP CLINICAL ASSESSMENT	
Hemoglobin ¹³⁷⁷⁵ : _____ g/dL <input type="checkbox"/> Not Drawn ¹⁴³²⁶	Creatinine ¹³³¹⁰ : _____ mg/dL <input type="checkbox"/> Not Drawn ¹³³¹¹
NYHA Classification ¹³⁶⁸⁸ : <input type="radio"/> I <input type="radio"/> II <input type="radio"/> III <input type="radio"/> IV <input type="checkbox"/> Not Documented ¹⁴³³³	
12-Lead ECG Performed ¹³⁶⁸⁹ : <input type="radio"/> No <input type="radio"/> Yes	
→ If Yes, 12-Lead ECG Findings ¹³⁶²¹ (Check all that apply): <input type="checkbox"/> No Significant Changes <input type="checkbox"/> Pathological Q Wave <input type="checkbox"/> New LBBB <input type="checkbox"/> Cardiac Arrhythmia	

FOLLOW-UP IMAGING – ECHOCARDIOGRAM	
Echocardiogram ¹³⁴⁹² : <input type="radio"/> Yes - TTE <input type="radio"/> Yes - TEE <input type="checkbox"/> Not Performed ¹⁴⁵¹²	→ If Yes, Date ¹³⁵⁹³ mm / dd / yyyy
→ If Yes, LVEF ¹³⁶⁹⁰ : _____ % <input type="checkbox"/> LVEF Not Assessed ¹³⁶⁹¹	
→ If Yes, Mitral Regurgitation ¹³⁶⁷³ : <input type="radio"/> None <input type="radio"/> Trace/Trivial <input type="radio"/> Mild <input type="radio"/> Moderate <input type="radio"/> Moderate-Severe <input type="radio"/> Severe	
→ If Yes, MV Mean Gradient ¹³⁷⁷⁸ : (highest) _____ mm Hg	
→ If Yes, Effective Regurgitant Orifice Area (EROA) ¹³⁷⁶⁸ : _____ cm ²	→ If EROA, Method of Assessment ¹³⁷⁸⁰ : <input type="radio"/> 3D Planimetry <input type="radio"/> PISA <input type="radio"/> Quantitative Dopplar <input type="radio"/> Other
→ If Yes, Left Ventricular Internal Systolic Dimension ¹³⁷⁸³ : _____ cm <input type="checkbox"/> Not Measured ¹⁴⁵³⁶	
→ If Yes, Left Ventricular Internal Diastolic Dimension ¹³⁷⁸⁴ : _____ cm <input type="checkbox"/> Not Measured ¹⁴⁵³⁷	
→ If Yes, Left Ventricular End Systolic Volume ¹³⁷⁸⁶ : _____ mL <input type="checkbox"/> Not Measured ¹⁴⁵³⁹	
→ If Yes, Left Ventricular End Diastolic Volume ¹³⁷⁸⁵ : _____ mL <input type="checkbox"/> Not Measured ¹⁴⁵³⁸	
→ If Yes, Left Atrial Volume ¹³⁷⁸⁷ : _____ mL <input type="checkbox"/> Not Measured ¹⁴⁵⁴⁰ (OR) LA Volume Index ¹³⁷⁸⁸ : _____ mL/m ² <input type="checkbox"/> Not Measured ¹⁴⁵⁸²	

FOLLOW-UP SIX MINUTE WALK TEST AND KCCQ	
Six Minute Walk Test ¹³⁷⁸⁹ : <input type="radio"/> No <input type="radio"/> Yes	
→ If Yes, Test Date ¹³⁷⁹⁰ : mm / dd / yyyy	→ If Yes, Total Distance ¹⁴³²⁵ : _____ ft
→ If No, Reason ¹⁴²⁶³ : <input type="radio"/> Non-Cardiac Reason <input type="radio"/> Cardiac Reason <input type="radio"/> Patient Not Willing to Walk <input type="radio"/> Not Performed by Site	
KCCQ-12 Performed ¹³⁸⁴⁵ : <input type="radio"/> No <input type="radio"/> Yes → If Yes, KCCQ-12 Date ¹³⁸⁴⁴ : mm / dd / yyyy	
→ If Yes, KCCQ-12 ^{13847, 69, 50, 52, 54, 56, 58} (see separate questionnaire) Q1a: _____ Q1b: _____ Q1c: _____ Q2: _____ Q3: _____ Q4: _____ Q5: _____ Q6: _____ Q7: _____ Q8a: _____ Q8b: _____ Q8c: _____	
KCCQ Summary Score ¹⁴⁵³⁵ : (calculated)	



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FOLLOW-UP MEDICATIONS

CATEGORY	MEDICATION CODE ¹¹⁹⁹⁰	PRESCRIBED ¹³⁶⁹⁶				→ If Yes, LOOP DIURETIC DOSE ¹⁴⁵⁷⁷
		YES	No- NO REASON	No- MEDICAL REASON	No- PT REASON	
ACE Inhibitors (Angiotensin Converting Enzyme)	Angiotensin Converting Enzyme Inhibitor	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Aldosterone Antagonist	Aldosterone Antagonist	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Anticoagulant	Direct Thrombin Inhibitor	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
	Warfarin	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Antiplatelet	Aspirin	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
ARB (Angiotensin Receptors Blockers)	Angiotensin II Receptor Blocker	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Beta Blockers	Beta Blocker	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Diuretics	Diuretics Not Otherwise Specified	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
	Loop Diuretics	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	_____ mg
	Thiazides	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Non-Vitamin K Dependent Oral Anticoagulant	Direct Factor Xa Inhibitor	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
P2Y12 Inhibitor	P2Y12 Antagonist	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	

FOLLOW-UP EVENTS SPECIFY THE EVENTS (AND EVENT DATES) THAT OCCURRED BETWEEN DISCHARGE AND 30 DAY (FIRST) FOLLOW-UP (FU), OR BETWEEN FU ASSESSMENT DATE #1 AND #2.

EVENT(S) ¹²⁹³³	EVENT(S) OCCURRED ¹⁴²⁷⁶	→ IF YES, EVENT DATE(S) ¹⁴²⁷⁷
ASD Defect Closure due to Transseptal Catheterization	<input type="radio"/> No <input type="radio"/> Yes	mm / dd / yyyy
Atrial Fibrillation	<input type="radio"/> No <input type="radio"/> Yes	mm / dd / yyyy
Bleeding – Life Threatening	<input type="radio"/> No <input type="radio"/> Yes	mm / dd / yyyy
Bleeding – Major	<input type="radio"/> No <input type="radio"/> Yes	mm / dd / yyyy
Cardiac Surgery or Intervention – Other Unplanned	<input type="radio"/> No <input type="radio"/> Yes	mm / dd / yyyy
Device Embolization	<input type="radio"/> No <input type="radio"/> Yes	mm / dd / yyyy
Device Thrombosis	<input type="radio"/> No <input type="radio"/> Yes	mm / dd / yyyy
Device Related Event – Other	<input type="radio"/> No <input type="radio"/> Yes	mm / dd / yyyy
Dialysis (New Requirement)	<input type="radio"/> No <input type="radio"/> Yes	mm / dd / yyyy
Endocarditis	<input type="radio"/> No <input type="radio"/> Yes	mm / dd / yyyy
Myocardial Infarction	<input type="radio"/> No <input type="radio"/> Yes	mm / dd / yyyy
Permanent Pacemaker	<input type="radio"/> No <input type="radio"/> Yes	mm / dd / yyyy
Readmission – Cardiac (Not Heart Failure)	<input type="radio"/> No <input type="radio"/> Yes	mm / dd / yyyy
Readmission – Heart Failure (Complete Adjudication)	<input type="radio"/> No <input type="radio"/> Yes	mm / dd / yyyy
Readmission – Non-Cardiac	<input type="radio"/> No <input type="radio"/> Yes	mm / dd / yyyy
Reintervention – Mitral Valve (Complete Adjudication)	<input type="radio"/> No <input type="radio"/> Yes	mm / dd / yyyy
Single Leaflet Device Attachment	<input type="radio"/> No <input type="radio"/> Yes	mm / dd / yyyy
Stroke – Ischemic	<input type="radio"/> No <input type="radio"/> Yes	mm / dd / yyyy
Stroke – Hemorrhagic	<input type="radio"/> No <input type="radio"/> Yes	mm / dd / yyyy
Stroke – Undetermined	<input type="radio"/> No <input type="radio"/> Yes	mm / dd / yyyy
Transient Ischemic Attack (TIA)	<input type="radio"/> No <input type="radio"/> Yes	mm / dd / yyyy
Vascular Complication – Major	<input type="radio"/> No <input type="radio"/> Yes	mm / dd / yyyy
Vascular Complication – Minor	<input type="radio"/> No <input type="radio"/> Yes	mm / dd / yyyy
Vascular Surgery or Intervention – Unplanned	<input type="radio"/> No <input type="radio"/> Yes	mm / dd / yyyy

