

BMC2

## MISHC TMVR Report Dictionary

A guide that provides line item detail for MISHC TMVR hospital reports. Updated 2/1/2023

---

## Dashboard

---

---

### TMVR Discharges

---

Numerator: The number of discharges that were discharged during the reporting period undergoing one or more TMVR procedures.

Denominator: The number of discharges undergoing one or more TMVR procedures that were discharged during the reporting period.

(This will always show as 100%.)

---

### TMVR Procedures

---

Numerator: The total number of TMVR procedures that were discharged during the reporting period.

Denominator: The total number of TMVR procedures that were discharged during the reporting period.

(This will always show as 100%.)

---

### Post-Procedure Length of Stay - mean, median, st. dev.

---

Computes the mean, median, and standard deviation of the number of days a patient remained hospitalized after their first TMVR procedure that were discharged during the reporting period. Computed as the difference between the Procedure Start Date, SEQ #7000, and Discharge Date, SEQ #10100.

---

### Outcome Metrics

---

#### Deceased

---

Numerator: The number of TMVR discharges that were discharged during the reporting period where Discharge Status, SEQ #10105, is documented as Deceased.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

#### Myocardial Infarction

---

Numerator: The number of TMVR discharges that were discharged during the reporting period where Intra or Post-Procedure Events, SEQ #12153, and Myocardial Infarction are documented as Yes, SEQ #9002.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

#### Atrial Fibrillation

---

Numerator: The number of TMVR discharges that were discharged during the reporting period where Intra or Post-Procedure Events, SEQ #12153, and Atrial Fibrillation are documented as Yes, SEQ #9002.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

#### TIA

---

Numerator: The number of TMVR discharges that were discharged during the reporting period where Intra or Post-Procedure Events, SEQ #12153, and Transient Ischemic Attack, TIA, are documented as Yes, SEQ #9002.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

#### Stroke (Any)

---

Numerator: The number of TMVR discharges that were discharged during the reporting period where Intra or Post-Procedure Events, SEQ #12153, and Stroke - Ischemic, Stroke - Hemorrhagic or Stroke - Undetermined are documented as Yes, SEQ #9002.

---

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

## Acute Kidney Injury (stage 3)

---

Numerator: The total number of TMVR discharges that were discharged during the reporting period with at least one of the following:

1. The difference between pre-procedure Creatinine, SEQ #605, and Creatinine (highest), SEQ #13764, is  $\geq 300\%$ ; OR
2. Pre-procedure Creatinine, SEQ #6050, is  $\geq 4$  mg/dL AND the difference between pre-procedure Creatinine and post-procedure Creatinine (highest or discharge) is  $\geq 0.5$ ; OR
3. Event code of Dialysis - New Requirement, SEQ #12153

Exclusion: Currently on Dialysis (pre-procedure), SEQ #13880, is documented as Yes.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

## CIN

---

CIN is defined as Post-Procedure Creatinine (highest), SEQ #13764, minus Pre-Procedure Creatinine, SEQ #6050, is  $\geq 0.5$ .

Numerator: The number of TMVR discharges that were discharged during the reporting period where all of the following things are true:

- At least one TMVR procedure has a value for Pre-Procedure Creatinine, SEQ #6050.
- The TMVR procedure record (with a pre-procedure creatinine value) has a value for Highest Creatinine, SEQ #13764.
- The patient is not marked as Currently on Dialysis, SEQ # 13880, pre-procedure.

Denominator: The total number of TMVR discharges that were discharged during the reporting period. Excluding Currently on Dialysis (pre-procedure), SEQ #13880 documented as Yes.

---

## Disabling or Life Threatening Bleed

---

Numerator: The total number of TMVR discharges that were discharged during the reporting period with at least one of the following:

1. Intra or post-procedure event(s), SEQ #12153, of any of the following bleeding events: bleeding at access site, hematoma at access site, retroperitoneal bleed, GI bleed, GU bleed, Other bleed, or hemorrhagic stroke AND at least one of the following:
  - a. Difference between pre-procedure hemoglobin, SEQ #6030, and lowest post-procedure hemoglobin, SEQ #13763, is  $\geq 5$  g/dL OR
  - b. PRBCs Transfused, SEQ #9275, is Yes and the PRBC Units Transfused, SEQ #13670, is  $\geq 4$  units OR
2. Intra or Post-Procedure Event(s), SEQ #12153, of Unplanned Vascular Surgery or Intervention = Yes AND the difference between pre-procedure and post-procedure hemoglobin is  $\geq 5$  g/dL OR
3. Discharge Status, SEQ #10105, = Deceased and Primary Cause of Death, SEQ #10125, = Cardiovascular Hemorrhage or Hemorrhage.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

## Major Vascular Complication

---

Numerator: The number of TMVR discharges that were discharged during the reporting period where Intra or Post-Procedure Events, SEQ #12153, and Vascular Complication - Major are documented as Yes, SEQ #9002.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

## ASD Requiring Closure

---

Numerator: The number of TMVR discharges that were discharged during the reporting period where Intra or Post-Procedure Events, SEQ #12153, and ASD Defect Closure due to Transeptal Catheterization are documented as Yes, SEQ #9002.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

## Mitral Valve Reintervention

---

Numerator: The number of TMVR discharges that were discharged during the reporting period where Intra or Post-Procedure Events, SEQ #12153, and Reintervention - Mitral Valve are documented as Yes, SEQ #9002.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

## Procedural Metrics

### Post-Procedure Mitral Regurgitation (>=2+)

Numerator: The number of TMVR discharges that were discharged during the reporting period in which the Echocardiogram Performed, SEQ #13592, is documented as Yes, TTE or TEE, and Mitral Regurgitation, SEQ #13494, is documented as moderate, moderate-severe or severe. Mitral Regurgitation is a child field of Echocardiogram Performed.

Denominator: The total number of TMVR discharges that were discharged during the reporting period. Excluding discharges that had Death During Procedure, SEQ #10120, documented as Yes, or Procedure Aborted, SEQ #13505, documented as Yes.

Procedures without a value entered for Aortic Regurgitation will be reported as None.

### Fluoro Time

Computes the mean, median and standard deviation of the Fluoro Time, SEQ #7214, reported in minutes of all TMVR procedures that were discharged during the reporting period.

### Transfusion

Numerator: The number of TMVR procedures that were discharged during the reporting period in which PRBCs Transfused, SEQ #9275, is documented as Yes.

Denominator: The total number of TMVR procedures that were discharged during the reporting period.

### Bleeding/Vasc Comps

Numerator: The number of TMVR procedures that were discharged during the reporting period in which the Intra or Post-Procedure Event SEQ #12153, Bleeding - Access Site OR Bleeding - Hematoma at Access Site OR Bleeding - Retroperitoneal and Event Occurred, SEQ #9002, is documented as Yes.

Denominator: The total number of TMVR procedures that were discharged during the reporting period.

### KCCQ Completion at Baseline

Numerator: The number of TMVR discharges that were discharged during the reporting period in which KCCQ-12 Performed, SEQ #13843, is documented as Yes.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

### KCCQ Completion at 30 Days

Numerator: The number of TMVR discharges that were discharged during the reporting period in which KCCQ-12 Performed, SEQ #13845, is documented as Yes.

Denominator: The total number of TMVR discharges undergoing one or more TMVR procedures during the reporting period in which Discharge Status, SEQ #10105, is documented as Alive and Procedure Aborted, SEQ #13505, is documented as No.

### KCCQ at Baseline and 30 Days

Numerator: The number of TMVR discharges that were discharged during the reporting period that had a KCCQ-12 submitted for baseline AND 30 days for the same patient.

Denominator: The total number of TMVR discharges that were discharged during the reporting period that did not have a Discharge

Status, SEQ #10105, documented as Deceased on the base record.

Exclusions: TMVR procedures where Procedure Aborted, SEQ #13505, is documented as Yes.

---

## **NYHA Class Documented at 30 Days**

---

Numerator: The total number of TMVR discharges that were discharged during the reporting period where NYHA Class, SEQ #13688, is documented as I, II, III, or IV.

Denominator: The total number of TMVR discharges that were discharged during the reporting period where Discharge Status, SEQ #10105, is documented as Alive.

Excluding TMVR discharges where the only TMVR procedure, or all TMVR procedures, documented Procedure Aborted, SEQ #13505, as Yes.

---

## **Six Minute Walk Test Performed**

---

Numerator: The number of TMVR discharges that were discharged during the reporting period in which Six Minute Walk Test, SEQ #13710, is documented as Performed.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

## Demographics

---

---

### Sex - Male

---

Numerator: The number of TMVR discharges that were discharged during the reporting period where Sex, SEQ #2060, was documented as Male.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

### Age - mean, median, st. dev.

---

Computes the mean, median, and standard deviation of the Age of the patients that were discharged during the reporting period.

---

### Race

---

#### White

---

Numerator: The number of TMVR discharges that were discharged during the reporting period where Race was documented as White, SEQ #2070.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

#### Black/African American

---

Numerator: The number of TMVR discharges that were discharged during the reporting period where Race was documented as Black/African American, SEQ #2071.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

#### American Indian/Alaskan Native

---

Numerator: The number of TMVR discharges that were discharged during the reporting period where Race was documented as American Indian/Alaskan Native, SEQ #2073.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

#### Asian

---

Numerator: The number of TMVR discharges that were discharged during the reporting period where Race was documented as Asian, SEQ #2072.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

#### Native Hawaiian/Pacific Islander

---

Numerator: The number of TMVR discharges that were discharged during the reporting period where Race was documented as Native Hawaiian/Pacific Islander, SEQ #2074.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

#### Hispanic or Latino Ethnicity

---

Numerator: The number of TMVR discharges that were discharged during the reporting period where Ethnicity was documented as Hispanic or Latino, SEQ # 2076.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

## Residence (on arrival)

---

### Home with No Health-Aid

---

Numerator: The number of TMVR discharges that were discharged during the reporting period where Residence, SEQ #13803, was documented as Home with No Health Aid.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

### Home with Health Aid

---

Numerator: The number of TMVR discharges that were discharged during the reporting period where Residence, SEQ #13803, was documented as Home with Health Aid.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

### Long Term Care

---

Numerator: The number of TMVR discharges that were discharged during the reporting period where Residence, SEQ #13803, was documented as Long Term Care.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

### Other

---

Numerator: The number of TMVR discharges that were discharged during the reporting period where Residence, SEQ #13803, was documented as Other.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

### Not Documented

---

Numerator: The number of TMVR discharges that were discharged during the reporting period where Residence, SEQ #13804, was documented as Not Documented.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

## History and Risk Factors

---

---

### Active Endocarditis

---

Numerator: The total number of TMVR discharges that were discharged during the reporting period with Endocarditis documented as Active, SEQ #14232, in Condition History, SEQ #12903.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

---

### Heart Failure Hospitalization w/in Past Year

---

Numerator: The total number of TMVR discharges that were discharged during the reporting period with Heart Failure Hospitalization within Past Year documented as Yes, SEQ #13707.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

---

### Permanent Pacemaker

---

Numerator: The total number of TMVR discharges that were discharged during the reporting period with Permanent Pacemaker documented as Yes, SEQ #14268, in Procedure History, SEQ #12905.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

---

### ICD

---

Numerator: The total number of TMVR discharges that were discharged during the reporting period with Implantable Cardioverter Defibrillator documented as Yes, SEQ #14268, in Procedure History, SEQ #12905.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

---

### PCI

---

Numerator: The total number of TMVR discharges that were discharged during the reporting period with PCI documented as Yes, SEQ #14264, in Condition History, SEQ #12903.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

---

### CABG

---

Numerator: The total number of TMVR discharges that were discharged during the reporting period with CABG documented as Yes, SEQ #14268, in Procedure History, SEQ #12905.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

---

### Aortic Valve Procedure

---

---

#### AV Replacement - Surgical

---

Numerator: The total number of TMVR discharges that were discharged during the reporting period with Aortic Valve Replacement Surgery documented as Yes, SEQ #14268, in Procedure History, SEQ #12905.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

---

#### AV Repair - Surgical

---

Numerator: The total number of TMVR discharges that were discharged during the reporting period with Aortic Valve Repair Surgery documented as Yes, SEQ #14268, in Procedure History, SEQ #12905.



Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

## **AV Transcatheter Replacement**

---

Numerator: The total number of TMVR discharges that were discharged during the reporting period with Aortic Valve Replacement - Transcatheter documented as Yes, SEQ #14268, in Procedure History, SEQ #12905.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

## **Mitral Valve Procedure**

---

### **MV Replacement - Surgical**

---

Numerator: The total number of TMVR discharges that were discharged during the reporting period with Mitral Valve Replacement - Surgical documented as Yes, SEQ #14268, in Procedure History, SEQ #12905.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

### **MV Repair - Surgical**

---

Numerator: The total number of TMVR discharges that were discharged during the reporting period with Mitral Valve Repair Surgery documented as Yes, SEQ #14268, in Procedure History, SEQ #12905.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

### **MV Annuloplasty Ring - Surgical**

---

Numerator: The total number of TMVR discharges that were discharged during the reporting period with Mitral Valve Annuloplasty Ring Surgery documented as Yes, SEQ #14268, in Procedure History, SEQ #12905.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

### **MV Transcatheter Intervention**

---

Numerator: The total number of TMVR discharges that were discharged during the reporting period with Mitral Valve Transcatheter Intervention documented as Yes, SEQ #14268, in Procedure History, SEQ #12905.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

## **Tricuspid Valve Procedure**

---

Numerator: The total number of TMVR discharges that were discharged during the reporting period with Tricuspid Valve Procedure documented as Yes, SEQ #14268, in Procedure History, SEQ #12905.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

## **Pulmonic Valve Procedure**

---

Numerator: The total number of TMVR discharges that were discharged during the reporting period with Pulmonic Valve Procedure documented as Yes, SEQ #14268, in Procedure History, SEQ #12905.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

## **BMI - mean, median, st. dev.**

---

Computes the mean, median, and standard deviation of the BMI of the patients that were discharged during the reporting period where Height, SEQ #6000, and Weight, SEQ #6005, have values entered.

---

## CVA

---

Numerator: The total number of TMVR discharges that were discharged during the reporting period with Cerebrovascular Accident (any) documented as Yes, SEQ #14264 in Condition History, SEQ #12903.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

## TIA

---

Numerator: The total number of TMVR discharges that were discharged during the reporting period with Transient Ischemic Attack documented as Yes, SEQ #14264 in Condition History, SEQ #12903.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

## Carotid Stenosis (among assessed)

---

Numerator: The total number of TMVR discharges that were discharged during the reporting period with Carotid Artery Stenosis documented as Yes, SEQ #14264 in Condition History, SEQ #12903.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

## PAD

---

Numerator: The total number of TMVR discharges that were discharged during the reporting period with Peripheral Arterial Disease documented as Yes, SEQ #14264 in Condition History, SEQ #12903.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

## Liver Disease

---

Numerator: The total number of TMVR discharges that were discharged during the reporting period with Liver Disease documented as Yes, SEQ #14264 in Condition History, SEQ #12903.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

## Dementia - Moderate to Severe

---

Numerator: The total number of TMVR discharges that were discharged during the reporting period with Dementia - Moderate to Severe documented as Yes, SEQ #14264 in Condition History, SEQ #12903.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

## Current Smoker

---

Numerator: The total number of TMVR discharges that were discharged during the reporting period with Tobacco Use documented as Current - Every Day or Current - Some Days, SEQ #4625.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

## HTN

---

Numerator: The total number of TMVR discharges that were discharged during the reporting period with Hypertension documented as Yes, SEQ #14264 in Condition History, SEQ #12903.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

## Diabetes Mellitus

---

Numerator: The total number of TMVR discharges that were discharged during the reporting period with Diabetes Mellitus documented as Yes, SEQ #14264 in Condition History, SEQ #12903.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

## Currently on Dialysis

---

Numerator: The total number of TMVR discharges that were discharged during the reporting period with Currently on Dialysis documented as Yes, SEQ #13880.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

## Pre-Procedure Creatinine > 2.0 mg/dL

---

Numerator: The total number of TMVR discharges that were discharged during the reporting period with a Pre-Procedure Creatinine documented as >2.0 mg/dL, SEQ #6050.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

## Chronic Lung Disease

---

Numerator: The total number of TMVR discharges that were discharged during the reporting period with Chronic Lung Disease documented as Yes, SEQ #14264 in Condition History, SEQ #12903.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

### Mild

---

Numerator: The total number of TMVR discharges that were discharged during the reporting period with Chronic Lung Disease documented as Yes, SEQ #14264 in Condition History, SEQ #12903 and Mild documented in Severity, SEQ #13904.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

### Moderate

---

Numerator: The total number of TMVR discharges that were discharged during the reporting period with Chronic Lung Disease documented as Yes, SEQ #14264 in Condition History, SEQ #12903 and Moderate documented in Severity, SEQ #13904.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

### Severe

---

Numerator: The total number of TMVR discharges that were discharged during the reporting period with Chronic Lung Disease documented as Yes, SEQ #14264 in Condition History, SEQ #12903 and Severe documented in Severity, SEQ #13904.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

### Severity Not Documented

---

Numerator: The total number of TMVR discharges that were discharged during the reporting period with Chronic Lung Disease documented as Yes, SEQ #14264 in Condition History, SEQ #12903 and Severity Not Documented documented in Severity, SEQ #14459.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

## Home Oxygen

---

Numerator: The total number of TMVR discharges that were discharged during the reporting period with Oxygen at Home documented as Yes, SEQ #13881.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

## Hostile Chest

---

Numerator: The total number of TMVR discharges that were discharged during the reporting period with Hostile Chest documented as Yes, SEQ #14264 in Condition History, SEQ #12903.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

## Immunocompromise Present

---

Numerator: The total number of TMVR discharges that were discharged during the reporting period with Immunocompromise Present documented as Yes, SEQ #13882.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

## Pre-Procedure Status

---

---

### MI - w/in 30 days

---

Numerator: The total number of TMVR discharges that were discharged during the reporting period with Myocardial Infarction documented as Yes SEQ #14264 in Condition History SEQ #12903 and <30 days in MI Timeframe, SEQ #13174.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

### Cardiomyopathy - Ischemic

---

Numerator: The total number of TMVR discharges that were discharged during the reporting period with Cardiomyopathy documented as Yes, SEQ #14264, in Condition History, SEQ #12903, and CM Type, SEQ #4570, documented as Ischemic, SEQ #13174.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

### Cardiomyopathy - Non-Ischemic

---

Numerator: The total number of TMVR discharges that were discharged during the reporting period with Cardiomyopathy documented as Yes, SEQ #14264, in Condition History, SEQ #12903, and CM Type, SEQ #4570, documented as Non-Ischemic, SEQ #13174.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

### Heart Failure w/in 2 Weeks

---

Numerator: The total number of TMVR discharges that were discharged during the reporting period with Heart Failure (w/in 2 weeks) documented as Yes, SEQ #14266.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

## NYHA Class

---

### Class I

---

Numerator: The number of TMVR discharges that were discharged during the reporting period in which NYHA Class is documented as I, SEQ #12163.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

### Class II

---

Numerator: The number of TMVR discharges that were discharged during the reporting period in which NYHA Class is documented as II, SEQ #12163.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

### Class III

---

Numerator: The number of TMVR discharges that were discharged during the reporting period in which NYHA Class is documented as III, SEQ #12163.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

### Class IV

---

Numerator: The number of TMVR discharges that were discharged during the reporting period in which NYHA Class is documented as IV, SEQ #12163.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

## Cardiogenic Shock w/in 24 hrs

---

Numerator: The number of TMVR discharges that were discharged during the reporting period in which Cardiogenic Shock is documented as Yes, SEQ #13175.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

## Cardiac Arrest w/in 24 hrs

---

Numerator: The number of TMVR discharges that were discharged during the reporting period in which Cardiac Arrest (w/in 24 hrs) is documented as Yes, SEQ #14267.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

## Porcelain Aorta

---

Numerator: The number of TMVR discharges that were discharged during the reporting period in which Porcelain Aorta is documented as Yes, SEQ #14264, in Condition History, SEQ #12903.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

## Atrial Fibrillation

---

Numerator: The total number of TMVR discharges that were discharged during the reporting period with Atrial Fibrillation documented as Yes, SEQ #14264 in Condition History, SEQ #12903.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

## STS Risk Score (MV Replacement)

---

---

### Low - Intermediate Risk (<8%)

---

Numerator: The number of TMVR procedures that were discharged during the reporting period in which the STS Risk Score Type, SEQ #13698, MV Replace, is documented as <8%.

Denominator: The total number of TMVR procedures that were discharged during the reporting period.

---

### High Risk (>=8%)

---

Numerator: The number of TMVR procedures that were discharged during the reporting period in which the STS Risk Score Type, SEQ #13698, MV Replace, is documented as > or = to 8%.

Denominator: The total number of TMVR procedures that were discharged during the reporting period.

---

## Quality of Life

---

---

### Six Minute Walk Test

---

---

#### Performed

---

Numerator: The number of TMVR discharges that were discharged during the reporting period in which Six Minute Walk Test, SEQ #13710 is documented as Performed.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

#### Not Performed

---

Numerator: The number of TMVR discharges that were discharged during the reporting period in which Six Minutes Walk Test, SEQ #13710 is documented as Not Performed.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

#### Non-Cardiac Reason

---

Numerator: The number of TMVR discharges that were discharged during the reporting period in which Six Minute Walk Test, SEQ #13710 is documented as Not Performed, and Reason SEQ #14262 is documented as Non-Cardiac Reason.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

#### Cardiac Reason

---

Numerator: The number of TMVR discharges that were discharged during the reporting period in which Six Minute Walk Test, SEQ #13710 is documented as Not Performed, and Reason SEQ #14262 is documented as Cardiac Reason.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

#### Patient Not Willing to Walk

---

Numerator: The number of TMVR discharges that were discharged during the reporting period in which Six Minute Walk Test, SEQ #13710 is documented as Not Performed, and Reason SEQ #14262 is documented as Patient Not Willing to Walk.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

#### Not Performed by Site

---

Numerator: The number of TMVR discharges that were discharged during the reporting period in which Six Minute Walk Test, SEQ #13710 is documented as Not Performed, and Reason SEQ #14262 is documented as Not Performed by Site.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

### KCCQ-12 Performed

---

Numerator: The number of TMVR discharges that were discharged during the reporting period in which KCCQ-12 Performed SEQ #13843 is documented as Yes.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

Five scores are generated from the KCCQ-12, representing four scales and one summary score. Physical Function Score, Symptom Frequency Score, Quality of Life Score, Social Limitation Score and a Summary Score. All scores are scaled 0 - 100, where 0 denotes the lowest reportable health status and 100 the highest.

---

#### Physical Function Score (mean, st. dev.)

---

Computes the mean and standard deviation of the KCCQ-12 Physical Function Scores for patients that were discharged during the reporting period. The Physical Limitation Score corresponds to Questions 1a, 1b, and 1c. At least 2 questions must have non-missing responses in order to calculate a score. The score is calculated by taking the average of the available responses.

The responses are coded as follows: Extremely limited = 0, Quite a bit limited = 25, Moderately limited = 50, Slightly limited = 75, Not at all limited = 100, Limited for other reasons or did not do the activity = Missing.

---

### **Symptom Frequency Score (mean, st. dev.)**

---

Computes the mean and standard deviation of the KCCQ-12 Symptom Frequency Score for patients that were discharged during the reporting period. The Symptom Frequency Score corresponds to Questions 2,3,4 and 5. The score is calculated by taking the average of the available responses. At least two questions must have non-missing responses in order to calculate a score.

The responses for Question 2 are coded as follows: Every Morning = 0, 3 or more times per week but not every day = 25, 1 - 2 times per week = 50, Less than once a week = 75, Never over the past 2 weeks = 100.

The responses for Questions 3 and 4 are coded as follows: All of the time = 0, Several times per day = 16.667, At least once a day = 33.333, 3 or more times per week but not every day = 50, 1 -2 times per week = 66.667, Less than once a week = 83.333, Never over the past 2 weeks = 100.

The responses for Question 5 are coded as follows: Every night = 0, 3 or more times per week but not every day = 25, 1 - 2 times per week = 50, Less than once a week = 75, Never over the past 2 weeks = 100.

---

### **Quality of Life Score (mean, st. dev.)**

---

Computes the mean and standard deviation of the KCCQ-12 Quality of Life Score for patients that were discharged during the reporting period. The Quality of Life Score corresponds to Questions 6 and 7. The score is calculated by taking the average of the available responses. At least one question must have non-missing responses in order to calculate a score.

The responses for Question 6 are coded as follows: It has extremely limited my enjoyment of life = 0, It has limited my enjoyment of life quite a bit = 25, It has moderately limited my enjoyment of life = 50, It has slightly limited my enjoyment of life = 75, It has not limited my enjoyment of life at all = 100.

The responses for Question 7 are coded as follows: Not at all satisfied = 0, Mostly dissatisfied = 25, Somewhat satisfied = 50, Mostly satisfied = 75, Completely satisfied = 100.

---

### **Social Limitation Score (mean, st. dev.)**

---

Computes the mean and standard deviation of the KCCQ-12 Social Limitation Score for patients that were discharged during the reporting period. The Social Limitation Score corresponds to Questions 8a, 8b and 8c. The score is calculated by taking the average of the available responses. At least two questions must have non-missing responses in order to calculate a score.

The responses for Questions 8a, 8b and 8c are coded as follows: Severly limited = 0, Limited quite a bit = 25, Moderately limited = 50, Slightly limited = 75, Did not limit at all = 100, Does not apply or did not do for other reasons = missing.

---

### **Summary Score (mean, st. dev.)**

---

Computes the mean and standard deviation of all of the KCCQ-12 scores for patients that were discharged during the reporting period. The Physical Limitation, Symptom Frequency, Quality of Life and Social Limitation Scores are the available scores. The summary score is calculated by taking the average of the available scores. At least one of the four scores must be present in order to calculate the summary score.

KCCQ Summary Score  
KCCQ 75-100 (Good - Excellent)  
KCCQ 60 - 74 (Fair - Good)  
KCCQ 45 - 59 (Poor - Fair)  
KCCQ <45 (Very Poor - Poor)



---

## Pre-Procedure Cath and Echo Findings

---

---

### Number of Diseased Vessels

---

---

#### None

---

Numerator: The number of TMVR discharges that were discharged during the reporting period in which Number of Diseased Vessels, SEQ #13381, is documented as None.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

---

#### One

---

Numerator: The number of TMVR discharges that were discharged during the reporting period in which Number of Diseased Vessels, SEQ #13381, is documented as One.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

---

#### Two

---

Numerator: The number of TMVR discharges that were discharged during the reporting period in which Number of Diseased Vessels, SEQ #13381, is documented as Two.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

---

#### Three

---

Numerator: The number of TMVR discharges that were discharged during the reporting period in which Number of Diseased Vessels, SEQ #13381, is documented as Three.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

---

### Left Main Stenosis $\geq 50\%$

---

Numerator: The number of TMVR discharges that were discharged during the reporting period in which Left Main Stenosis  $\geq 50\%$ , SEQ #13260, is documented as Yes.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

---

### LVEF Assessed

---

Numerator: The number of TMVR discharges that were discharged during the reporting period in which LVEF, SEQ #13305, has a documented value.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

---

#### Normal $\geq 50\%$

---

Numerator: The number of TMVR discharges that were discharged during the reporting period in which LVEF, SEQ #13305, is documented as  $\geq 50\%$ .

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

---

#### Mild Dysfunction 40-49%

---

Numerator: The number of TMVR discharges that were discharged during the reporting period in which LVEF, SEQ #13305, is documented as 40-49%.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

### **Moderate Dysfunction 30-39%**

---

Numerator: The number of TMVR discharges that were discharged during the reporting period in which LVEF, SEQ #13305, is documented as 30-39%.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

### **Severe Dysfunction <30%**

---

Numerator: The number of TMVR discharges that were discharged during the reporting period in which LVEF, SEQ #13305, is documented as <30%.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

### **Mitral Valve Annular Calcification**

---

Numerator: The number of TMVR discharges that were discharged during the reporting period in which Mitral Valve Annular Calcification, SEQ #13749, is documented as Yes.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

### **Leaflet Tethering**

---

Numerator: The number of TMVR discharges that were discharged during the reporting period in which Leaflet Tethering, SEQ #13744, is documented as Yes.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

### **Mitral Valve Area**

---

#### **<2 cm<sup>2</sup>**

---

Numerator: The number of TMVR discharges that were discharged during the reporting period in which the MV Area, SEQ #13316, is documented as a value of <2 cm<sup>2</sup>.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

#### **2 <3 cm<sup>2</sup>**

---

Numerator: The number of TMVR discharges that were discharged during the reporting period in which the MV Area, SEQ #13316, is documented as a value of 2 to <3 cm<sup>2</sup>.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

#### **3 <4cm<sup>2</sup>**

---

Numerator: The number of TMVR discharges that were discharged during the reporting period in which the MV Area, SEQ #13316, is documented as a value of 3 to <4 cm<sup>2</sup>.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

#### **4 <5 cm<sup>2</sup>**

---

Numerator: The number of TMVR discharges that were discharged during the reporting period in which the MV Area, SEQ #13316, is documented as a value of 4 to <5 cm<sup>2</sup>.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

## **≥5 cm2**

---

Numerator: The number of TMVR discharges that were discharged during the reporting period in which the MV Area, SEQ #13316, is documented as a value of ≥5 cm2.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

## **Mitral Valve Mean Gradient**

---

### **0 to 5 mmHg**

---

Numerator: The number of TEER discharges that were discharged during the reporting period in which the MV Mean Gradient, SEQ #13317, is documented as a value of 0 to 5 mmHg.

Denominator: The total number of TEER discharges that were discharged during the reporting period.

---

### **>5 to 10 mmHg**

---

Numerator: The number of TEER discharges that were discharged during the reporting period in which the MV Mean Gradient, SEQ #13317, is documented as a value of >5 to 10 mmHg.

Denominator: The total number of TEER discharges that were discharged during the reporting period.

---

### **>10 mmHg**

---

Numerator: The number of TEER discharges that were discharged during the reporting period in which the MV Mean Gradient, SEQ #13317, is documented as a value of >10 mmHg.

Denominator: The total number of TEER discharges that were discharged during the reporting period.

---

## **Mitral Regurgitation**

---

Numerator: The number of TMVR discharges that were discharged during the reporting period in which the Mitral Regurgitation (highest), SEQ #13672, is documented None, Trace/Trivial, Mild, Moderate, Moderate-Severe or Severe.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

### **None**

---

Numerator: The number of TMVR discharges that were discharged during the reporting period in which the Mitral Regurgitation, SEQ #13672, is documented as None. Procedures without a value entered for Mitral Regurgitation will be reported as None.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

### **Trace/Trivial**

---

Numerator: The number of TMVR discharges that were discharged during the reporting period in which the Mitral Regurgitation, SEQ #13672, is documented as Trace/Trivial.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

### **Mild (1+)**

---

Numerator: The number of TMVR discharges that were discharged during the reporting period in which the Mitral Regurgitation, SEQ #13672, is documented as Mild.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

## Moderate (2+)

---

Numerator: The number of TMVR discharges that were discharged during the reporting period in which the Mitral Regurgitation, SEQ #13672, is documented as Moderate.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

## Moderate-Severe to Severe (3-4+)

---

Numerator: The number of TMVR discharges that were discharged during the reporting period in which the Mitral Regurgitation, SEQ #13672, is documented as Moderate-Severe or Severe.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

## Paravalvular Regurgitation

---

Numerator: The number of TMVR discharges that were discharged during the reporting period in which Paravalvular Regurgitation, SEQ #13733, is documented as None, Mild, Moderate, Severe or Not Documented. Procedures where Paravalvular Regurgitation does not have a value entered will be documented as Not Documented. Paravalvular Regurgitation, SEQ #13733, is a child field of Mitral Regurgitation, SEQ #13672.

Denominator: The total number of TMVR discharges that were discharged during the reporting period in which Mitral Regurgitation, SEQ #13672, is documented as Trace/Trivial, Mild, Moderate, Moderate-Severe, or Severe.

---

## None

---

Numerator: The number of TMVR discharges that were discharged during the reporting period in which Paravalvular Regurgitation, SEQ #13733, is documented as None. Paravalvular Regurgitation, SEQ #13733, is a child field of Mitral Regurgitation, SEQ #13672.

Denominator: The total number of TMVR discharges that were discharged during the reporting period in which Mitral Regurgitation, SEQ #13672, is documented as Trace/Trivial, Mild, Moderate, Moderate-Severe, or Severe.

---

## Mild

---

Numerator: The number of TMVR discharges that were discharged during the reporting period in which Paravalvular Regurgitation, SEQ #13733, is documented as Mild. Paravalvular Regurgitation, SEQ #13733 is a child field of Mitral Regurgitation, SEQ #13672.

Denominator: The total number of TMVR discharges that were discharged during the reporting period in which Mitral Regurgitation, SEQ #13672, is documented as Trace/Trivial, Mild, Moderate, Moderate-Severe, or Severe.

---

## Moderate

---

Numerator: The number of TMVR discharges that were discharged during the reporting period in which Paravalvular Regurgitation, SEQ #13733, is documented as Moderate. Paravalvular Regurgitation, SEQ #13733, is a child field of Mitral Regurgitation, SEQ #13672.

Denominator: The total number of TMVR discharges that were discharged during the reporting period in which Mitral Regurgitation, SEQ #13672, is documented as Trace/Trivial, Mild, Moderate, Moderate-Severe, or Severe.

---

## Severe

---

Numerator: The number of TMVR discharges that were discharged during the reporting period in which Paravalvular Regurgitation, SEQ #13733, is documented as Severe. Paravalvular Regurgitation, SEQ #13733, is a child field of Mitral Regurgitation, SEQ #13672.

Denominator: The total number of TMVR discharges that were discharged during the reporting period in which Mitral Regurgitation, SEQ #13672, is documented as Trace/Trivial, Mild, Moderate, Moderate-Severe, or Severe.

---

## Not Documented

---

Numerator: The number of TMVR discharges that were discharged during the reporting period in which Paravalvular Regurgitation, SEQ #13733, is documented as Not Documented. Paravalvular Regurgitation, SEQ #13733, is a child field of Mitral Regurgitation, SEQ #13672.

Denominator: The total number of TMVR discharges that were discharged during the reporting period in which Mitral Regurgitation, SEQ #13672, is documented as Trace/Trivial, Mild, Moderate, Moderate-Severe, or Severe.

## Central Regurgitation

Numerator: The number of TMVR discharges that were discharged during the reporting period in which Central Regurgitation, SEQ #13735, is documented as None, Mild, Moderate, Severe or Not Documented. Procedures where Central Regurgitation does not have a value entered will be documented as Not Documented. Central Regurgitation, SEQ #13735, is a child field of Mitral Regurgitation, SEQ #13672.

Denominator: The total number of TMVR discharges that were discharged during the reporting period in which Mitral Regurgitation, SEQ #13672, is documented as Trace/Trivial, Mild, Moderate, Moderate-Severe, or Severe.

## None

Numerator: The number of TMVR discharges that were discharged during the reporting period in which Central Regurgitation, SEQ #13735, is documented as None. Central Regurgitation, SEQ #13735, is a child field of Mitral Regurgitation, SEQ #13672.

Denominator: The total number of TMVR discharges that were discharged during the reporting period in which Mitral Regurgitation, SEQ #13672, is documented as Trace/Trivial, Mild, Moderate, Moderate-Severe, or Severe.

## Mild

Numerator: The number of TMVR discharges that were discharged during the reporting period in which Central Regurgitation, SEQ #13735, is documented as Mild. Central Regurgitation, SEQ #13735, is a child field of Mitral Regurgitation, SEQ #13672.

Denominator: The total number of TMVR discharges that were discharged during the reporting period in which Mitral Regurgitation, SEQ #13672, is documented as Trace/Trivial, Mild, Moderate, Moderate-Severe, or Severe.

## Moderate

Numerator: The number of TMVR discharges that were discharged during the reporting period in which Central Regurgitation, SEQ #13735, is documented as Moderate. Central Regurgitation, SEQ #13735, is a child field of Mitral Regurgitation, SEQ #13672.

Denominator: The total number of TMVR discharges that were discharged during the reporting period in which Mitral Regurgitation, SEQ #13672, is documented as Trace/Trivial, Mild, Moderate, Moderate-Severe, or Severe.

## Severe

Numerator: The number of TMVR discharges that were discharged during the reporting period in which Central Regurgitation, SEQ #13735, is documented as Severe. Central Regurgitation, SEQ #13735, is a child field of Mitral Regurgitation, SEQ #13672.

Denominator: The total number of TMVR discharges that were discharged during the reporting period in which Mitral Regurgitation, SEQ #13672, is documented as Trace/Trivial, Mild, Moderate, Moderate-Severe, or Severe.

## Not Documented

Numerator: The number of TMVR discharges that were discharged during the reporting period in which Central Regurgitation, SEQ #13735, is documented as Not Documented. Central Regurgitation, SEQ #13735, is a child field of Mitral Regurgitation, SEQ #13672.

Denominator: The total number of TMVR discharges that were discharged during the reporting period in which Mitral Regurgitation, SEQ #13672, is documented as Trace/Trivial, Mild, Moderate, Moderate-Severe, or Severe.

## Mitral Stenosis

Numerator: The number of TMVR discharges that were discharged during the reporting period in which the Mitral Stenosis, SEQ #13308, is documented as Yes.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

## MV Disease Etiology

---

### Degenerative MR (primary)

---

Numerator: The number of TMVR discharges that were discharged during the reporting period in which the Mitral Valve Disease Etiology, SEQ #13490, is documented as Degenerative Mitral Regurgitation (primary). This field direction states to select all that apply.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

### Functional MR (secondary)

---

Numerator: The number of TMVR discharges that were discharged during the reporting period in which the Mitral Valve Disease Etiology, SEQ #13490, is documented as Functional MR (secondary). This field direction states to select all that apply.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

### Post-Inflammatory

---

Numerator: The number of TMVR discharges that were discharged during the reporting period in which the Mitral Valve Disease Etiology, SEQ #13490, is documented as Post-Inflammatory. This field direction states to select all that apply.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

### Endocarditis

---

Numerator: The number of TMVR discharges that were discharged during the reporting period in which the Mitral Valve Disease Etiology, SEQ #13490, is documented as Endocarditis. This field direction states to select all that apply.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

### Other MV Disease Etiology

---

Numerator: The number of TMVR discharges that were discharged during the reporting period in which the Mitral Valve Disease Etiology, SEQ #13490, is documented as Other Mitral Valve Etiology. This field direction states to select all that apply.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

### None

---

Numerator: The number of TMVR discharges that were discharged during the reporting period in which the Mitral Valve Disease Etiology, SEQ #13490, is documented as None.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

### Tricuspid Regurgitation

---

Numerator: The number of TMVR discharges that were discharged during the reporting period in which the Tricuspid Regurgitation (highest), SEQ #13318, is documented None, Trace/Trivial, Mild, Moderate, or Severe.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

### None

---

Numerator: The number of TMVR discharges that were discharged during the reporting period in which the Tricuspid Regurgitation, SEQ #13318, is documented as None. Procedures without a value entered for Tricuspid Regurgitation will be reported as None.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

### **Trace/Trivial**

---

Numerator: The number of TMVR discharges that were discharged during the reporting period in which the Tricuspid Regurgitation, SEQ #13318, is documented as Trace/Trivial.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

### **Mild**

---

Numerator: The number of TMVR discharges that were discharged during the reporting period in which the Tricuspid Regurgitation, SEQ #13318, is documented as Mild.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

### **Moderate**

---

Numerator: The number of TMVR discharges that were discharged during the reporting period in which the Tricuspid Regurgitation, SEQ #13318, is documented as Moderate.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

### **Severe**

---

Numerator: The number of TMVR discharges that were discharged during the reporting period in which the Tricuspid Regurgitation, SEQ #13318, is documented as Severe.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

## Procedural Information

---

---

### Primary Procedure Indication

---

---

#### Mitral Stenosis

---

Numerator: The number of TMVR procedures that were discharged during the reporting period in which Primary Procedure Indication, SEQ #13756, is documented as Mitral Stenosis.

Denominator: The total number of TMVR procedures that were discharged during the reporting period.

---

---

#### Mitral Regurgitation

---

Numerator: The number of TMVR procedures that were discharged during the reporting period in which Primary Procedure Indication, SEQ #13756, is documented as Mitral Regurgitation.

Denominator: The total number of TMVR procedures that were discharged during the reporting period.

---

---

### Shared Decision Making

---

Numerator: The number of TMVR discharges that were discharged during the reporting period in which Shared Decision Making, SEQ #14732, is documented as Yes.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

---

### Concomitant Procedure Performed

---

Numerator: The number of TMVR procedures that were discharged during the reporting period in which Concomitant Procedures Performed, SEQ #7065, is documented as Yes.

Denominator: The total number of TMVR procedures that were discharged during the reporting period.

---

---

#### PCI

---

Numerator: The number of TMVR procedures that were discharged during the reporting period in which Concomitant Procedures Performed, SEQ #7065, is documented as Yes and Procedure Type, SEQ #7066, is documented as PCI.

Denominator: The total number of TMVR procedures that were discharged during the reporting period.

---

---

#### Other Procedure

---

Numerator: The number of TMVR procedures that were discharged during the reporting period in which Concomitant Procedures Performed, SEQ #7065, is documented as Yes and Procedure Type, SEQ #7066, is documented as Left Atrial Appendage Occlusion, Peripheral Intervention, Permanent Pacemaker, Balloon Mitral Valvuloplasty, BASILICA, Alcohol Septal Ablation, LAMPOON, or Procedure Type Not Listed.

Denominator: The total number of TMVR procedures that were discharged during the reporting period.

---

---

### Procedure Status

---

---

#### Elective

---

Numerator: The number of TMVR procedures that were discharged during the reporting period in which Procedure Status, SEQ #7025, is documented as Elective.



Denominator: The total number of TMVR procedures that were discharged during the reporting period.

---

## **Urgent**

---

Numerator: The number of TMVR procedures that were discharged during the reporting period in which Procedure Status, SEQ #7025, is documented as Urgent.

Denominator: The total number of TMVR procedures that were discharged during the reporting period.

---

## **Emergency**

---

Numerator: The number of TMVR procedures that were discharged during the reporting period in which Procedure Status, SEQ #7025, is documented as Emergency.

Denominator: The total number of TMVR procedures that were discharged during the reporting period.

---

## **Salvage**

---

Numerator: The number of TMVR procedures that were discharged during the reporting period in which Procedure Status, SEQ #7025, is documented as Salvage.

Denominator: The total number of TMVR procedures that were discharged during the reporting period.

---

## **Heart Team Reason for Procedure**

---

### **Inoperable/Extreme Risk**

---

Numerator: The number of TMVR procedures that were discharged during the reporting period in which Heart Team Reason for Procedure, SEQ #13499, is documented as Inoperable/Extreme Risk.

Denominator: The total number of TMVR procedures that were discharged during the reporting period.

---

### **High Risk of 30 Day Mortality**

---

Numerator: The number of TMVR procedures that were discharged during the reporting period in which Heart Team Reason for Procedure, SEQ #13499, is documented as High Risk of 30 Day Mortality.

Denominator: The total number of TMVR procedures that were discharged during the reporting period.

---

### **Intermediate Risk of 30 Day Mortality**

---

Numerator: The number of TMVR procedures that were discharged during the reporting period in which Heart Team Reason for Procedure, SEQ #13499, is documented as Intermediate Risk of 30 Day Mortality.

Denominator: The total number of TMVR procedures that were discharged during the reporting period.

---

### **Low Risk of 30 Day Mortality**

---

Numerator: The number of TMVR procedures that were discharged during the reporting period in which Heart Team Reason for Procedure, SEQ #13499, is documented as Low Risk of 30 Day Mortality.

Denominator: The total number of TMVR procedures that were discharged during the reporting period.

---

## **Procedure Aborted**

---

Numerator: The number of TMVR procedures that were discharged during the reporting period in which Procedure Aborted, SEQ #13505, is documented as Yes.

Denominator: The total number of TMVR procedures that were discharged during the reporting period.

---

## Conversion to Open Heart Surgery

---

Numerator: The number of TMVR procedures that were discharged during the reporting period in which Conversion to Open Heart Surgery, SEQ #13542, is documented as Yes.

Denominator: The total number of TMVR procedures that were discharged during the reporting period.

---

## Mechanical Support

---

Numerator: The number of TMVR procedures that were discharged during the reporting period in which Mechanical Support, SEQ #7422, is documented as Yes.

Denominator: The total number of TMVR procedures that were discharged during the reporting period.

---

## Timing - In Place at Start of Procedure

---

Numerator: The number of TMVR procedures that were discharged during the reporting period in which Mechanical Support Timing, SEQ #7424, is documented as In Place at Start of Procedure.

Denominator: The total number of TMVR procedures that were discharged during the reporting period in which Mechanical Support, SEQ #7422, is documented as Yes.

---

## Timing - Inserted During Procedure and Prior to Intervention

---

Numerator: The number of TMVR procedures that were discharged during the reporting period in which Mechanical Support Timing, SEQ #7424, is documented as Inserted During Procedure and Prior to Intervention.

Denominator: The total number of TMVR procedures that were discharged during the reporting period in which Mechanical Support, SEQ #7422, is documented as Yes.

---

## Timing - Inserted After Intervention Has Begun

---

Numerator: The number of TMVR procedures that were discharged during the reporting period in which Mechanical Support Timing, SEQ #7424, is documented as Inserted After Intervention Has Begun.

Denominator: The total number of TMVR procedures that were discharged during the reporting period in which Mechanical Support, SEQ #7422, is documented as Yes.

---

## Timing - Post-Procedure

---

Numerator: The number of TMVR procedures that were discharged during the reporting period in which Mechanical Support Timing, SEQ #7424, is documented as Post-Procedure.

Denominator: The total number of TMVR procedures that were discharged during the reporting period in which Mechanical Support, SEQ #7422, is documented as Yes.

---

## Cardiopulmonary Bypass

---

Numerator: The number of TMVR procedures that were discharged during the reporting period in which Cardiopulmonary Bypass Used, SEQ #13579, is documented as Yes.

Denominator: The total number of TMVR procedures that were discharged during the reporting period.

---

## Elective

---

Numerator: The number of TMVR procedures that were discharged during the reporting period in which Cardiopulmonary Bypass Used, SEQ #13579, is documented as Yes and Status, SEQ #13580, is documented as Elective.

Denominator: The total number of TMVR procedures that were discharged during the reporting period in which Cardiopulmonary Bypass Used, SEQ #13579, is documented as Yes.

---

## Emergency

---

Numerator: The number of TMVR procedures that were discharged during the reporting period in which Cardiopulmonary Bypass Used, SEQ #13579, is documented as Yes and Status, SEQ #13580, is documented as Emergency.

Denominator: The total number of TMVR procedures that were discharged during the reporting period in which Cardiopulmonary Bypass Used, SEQ #13579, is documented as Yes.

---

## Anesthesia Type

---

### General

---

Numerator: The number of TMVR procedures that were discharged during the reporting period in which Anesthesia Type, SEQ #13331, is documented as General.

Denominator: The total number of TMVR procedures that were discharged during the reporting period.

---

### Deep Sedation/Analgesia

---

Numerator: The number of TMVR procedures that were discharged during the reporting period in which Anesthesia Type, SEQ #13331, is documented as Deep Sedation/Analgesia.

Denominator: The total number of TMVR procedures that were discharged during the reporting period.

---

### Moderate Sedation/Analgesia

---

Numerator: The number of TMVR procedures that were discharged during the reporting period in which Anesthesia Type, SEQ #13331, is documented as Moderate Sedation/Analgesia.

Denominator: The total number of TMVR procedures that were discharged during the reporting period.

---

### Minimal Sedation/Analgesia

---

Numerator: The number of TMVR procedures that were discharged during the reporting period in which Anesthesia Type, SEQ #13331, is documented as Minimal Sedation/Anxiolysis.

Denominator: The total number of TMVR procedures that were discharged during the reporting period.

---

## Access Site

---

### Transseptal via Femoral Vein

---

Numerator: The number of TMVR procedures that were discharged during the reporting period in which Procedure Access Site, SEQ #13758, is documented as Transseptal via Femoral Vein.

Denominator: The total number of TMVR procedures that were discharged during the reporting period.

---

### Transapical

---

Numerator: The number of TMVR procedures that were discharged during the reporting period in which Procedure Access Site, SEQ #13758, is documented as Transapical.

Denominator: The total number of TMVR procedures that were discharged during the reporting period.

---

### Direct Left Atrium

---

Numerator: The number of TMVR procedures that were discharged during the reporting period in which Procedure Access Site, SEQ #13758, is documented as Direct Left Atrium.

Denominator: The total number of TMVR procedures that were discharged during the reporting period.

---

## Other

---

Numerator: The number of TMVR procedures that were discharged during the reporting period in which Procedure Access Site, SEQ #13758, is documented as Other.

Denominator: The total number of TMVR procedures that were discharged during the reporting period.

---

## TMVR Type

---

### Native Valve

---

Numerator: The number of TMVR procedures that were discharged during the reporting period in which TMVR Type, SEQ #13754, is documented as Native Valve.

Denominator: The total number of TMVR procedures that were discharged during the reporting period.

---

### Valve-in-Valve

---

Numerator: The number of TMVR procedures that were discharged during the reporting period in which TMVR Type, SEQ #13754, is documented as Valve-in-Valve.

Denominator: The total number of TMVR procedures that were discharged during the reporting period.

---

### Valve-In-Ring

---

Numerator: The number of TMVR procedures that were discharged during the reporting period in which TMVR Type, SEQ #13754, is documented as Valve-in-Ring.

Denominator: The total number of TMVR procedures that were discharged during the reporting period.

---

## Device Implanted Successfully

---

Numerator: The number of TMVR procedures that were discharged during the reporting period in which Device Implanted Successfully, SEQ #135384, is documented as Yes.

Denominator: The total number of TMVR procedures that were discharged during the reporting period. Excluding Procedure Aborted, SEQ #13505, documented as Yes.

---

## Reason Device Not Implanted Successfully

---

### Device Embolization

---

Numerator: The number of TMVR procedures that were discharged during the reporting period in which Device Implanted Successfully, SEQ #13538, is documented as No and Reason Device Not Implanted Successfully, SEQ #13541, is documented as Device Embolization.

Denominator: The total number of TMVR procedures that were discharged during the reporting period in which Device Implanted Successfully, SEQ #13538 is documented as No.

---

### Improper Positioning/Deploying

---

Numerator: The number of TMVR procedures that were discharged during the reporting period in which Device Implanted Successfully, SEQ #13538, is documented as No and Reason Device Not Implanted Successfully, SEQ #13541, is documented as Improper Positioning/Deploying.

Denominator: The total number of TMVR procedures that were discharged during the reporting period in which Device Implanted Successfully, SEQ #13538 is documented as No.

---

## Improper Device Sizing

---

Numerator: The number of TMVR procedures that were discharged during the reporting period in which Device Implanted Successfully, SEQ #13538, is documented as No and Reason Device Not Implanted Successfully, SEQ #13541, is documented as Improper Device Sizing.

Denominator: The total number of TMVR procedures that were discharged during the reporting period in which Device Implanted Successfully, SEQ #13538 is documented as No.

---

## Other

---

Numerator: The number of TMVR procedures that were discharged during the reporting period in which Device Implanted Successfully, SEQ #13538, is documented as No and Reason Device Not Implanted Successfully, SEQ #13541, is documented as Other.

Denominator: The total number of TMVR procedures that were discharged during the reporting period in which Device Implanted Successfully, SEQ #13538 is documented as No.

---

## Fluoro Time (mean, median, st. dev.)

---

Computes the mean, median and standard deviation of the Fluoro Time, SEQ #7214, reported in minutes of all TMVR procedures that were discharged during the reporting period.

---

## Cumulative Air Kerma (mGy) (mean, median, st. dev.)

---

Computes the mean, median and standard deviation of the Cumulative Air Kerma, SEQ #7210, reported in Gy of all TMVR procedures that were discharged during the reporting period.

---

## Dose Area Product (Gy/cm2) (mean, median, st. dev.)

---

Computes the mean, median and standard deviation of the Dose Area Product, SEQ #14278, reported in Gy/cm2 of all TMVR procedures that were discharged during the reporting period.

---

## Contrast Volume w/out Concomitant Procedure

---

Computes the mean, median and standard deviation of Contrast Volume, SEQ #7215, in TMVR procedures that were discharged during the reporting period where Concomitant Procedure, SEQ #7065, is documented as No, reported in milliliters.

---

## Contrast Volume with Concomitant Procedure

---

Computes the mean, median and standard deviation of Contrast Volume, SEQ #7215, in TMVR procedures that were discharged during the reporting period where Concomitant Procedure SEQ #7065 is documented as Yes, reported in milliliters.

---

## Ratio of CV to eGFR $\geq 3$ (significant risk of CIN)

---

The ratio of contrast volume to eGFR is reported here to monitor the contrast volume use in patients with compromised kidney function. The method for calculating eGFR is listed below.

This ratio is calculated by dividing the contrast volume by the eGFR. **Excludes patients Currently on Dialysis SEQ #13880**

Please note: eGFR is calculated by using the National Kidney Foundation: CKD-EPI Creatinine Equation (2021), <https://www.kidney.org/content/ckd-epi-creatinine-equation-2021>.

Expressed as a single equation:  $eGFR_{Cr} = 142 \times \min(\text{Scr}/\kappa, 1)^\alpha \times \max(\text{Scr}/\kappa, 1)^{-1.200} \times 0.9938^{\text{Age}} \times 1.012$  [if female]

where:

Scr = standardized serum creatinine in mg/dL

$\kappa$  = 0.7 (females) or 0.9 (males)

$\alpha$  = -0.241 (female) or -0.302 (male)

$\min(\text{Scr}/\kappa, 1)$  is the minimum of Scr/ $\kappa$  or 1.0

$\max(\text{Scr}/\kappa, 1)$  is the maximum of Scr/ $\kappa$  or 1.0

Age (years)

Interpretation example:

Contrast dose=150ml eGFR=50 would equal ratio of 3.0

Contrast dose=100 ml eGFR=50 would equal ratio of 2.0

A lower ratio is more desirable than a higher ratio. Higher ratio is associated with higher incidence of CIN.

---

## Ratio of CV to eGFR >2 but <3 (substantial risk of CIN)

---

The ratio of contrast volume to eGFR is reported here to monitor the contrast volume use in patients with compromised kidney function. The method for calculating eGFR is listed below.

This ratio is calculated by dividing the contrast volume by the eGFR. **Excludes patients Currently on Dialysis SEQ #13880**

Please note: eGFR is calculated by using the National Kidney Foundation: CKD-EPI Creatinine Equation (2021), <https://www.kidney.org/content/ckd-epi-creatinine-equation-2021>.

Expressed as a single equation:  $eGFR_{cr} = 142 \times \min(Scr/\kappa, 1)^\alpha \times \max(Scr/\kappa, 1)^{-1.200} \times 0.9938^{Age} \times 1.012$  [if female]

where:

Scr = standardized serum creatinine in mg/dL

$\kappa = 0.7$  (females) or  $0.9$  (males)

$\alpha = -0.241$  (female) or  $-0.302$  (male)

$\min(Scr/\kappa, 1)$  is the minimum of  $Scr/\kappa$  or  $1.0$

$\max(Scr/\kappa, 1)$  is the maximum of  $Scr/\kappa$  or  $1.0$

Age (years)

Interpretation example:

Contrast dose=150ml eGFR=50 would equal ratio of 3.0

Contrast dose=100 ml eGFR=50 would equal ratio of 2.0

A lower ratio is more desirable than a higher ratio. Higher ratio is associated with higher incidence of CIN.

---

## Intra or Post-Procedure Events

---

Numerator: The number of TMVR procedures that were discharged during the reporting period in which an Intra or Post-Procedure Event, SEQ #12153, and Event Occurred, SEQ #9002, is documented as Yes.

Denominator: The total number of TMVR procedures that were discharged during the reporting period.

---

## ASD Defect Closure due to Transseptal Catheterization

---

Numerator: The number of TMVR procedures that were discharged during the reporting period in which the Intra or Post-Procedure Event, ASD Defect Closure due to Transseptal Catheterization, SEQ #12153, and Event Occurred, SEQ #9002, is documented as Yes.

Denominator: The total number of TMVR procedures that were discharged during the reporting period.

---

## Atrial Fibrillation

---

Numerator: The number of TMVR procedures that were discharged during the reporting period in which the Intra or Post-Procedure Event, Atrial Fibrillation, SEQ #12153, and Event Occurred, SEQ #9002, is documented as Yes.

Denominator: The total number of TMVR procedures that were discharged during the reporting period.

---

## Bleeding - Access Site

---

Numerator: The number of TMVR procedures that were discharged during the reporting period in which the Intra or Post-Procedure Event, Bleeding - Access Site, SEQ #12153, and Event Occurred, SEQ #9002, is documented as Yes.

Denominator: The total number of TMVR procedures that were discharged during the reporting period.

---

## Bleeding - GI

---

Numerator: The number of TMVR procedures that were discharged during the reporting period in which the Intra or Post-Procedure Event, Bleeding - Gastrointestinal, SEQ #12153, and Event Occurred, SEQ #9002, is documented as Yes.

Denominator: The total number of TMVR procedures that were discharged during the reporting period.

---

## Bleeding - GU

---

Numerator: The number of TMVR procedures that were discharged during the reporting period in which the Intra or Post-Procedure Event, Bleeding - Genitourinary, SEQ #12153, and Event Occurred, SEQ #9002, is documented as Yes.

Denominator: The total number of TMVR procedures that were discharged during the reporting period.

---

## Bleeding - Hematoma at Access Site

---

Numerator: The number of TMVR procedures that were discharged during the reporting period in which the Intra or Post-Procedure Event, Bleeding - Hematoma at Access Site, SEQ #12153, and Event Occurred, SEQ #9002, is documented as Yes.

Denominator: The total number of TMVR procedures that were discharged during the reporting period.

---

## Bleeding - Other

---

Numerator: The number of TMVR procedures that were discharged during the reporting period in which the Intra or Post-Procedure Event, Bleeding - Other, SEQ #12153, and Event Occurred, SEQ #9002, is documented as Yes.

Denominator: The total number of TMVR procedures that were discharged during the reporting period.

---

## Bleeding - Retroperitoneal

---

Numerator: The number of TMVR procedures that were discharged during the reporting period in which the Intra or Post-Procedure Event, Bleeding - Retroperitoneal, SEQ #12153, and Event Occurred, SEQ #9002, is documented as Yes.

Denominator: The total number of TMVR procedures that were discharged during the reporting period.

---

## Cardiac Arrest

---

Numerator: The number of TMVR procedures that were discharged during the reporting period in which the Intra or Post-Procedure Event, Cardiac Arrest, SEQ #12153, and Event Occurred, SEQ #9002, is documented as Yes.

Denominator: The total number of TMVR procedures that were discharged during the reporting period.

---

## Cardiac Perforation

---

Numerator: The number of TMVR procedures that were discharged during the reporting period in which the Intra or Post-Procedure Event, Cardiac Perforation, SEQ #12153, and Event Occurred, SEQ #9002, is documented as Yes.

Denominator: The total number of TMVR procedures that were discharged during the reporting period.

---

## Cardiac Surgery or Intervention - Other Unplanned

---

Numerator: The number of TMVR procedures that were discharged during the reporting period in which the Intra or Post-Procedure Event, Cardiac Surgery or Intervention - Other Unplanned, SEQ #12153, and Event Occurred, SEQ #9002, is documented as Yes.

Denominator: The total number of TMVR procedures that were discharged during the reporting period.

---

## COVID 19

---

Numerator: The number of TMVR procedures that were discharged during the reporting period in which the Intra or Post-Procedure Event, COVID 19, SEQ #12153, and Event Occurred, SEQ #9002, is documented as Yes.

Denominator: The total number of TMVR procedures that were discharged during the reporting period.

---

## Device Embolization

---

Numerator: The number of TMVR procedures that were discharged during the reporting period in which the Intra or Post-Procedure Event, Device Embolization, SEQ #12153, and Event Occurred, SEQ #9002, is documented as Yes.

Denominator: The total number of TMVR procedures that were discharged during the reporting period.

---

## Device Migration

---

Numerator: The number of TMVR procedures that were discharged during the reporting period in which the Intra or Post-Procedure Event, Device Migration, SEQ #12153, and Event Occurred, SEQ #9002, is documented as Yes.

Denominator: The total number of TMVR procedures that were discharged during the reporting period.

---

## Device Thrombosis

---

Numerator: The number of TMVR procedures that were discharged during the reporting period in which the Intra or Post-Procedure Event, Device Thrombosis, SEQ #12153, and Event Occurred, SEQ #9002, is documented as Yes.

Denominator: The total number of TMVR procedures that were discharged during the reporting period.

---

## Device Related Event - Other

---

Numerator: The number of TMVR procedures that were discharged during the reporting period in which the Intra or Post-Procedure Event, Device Related Event - Other, SEQ #12153, and Event Occurred, SEQ #9002, is documented as Yes.



Denominator: The total number of TMVR procedures that were discharged during the reporting period.

---

## Dialysis (new requirement)

---

Numerator: The number of TMVR procedures that were discharged during the reporting period in which the Intra or Post-Procedure Event, Dialysis (new requirement), SEQ #12153, and Event Occurred, SEQ #9002, is documented as Yes.

Denominator: The total number of TMVR procedures that were discharged during the reporting period. Excluding procedures when Currently on Dialysis, SEQ #13880, is documented as Yes.

---

## Endocarditis

---

Numerator: The number of TMVR procedures that were discharged during the reporting period in which the Intra or Post-Procedure Event, Endocarditis, SEQ #12153, and Event Occurred, SEQ #9002, is documented as Yes.

Denominator: The total number of TMVR procedures that were discharged during the reporting period.

---

## ICD

---

Numerator: The number of TMVR procedures that were discharged during the reporting period in which the Intra or Post-Procedure Event, ICD, SEQ #12153, and Event Occurred, SEQ #9002, is documented as Yes.

Denominator: The total number of TMVR procedures that were discharged during the reporting period.

---

## LV Outflow Tract Obstruction

---

Numerator: The number of TMVR procedures that were discharged during the reporting period in which the Intra or Post-Procedure Event, Left Ventricular Outflow Tract Obstruction, SEQ #12153, and Event Occurred, SEQ #9002, is documented as Yes.

Denominator: The total number of TMVR procedures that were discharged during the reporting period.

---

## Myocardial Infarction

---

Numerator: The number of TMVR procedures that were discharged during the reporting period in which the Intra or Post-Procedure Event, Myocardial Infarction, SEQ #12153, and Event Occurred, SEQ #9002, is documented as Yes.

Denominator: The total number of TMVR procedures that were discharged during the reporting period.

---

## Permanent Pacemaker

---

Numerator: The number of TMVR procedures that were discharged during the reporting period in which the Intra or Post-Procedure Event, Permanent Pacemaker, SEQ #12153, and Event Occurred, SEQ #9002, is documented as Yes.

Denominator: The total number of TMVR procedures that were discharged during the reporting period. Excluding Procedure History of Permanent Pacemaker, SEQ #12905, Occurrence marked as Yes, SEQ #14268.

---

## Reintervention - Mitral Valve

---

Numerator: The number of TMVR procedures that were discharged during the reporting period in which the Intra or Post-Procedure Event, Reintervention - Mitral Valve, SEQ #12153, and Event Occurred, SEQ #9002, is documented as Yes.

Denominator: The total number of TMVR procedures that were discharged during the reporting period.

---

## Stroke - Ischemic

---

Numerator: The number of TMVR procedures that were discharged during the reporting period in which the Intra or Post-Procedure Event, Stroke - Ischemic, SEQ #12153, and Event Occurred, SEQ #9002, is documented as Yes.

Denominator: The total number of TMVR procedures that were discharged during the reporting period.

---

## Stroke - Hemorrhagic

---

Numerator: The number of TMVR procedures that were discharged during the reporting period in which the Intra or Post-Procedure Event, Stroke - Hemorrhagic, SEQ #12153, and Event Occurred, SEQ #9002, is documented as Yes.

Denominator: The total number of TMVR procedures that were discharged during the reporting period.

---

## Stroke - Undetermined

---

Numerator: The number of TMVR procedures that were discharged during the reporting period in which the Intra or Post-Procedure Event, Stroke - Undetermined, SEQ #12153, and Event Occurred, SEQ #9002, is documented as Yes.

Denominator: The total number of TMVR procedures that were discharged during the reporting period.

---

## TIA

---

Numerator: The number of TMVR procedures that were discharged during the reporting period in which the Intra or Post-Procedure Event, Transient Ischemic Attack, SEQ #12153, and Event Occurred, SEQ #9002, is documented as Yes.

Denominator: The total number of TMVR procedures that were discharged during the reporting period.

---

## Transseptal Complication

---

Numerator: The number of TMVR procedures that were discharged during the reporting period in which the Intra or Post-Procedure Event, Transseptal Complication, SEQ #12153, and Event Occurred, SEQ #9002, is documented as Yes.

Denominator: The total number of TMVR procedures that were discharged during the reporting period.

---

## Vascular Complication - Major

---

Numerator: The number of TMVR procedures that were discharged during the reporting period in which the Intra or Post-Procedure Event, Vascular Complication - Major, SEQ #12153, and Event Occurred, SEQ #9002, is documented as Yes.

Denominator: The total number of TMVR procedures that were discharged during the reporting period.

---

## Vascular Complication - Minor

---

Numerator: The number of TMVR procedures that were discharged during the reporting period in which the Intra or Post-Procedure Event, Vascular Complication - Minor, SEQ #12153, and Event Occurred, SEQ #9002, is documented as Yes.

Denominator: The total number of TMVR procedures that were discharged during the reporting period.

---

## Vascular Surgery or Intervention - Unplanned

---

Numerator: The number of TMVR procedures that were discharged during the reporting period in which the Intra or Post-Procedure Event, Vascular Surgery or Intervention - Unplanned, SEQ #12153, and Event Occurred, SEQ #9002, is documented as Yes.

Denominator: The total number of TMVR procedures that were discharged during the reporting period.

---

## Post-Procedure Labs and Testing

---

---

### Creatinine Assessed - pre and post

---

Numerator: The number of TMVR procedures that were discharged during the reporting period in which Creatinine (pre-procedure), SEQ #6050, AND Creatinine (post-procedure highest), SEQ #13764 are both documented with a value.

Denominator: The total number of TMVR procedures that were discharged during the reporting period. Excluding procedures where Death During Procedure, SEQ #10120, is documented as Yes.

---

### Hemoglobin Assessed - pre and post

---

Numerator: The number of TMVR procedures that were discharged during the reporting period in which Hemoglobin (pre-procedure), SEQ #6030, AND Hemoglobin (post-procedure lowest), SEQ #13763 are both documented with a value.

Denominator: The total number of TMVR procedures that were discharged during the reporting period. Excluding procedures where Death During Procedure, SEQ #10120, is documented as Yes.

---

### ECG Post-Procedure

---

Numerator: The number of TMVR discharges that were discharged during the reporting period in which the 12 Lead ECG Performed, SEQ #13616, is documented as Yes.

Denominator: The total number of TMVR discharges that were discharged during the reporting period. Excluding Death During Procedure, SEQ #10120, documented as Yes and/or Procedure Aborted, SEQ #13505, documented as Yes.

---

### No Significant Changes

---

Numerator: The number of TMVR discharges that were discharged during the reporting period in which the 12 Lead ECG Performed, SEQ #13616, is documented as Yes and 12 Lead ECG Findings, SEQ #13765, is documented as No Significant Changes.

Denominator: The total number of TMVR discharges that were discharged during the reporting period. Excluding Death During Procedure, SEQ #10120, documented as Yes and/or Procedure Aborted, SEQ #13505, documented as Yes.

---

### Pathological Q Wave

---

Numerator: The number of TMVR discharges that were discharged during the reporting period in which the 12 Lead ECG Performed, SEQ #13616, is documented as Yes and 12 Lead ECG Findings, SEQ #13765, is documented as Pathological Q Wave.

Denominator: The total number of TMVR discharges that were discharged during the reporting period. Excluding Death During Procedure, SEQ #10120, documented as Yes and/or Procedure Aborted, SEQ #13505, documented as Yes.

---

### New LBBB

---

Numerator: The number of TMVR discharges that were discharged during the reporting period in which the 12 Lead ECG Performed, SEQ #13616, is documented as Yes and 12 Lead ECG Findings, SEQ #13765, is documented as New LBBB.

Denominator: The total number of TMVR discharges that were discharged during the reporting period. Excluding Death During Procedure, SEQ #10120, documented as Yes and/or Procedure Aborted, SEQ #13505, documented as Yes.

---

### Cardiac Arrhythmia

---

Numerator: The number of TMVR discharges that were discharged during the reporting period in which the 12 Lead ECG Performed, SEQ #13616, is documented as Yes and 12 Lead ECG Findings, SEQ #13765, is documented as Cardiac Arrhythmia.

Denominator: The total number of TMVR discharges that were discharged during the reporting period. Excluding Death During Procedure, SEQ #10120, documented as Yes and/or Procedure Aborted, SEQ #13505, documented as Yes.

---

## Echo Post-Procedure

---

Numerator: The number of TMVR discharges that were discharged during the reporting period in which the Echocardiogram, SEQ #13592, is documented as Yes for TTE or TEE.

Denominator: The total number of TMVR discharges that were discharged during the reporting period. Excluding Death During Procedure, SEQ #10120, documented as Yes and/or Procedure Aborted, SEQ #13505, documented as Yes.

---

## Mitral Regurgitation

---

### None

---

Numerator: The number of TMVR discharges that were discharged during the reporting period in which the Echocardiogram, SEQ #13592, is documented as Yes, TTE or TEE, and Mitral Regurgitation, SEQ #13494, is documented as None.

Denominator: The total number of TMVR discharges that were discharged during the reporting period. Excluding Death During Procedure, SEQ #10120, documented as Yes and/or Procedure Aborted, SEQ #13505, documented as Yes.

---

### Trace/Trivial

---

Numerator: The number of TMVR discharges that were discharged during the reporting period in which the Echocardiogram, SEQ #13592, is documented as Yes, TTE or TEE, and Mitral Regurgitation, SEQ #13494, is documented as Trace/Trivial.

Denominator: The total number of TMVR discharges that were discharged during the reporting period. Excluding Death During Procedure, SEQ #10120, documented as Yes and/or Procedure Aborted, SEQ #13505, documented as Yes.

---

### Mild

---

Numerator: The number of TMVR discharges that were discharged during the reporting period in which the Echocardiogram, SEQ #13592, is documented as Yes, TTE or TEE, and Mitral Regurgitation, SEQ #13494, is documented as Mild.

Denominator: The total number of TMVR discharges that were discharged during the reporting period. Excluding Death During Procedure, SEQ #10120, documented as Yes and/or Procedure Aborted, SEQ #13505, documented as Yes.

---

### Moderate

---

Numerator: The number of TMVR discharges that were discharged during the reporting period in which the Echocardiogram, SEQ #13592, is documented as Yes, TTE or TEE, and Mitral Regurgitation, SEQ #13494, is documented as Moderate.

Denominator: The total number of TMVR discharges that were discharged during the reporting period. Excluding Death During Procedure, SEQ #10120, documented as Yes and/or Procedure Aborted, SEQ #13505, documented as Yes.

---

### Moderate-Severe

---

Numerator: The number of TMVR discharges that were discharged during the reporting period in which the Echocardiogram, SEQ #13592, is documented as Yes, TTE or TEE, and Mitral Regurgitation, SEQ #13494, is documented as Moderate-Severe.

Denominator: The total number of TMVR discharges that were discharged during the reporting period. Excluding Death During Procedure, SEQ #10120, documented as Yes and/or Procedure Aborted, SEQ #13505, documented as Yes.

---

### Severe

---

Numerator: The number of TMVR discharges that were discharged during the reporting period in which the Echocardiogram, SEQ #13592, is documented as Yes, TTE or TEE, and Mitral Regurgitation, SEQ #13494, is documented as Severe.

Denominator: The total number of TMVR discharges that were discharged during the reporting period. Excluding Death During Procedure, SEQ #10120, documented as Yes and/or Procedure Aborted, SEQ #13505, documented as Yes.

---

## Paravalvular Regurgitation

---

Numerator: The number of TMVR discharges that were discharged during the reporting period in which Paravalvular Regurgitation, SEQ #13766, is documented as None, Mild, Moderate, Severe or Not Documented. Procedures where Paravalvular Regurgitation does not have a value entered will be documented as Not Documented. Paravalvular Regurgitation, SEQ #13766, is a child field of Mitral Regurgitation, SEQ #13494.

Denominator: The total number of TMVR discharges that were discharged during the reporting period in which Mitral Regurgitation, SEQ #13494, is documented as Trace/Trivial, Mild, Moderate, Moderate-Severe, or Severe. Excluding Death During Procedure, SEQ #10120, documented as Yes and/or Procedure Aborted, SEQ #13505, documented as Yes.

---

### None

---

Numerator: The number of TMVR discharges that were discharged during the reporting period in which Paravalvular Regurgitation, SEQ #13766, is documented as None. Paravalvular Regurgitation, SEQ #13766, is a child field of Mitral Regurgitation, SEQ #13494.

Denominator: The total number of TMVR discharges that were discharged during the reporting period in which Mitral Regurgitation, SEQ #13494, is documented as Trace/Trivial, Mild, Moderate, Moderate-Severe, or Severe. Excluding Death During Procedure, SEQ #10120, documented as Yes and/or Procedure Aborted, SEQ #13505, documented as Yes.

---

### Mild

---

Numerator: The number of TMVR discharges that were discharged during the reporting period in which Paravalvular Regurgitation, SEQ #13766, is documented as Mild. Paravalvular Regurgitation, SEQ #13766, is a child field of Mitral Regurgitation, SEQ #13494.

Denominator: The total number of TMVR discharges that were discharged during the reporting period in which Mitral Regurgitation, SEQ #13494, is documented as Trace/Trivial, Mild, Moderate, Moderate-Severe, or Severe. Excluding Death During Procedure, SEQ #10120, documented as Yes and/or Procedure Aborted, SEQ #13505, documented as Yes.

---

### Moderate

---

Numerator: The number of TMVR discharges that were discharged during the reporting period in which Paravalvular Regurgitation, SEQ #13766, is documented as Moderate. Paravalvular Regurgitation, SEQ #13766, is a child field of Mitral Regurgitation, SEQ #13494.

Denominator: The total number of TMVR discharges that were discharged during the reporting period in which Mitral Regurgitation, SEQ #13494, is documented as Trace/Trivial, Mild, Moderate, Moderate-Severe, or Severe. Excluding Death During Procedure, SEQ #10120, documented as Yes and/or Procedure Aborted, SEQ #13505, documented as Yes.

---

### Severe

---

Numerator: The number of TMVR discharges that were discharged during the reporting period in which Paravalvular Regurgitation, SEQ #13766, is documented as Severe. Paravalvular Regurgitation, SEQ #13766, is a child field of Mitral Regurgitation, SEQ #13494.

Denominator: The total number of TMVR discharges that were discharged during the reporting period in which Mitral Regurgitation, SEQ #13494, is documented as Trace/Trivial, Mild, Moderate, Moderate-Severe, or Severe. Excluding Death During Procedure, SEQ #10120, documented as Yes and/or Procedure Aborted, SEQ #13505, documented as Yes.

---

### Not Documented

---

Numerator: The number of TMVR discharges that were discharged during the reporting period in which Paravalvular Regurgitation, SEQ #13766, is documented as Not Documented. Paravalvular Regurgitation, SEQ #13766, is a child field of Mitral Regurgitation, SEQ #13494.

Denominator: The total number of TMVR discharges that were discharged during the reporting period in which Mitral Regurgitation, SEQ #13494, is documented as Trace/Trivial, Mild, Moderate, Moderate-Severe, or Severe. Excluding Death During Procedure, SEQ #10120, documented as Yes and/or Procedure Aborted, SEQ #13505, documented as Yes.

---

## Central Regurgitation

---

Numerator: The number of TMVR discharges that were discharged during the reporting period in which Central Regurgitation, SEQ #13767, is documented as None, Mild, Moderate, Severe or Not Documented. Procedures where Central Regurgitation does not have a value entered will be documented as Not Documented. Central Regurgitation, SEQ #13767, is a child field of Mitral Regurgitation, SEQ #13494.

Denominator: The total number of TMVR discharges that were discharged during the reporting period in which Mitral Regurgitation, SEQ #13494, is documented as Trace/Trivial, Mild, Moderate, Moderate-Severe, or Severe. Excluding Death During Procedure, SEQ #10120, documented as Yes and/or Procedure Aborted, SEQ #13505, documented as Yes.

---

## None

---

Numerator: The number of TMVR discharges that were discharged during the reporting period in which Central Regurgitation, SEQ #13767, is documented as None. Central Regurgitation, SEQ #137676, is a child field of Mitral Regurgitation, SEQ #13494.

Denominator: The total number of TMVR discharges that were discharged during the reporting period in which Mitral Regurgitation, SEQ #13494, is documented as Trace/Trivial, Mild, Moderate, Moderate-Severe, or Severe. Excluding Death During Procedure, SEQ #10120, documented as Yes and/or Procedure Aborted, SEQ #13505, documented as Yes.

---

## Mild

---

Numerator: The number of TMVR discharges that were discharged during the reporting period in which Central Regurgitation, SEQ #13767, is documented as Mild. Central Regurgitation, SEQ #137676, is a child field of Mitral Regurgitation, SEQ #13494.

Denominator: The total number of TMVR discharges that were discharged during the reporting period in which Mitral Regurgitation, SEQ #13494, is documented as Trace/Trivial, Mild, Moderate, Moderate-Severe, or Severe. Excluding Death During Procedure, SEQ #10120, documented as Yes and/or Procedure Aborted, SEQ #13505, documented as Yes.

---

## Moderate

---

Numerator: The number of TMVR discharges that were discharged during the reporting period in which Central Regurgitation, SEQ #13767, is documented as Moderate. Central Regurgitation, SEQ #137676, is a child field of Mitral Regurgitation, SEQ #13494.

Denominator: The total number of TMVR discharges that were discharged during the reporting period in which Mitral Regurgitation, SEQ #13494, is documented as Trace/Trivial, Mild, Moderate, Moderate-Severe, or Severe. Excluding Death During Procedure, SEQ #10120, documented as Yes and/or Procedure Aborted, SEQ #13505, documented as Yes.

---

## Severe

---

Numerator: The number of TMVR discharges that were discharged during the reporting period in which Central Regurgitation, SEQ #13767, is documented as Severe. Central Regurgitation, SEQ #137676, is a child field of Mitral Regurgitation, SEQ #13494.

Denominator: The total number of TMVR discharges that were discharged during the reporting period in which Mitral Regurgitation, SEQ #13494, is documented as Trace/Trivial, Mild, Moderate, Moderate-Severe, or Severe. Excluding Death During Procedure, SEQ #10120, documented as Yes and/or Procedure Aborted, SEQ #13505, documented as Yes.

---

## Not Documented

---

Numerator: The number of TMVR discharges that were discharged during the reporting period in which Central Regurgitation, SEQ #13767, is documented as Not Documented. Central Regurgitation, SEQ #137676, is a child field of Mitral Regurgitation, SEQ #13494.

Denominator: The total number of TMVR discharges that were discharged during the reporting period in which Mitral Regurgitation, SEQ #13494, is documented as Trace/Trivial, Mild, Moderate, Moderate-Severe, or Severe. Excluding Death During Procedure, SEQ #10120, documented as Yes and/or Procedure Aborted, SEQ #13505, documented as Yes.

---

## Mitral Valve Mean Gradient Acceptable ( $\leq 5$ mmHg)

---

Numerator: The number of TMVR discharges that were discharged during the reporting period in which the MV Mean Gradient (highest), SEQ #13770, is documented as  $\leq 5$  mmHg.

Denominator: The total number of TMVR discharges that were discharged during the reporting period. Excluding Death During Procedure, SEQ #10120, documented as Yes and/or Procedure Aborted, SEQ #13505, documented as Yes.

---

## **Mitral Valve Mean Gradient Possibly Acceptable ( $\leq 8$ mmHg)**

---

Numerator: The number of TMVR discharges that were discharged during the reporting period in which the MV Mean Gradient (highest), SEQ #13770, is documented as  $\leq 8$  mmHg.

Denominator: The total number of TMVR discharges that were discharged during the reporting period. Excluding Death During Procedure, SEQ #10120, documented as Yes and/or Procedure Aborted, SEQ #13505, documented as Yes.

---

## **Systolic Anterior Motion Present on Echo**

---

Numerator: The number of TMVR discharges that were discharged during the reporting period in which SAM, Systolic Anterior Motion, SEQ #13774, is documented as Yes.

Denominator: The total number of TMVR discharges that were discharged during the reporting period. Excluding Death During Procedure, SEQ #10120, documented as Yes and/or Procedure Aborted, SEQ #13505, documented as Yes.

---

## Discharge

---

---

### Discharge Status

---

---

#### Alive

---

Numerator: The number of TMVR discharges that were discharged during the reporting period where Discharge, Status SEQ #10105, is documented as Alive.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

### Cardiac Rehab Referral

---

Numerator: The number of TMVR discharges that were discharged during the reporting period where Discharge Status, SEQ #10105, is documented as Alive and Cardiac Rehabilitation Referral, SEQ #10116, is documented as Yes.

Denominator: The total number of TMVR discharges that were discharged during the reporting period. Excluding procedures where Procedure Aborted, SEQ #13505, is documented as Yes, or Discharge Status, SEQ #10105, is documented as Deceased, or Hospice Care, SEQ #10115, is documented as Yes, or Discharge Location, SEQ #10110, is documented as Other Acute Care Hospital, or Left Against Medical Advice.

---

#### Deceased

---

Numerator: The number of TMVR discharges that were discharged during the reporting period where Discharge Status, SEQ #10105, is documented as Deceased.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

### Death During Procedure

---

Numerator: The number of TMVR discharges that were discharged during the reporting period where Death During Procedure, SEQ #10120, is documented as Yes.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

### Cause of Death

---

---

#### Acute MI

---

Numerator: The number of TMVR discharges that were discharged during the reporting period where Discharge Status, SEQ #10105, is documented as Deceased and Cause of Death, SEQ #10125, is documented as Acute MI.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

#### Sudden Cardiac Death

---

Numerator: The number of TMVR discharges that were discharged during the reporting period where Discharge Status, SEQ #10105, is documented as Deceased and Cause of Death, SEQ #10125, is documented as Sudden Cardiac Death.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

#### Heart Failure

---

Numerator: The number of TMVR discharges that were discharged during the reporting period where Discharge Status, SEQ #10105, is documented as Deceased and Cause of Death, SEQ #10125, is documented as Heart Failure.

---



Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

### **Stroke**

---

Numerator: The number of TMVR discharges that were discharged during the reporting period where Discharge Status, SEQ #10105, is documented as Deceased and Cause of Death, SEQ #10125, is documented as Stroke.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

### **Cardiovascular Procedure**

---

Numerator: The number of TMVR discharges that were discharged during the reporting period where Discharge Status, SEQ #10105, is documented as Deceased and Cause of Death, SEQ #10125, is documented as Cardiovascular Procedure.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

### **Cardiovascular Hemorrhage**

---

Numerator: The number of TMVR discharges that were discharged during the reporting period where Discharge Status, SEQ #10105, is documented as Deceased and Cause of Death, SEQ #10125, is documented as Cardiovascular Hemorrhage.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

### **Other Cardiovascular Reason**

---

Numerator: The number of TMVR discharges that were discharged during the reporting period where Discharge Status, SEQ #10105, is documented as Deceased and Cause of Death, SEQ #10125, is documented as Other Cardiovascular Reason.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

### **Pulmonary**

---

Numerator: The number of TMVR discharges that were discharged during the reporting period where Discharge Status, SEQ #10105, is documented as Deceased and Cause of Death, SEQ #10125, is documented as Pulmonary.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

### **Renal**

---

Numerator: The number of TMVR discharges that were discharged during the reporting period where Discharge Status, SEQ #10105, is documented as Deceased and Cause of Death, SEQ #10125, is documented as Renal.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

### **Gastrointestinal**

---

Numerator: The number of TMVR discharges that were discharged during the reporting period where Discharge Status, SEQ #10105, is documented as Deceased and Cause of Death, SEQ #10125, is documented as Gastrointestinal.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

### **Hepatobiliary**

---

Numerator: The number of TMVR discharges that were discharged during the reporting period where Discharge Status, SEQ #10105, is documented as Deceased and Cause of Death, SEQ #10125, is documented as Hepatobiliary.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

### **Pancreatic**

---

Numerator: The number of TMVR discharges that were discharged during the reporting period where Discharge Status, SEQ #10105, is documented as Deceased and Cause of Death, SEQ #10125, is documented as Pancreatic.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

### **Infection**

---

Numerator: The number of TMVR discharges that were discharged during the reporting period where Discharge Status, SEQ #10105, is documented as Deceased and Cause of Death, SEQ #10125, is documented as Infection.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

### **Inflammatory/Immunologic**

---

Numerator: The number of TMVR discharges that were discharged during the reporting period where Discharge Status, SEQ #10105, is documented as Deceased and Cause of Death, SEQ #10125, is documented as Inflammatory/Immunologic.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

### **Hemorrhage**

---

Numerator: The number of TMVR discharges that were discharged during the reporting period where Discharge Status, SEQ #10105, is documented as Deceased and Cause of Death, SEQ #10125, is documented as Hemorrhage.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

### **Non-Cardiovascular Procedure or Surgery**

---

Numerator: The number of TMVR discharges that were discharged during the reporting period where Discharge Status, SEQ #10105, is documented as Deceased and Cause of Death, SEQ #10125, is documented as Non-Cardiovascular Procedure or Surgery.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

### **Trauma**

---

Numerator: The number of TMVR discharges that were discharged during the reporting period where Discharge Status, SEQ #10105, is documented as Deceased and Cause of Death, SEQ #10125, is documented as Trauma.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

### **Suicide**

---

Numerator: The number of TMVR discharges that were discharged during the reporting period where Discharge Status, SEQ #10105, is documented as Deceased and Cause of Death, SEQ #10125, is documented as Suicide.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

### **Neurological**

---

Numerator: The number of TMVR discharges that were discharged during the reporting period where Discharge Status, SEQ #10105, is documented as Deceased and Cause of Death, SEQ #10125, is documented as Neurological.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

### **Malignancy**

---

Numerator: The number of TMVR discharges that were discharged during the reporting period where Discharge Status, SEQ #10105, is documented as Deceased and Cause of Death, SEQ #10125, is documented as Malignancy.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

### **Other Non-Cardiovascular Reason**

---

Numerator: The number of TMVR discharges that were discharged during the reporting period where Discharge Status, SEQ #10105, is documented as Deceased and Cause of Death, SEQ #10125, is documented as Other Non-Cardiovascular Reason.

Denominator: The total number of TMVR discharges that were discharged during the reporting period.

---

## Discharge Location

---

### Home

---

Numerator: The number of TMVR discharges that were discharged during the reporting period where Discharge Status, SEQ #10105, is documented as Alive and Discharge Location, SEQ #10110, is documented as Home.

Denominator: The total number of TMVR discharges that were discharged during the reporting period. Excluding discharges where Discharge Status, SEQ #10105, is documented as Deceased.

---

### Extended Care/TCU/Rehab

---

Numerator: The number of TMVR discharges that were discharged during the reporting period where Discharge Status, SEQ #10105, is documented as Alive and Discharge Location, SEQ #10110, is documented as Extended Care/TCU/Rehab.

Denominator: The total number of TMVR discharges that were discharged during the reporting period. Excluding discharges where Discharge Status, SEQ #10105, is documented as Deceased.

---

### Other Acute Care Hospital

---

Numerator: The number of TMVR discharges that were discharged during the reporting period where Discharge Status, SEQ #10105, is documented as Alive and Discharge Location, SEQ #10110, is documented as Other Acute Care Hospital.

Denominator: The total number of TMVR discharges that were discharged during the reporting period. Excluding discharges where Discharge Status, SEQ #10105, is documented as Deceased.

---

### Skilled Nursing Facility

---

Numerator: The number of TMVR discharges that were discharged during the reporting period where Discharge Status, SEQ #10105, is documented as Alive and Discharge Location, SEQ #10110, is documented as Skilled Nursing Facility.

Denominator: The total number of TMVR discharges that were discharged during the reporting period. Excluding discharges where Discharge Status, SEQ #10105, is documented as Deceased.

---

### Left AMA

---

Numerator: The number of TMVR discharges that were discharged during the reporting period where Discharge Status, SEQ #10105, is documented as Alive and Discharge Location, SEQ #10110, is documented as Left Against Medical Advice (AMA).

Denominator: The total number of TMVR discharges that were discharged during the reporting period. Excluding discharges where Discharge Status, SEQ #10105, is documented as Deceased.

---

### Other Discharge Location

---

Numerator: The number of TMVR discharges that were discharged during the reporting period where Discharge Status, SEQ #10105, is documented as Alive and Discharge Location, SEQ #10110, is documented as Other Discharge Location.

Denominator: The total number of TMVR discharges that were discharged during the reporting period. Excluding discharges where Discharge Status, SEQ #10105, is documented as Deceased.

---

### Total Length of Stay

---

Computes the mean, median, and standard deviation of the number of days a patient was hospitalized that were discharged during the reporting period. Computed as the Discharge Date SEQ #10100 minus the Arrival Date SEQ #3001.

---

### Post-Procedure Length of Stay

---

Computes the mean, median, and standard deviation of the number of days a patient remained hospitalized after their first TMVR procedure that were discharged during the reporting period. Computed as the difference between the Procedure Start Date SEQ #7000 and Discharge Date SEQ #10100.

---

## Discharge Medical Therapy

---

---

### Anticoagulant

---

Numerator: The number of TMVR discharges that Discharge Status, SEQ #10105, was documented as Alive during the reporting period and Anticoagulant SEQ #10200, Direct Thrombin Inhibitor and/or Warfarin, and Prescribed, SEQ #10205, is documented as Yes.

Denominator: The total number of TMVR discharges that were discharged during the reporting period that had Discharge Status, SEQ #10105, documented as Alive.

Exclusions: Discharge Status, SEQ #10105, is documented as Deceased, Discharge Medications Antiplatelet SEQ #10200 and Prescribed SEQ #10205 is documented as No - Medical Reason, Discharge Location, SEQ #10110, is documented as Other Acute Care Hospital OR Left Against Medical Advice, Hospice Care, SEQ #10115, is documented as Yes, or Conversion to Open Heart Surgery, SEQ #13542, is documented as Yes.

---

### Antiplatelet

---

Numerator: The number of TMVR discharges that Discharge Status, SEQ #10105, was documented as Alive during the reporting period and Antiplatelet, SEQ #10200, Aspirin and/or P2Y12 Inhibitor, and Prescribed, SEQ #10205, is documented as Yes.

Denominator: The total number of TMVR discharges that were discharged during the reporting period that had Discharge Status, SEQ #10105, documented as Alive.

Exclusions: Discharge Status, SEQ #10105, is documented as Deceased, Discharge Medications Antiplatelet, SEQ #10200, and Prescribed, SEQ #10205, is documented as No - Medical Reason, Discharge Location, SEQ #10110, is documented as Other Acute Care Hospital OR Left Against Medical Advice, Hospice Care, SEQ #10115, is documented as Yes, or Conversion to Open Heart Surgery, SEQ #13542, is documented as Yes.

---

### Non-Vitamin K Dependent Oral Anticoagulant

---

Numerator: The number of TMVR discharges that Discharge Status, SEQ #10105, was documented as Alive during the reporting period and Non-Vitamin K Dependent Oral Anticoagulant, SEQ #10200, Direct Factor Xa Inhibitors, and Prescribed, SEQ #10205, is documented as Yes.

Denominator: The total number of TMVR discharges that were discharged during the reporting period that had Discharge Status, SEQ #10105, documented as Alive.

Exclusions: Discharge Status, SEQ #10105, is documented as Deceased, Discharge Medications Non-Vitamin K Dependent Oral Anticoagulant, SEQ #10200, and Prescribed, SEQ #10205, is documented as No - Medical Reason, Discharge Location, SEQ #10110, is documented as Other Acute Care Hospital OR Left Against Medical Advice, Hospice Care, SEQ #10115, is documented as Yes, or Conversion to Open Heart Surgery, SEQ #13542, is documented as Yes.

---

### P2Y12 Inhibitor

---

Numerator: The number of TMVR discharges that Discharge Status, SEQ #10105, was documented as Alive during the reporting period and P2Y12 Inhibitor, SEQ #10200, and Prescribed, SEQ #10205, is documented as Yes.

Denominator: The total number of TMVR discharges that were discharged during the reporting period that had Discharge Status, SEQ #10105, documented as Alive.

Exclusions: Discharge Status, SEQ #10105, is documented as Deceased, Discharge Medications P2Y12 Inhibitor, SEQ #10200, and Prescribed, SEQ #10205, is documented as No - Medical Reason, Discharge Location, SEQ #10110, is documented as Other Acute Care Hospital OR Left Against Medical Advice, Hospice Care, SEQ #10115, is documented as Yes, or Conversion to Open Heart Surgery, SEQ #13542, is documented as Yes.

---

### SAPT

---

Numerator: The number of TMVR discharges that Discharge Status, SEQ #10105, was documented as Alive during the reporting period and Aspirin OR P2Y12 Inhibitor, not both, SEQ #10200, Aspirin OR P2Y12 Inhibitor, and Prescribed, SEQ #10205, is

documented as Yes.

Denominator: The total number of TMVR discharges that were discharged during the reporting period that had Discharge Status, SEQ #10105, documented as Alive.

Exclusions: Discharge Status, SEQ #10105, is documented as Deceased, Discharge Medications P2Y12 Inhibitor, SEQ #10200, and Prescribed, SEQ #10205, is documented as No - Medical Reason, Discharge Location, SEQ #10110, is documented as Other Acute Care Hospital OR Left Against Medical Advice, Hospice Care, SEQ #10115, is documented as Yes, or Conversion to Open Heart Surgery, SEQ #13542, is documented as Yes.

---

## **DAPT**

---

Numerator: The number of TMVR discharges that Discharge Status, SEQ #10105, was documented as Alive during the reporting period and Aspirin AND P2Y12 Inhibitor, SEQ #10200, and Prescribed, SEQ #10205, is documented as Yes.

Denominator: The total number of TMVR discharges that were discharged during the reporting period that had Discharge Status, SEQ #10105, documented as Alive.

Exclusions: Discharge Status, SEQ #10105, is documented as Deceased, Discharge Medications P2Y12 Inhibitor, SEQ #10200, and Prescribed, SEQ #10205, is documented as No - Medical Reason, Discharge Location, SEQ #10110, is documented as Other Acute Care Hospital OR Left Against Medical Advice, Hospice Care, SEQ #10115, is documented as Yes, or Conversion to Open Heart Surgery, SEQ #13542, is documented as Yes.

---

## **SAPT + Anticoagulant**

---

Numerator: The number of TMVR discharges that Discharge Status, SEQ #10105, was documented as Alive during the reporting period and Aspirin OR P2Y12 Inhibitor, not both, AND Warfarin OR Direct Thrombin Inhibitor, SEQ #10200, and Prescribed, SEQ #10205, is documented as Yes.

Denominator: The total number of TMVR discharges that were discharged during the reporting period that had Discharge Status, SEQ #10105, documented as Alive.

Exclusions: Discharge Status, SEQ #10105, is documented as Deceased, Discharge Medications P2Y12 Inhibitor, SEQ #10200, and Prescribed, SEQ #10205, is documented as No - Medical Reason, Discharge Location, SEQ #10110, is documented as Other Acute Care Hospital OR Left Against Medical Advice, Hospice Care, SEQ #10115, is documented as Yes, or Conversion to Open Heart Surgery, SEQ #13542, is documented as Yes.

---

## **Anticoagulant Only**

---

Numerator: The number of TMVR discharges that Discharge Status, SEQ #10105, was documented as Alive during the reporting period and Warfarin or Direct Thrombin Inhibitor, SEQ #10200, and Prescribed, SEQ #10205, is documented as Yes and Antiplatelet, SEQ #10200, AND P2Y12 Inhibitors, SEQ #10200, are documented as No.

Denominator: The total number of TMVR discharges that were discharged during the reporting period that had Discharge Status, SEQ #10105, documented as Alive.

Exclusions: Discharge Status, SEQ #10105, is documented as Deceased, Discharge Medications P2Y12 Inhibitor, SEQ #10200, and Prescribed, SEQ #10205, is documented as No - Medical Reason, Discharge Location, SEQ #10110, is documented as Other Acute Care Hospital OR Left Against Medical Advice, Hospice Care, SEQ #10115, is documented as Yes, or Conversion to Open Heart Surgery, SEQ #13542, is documented as Yes.

---

## **No Anticoagulant, No Antiplatelet**

---

Numerator: The number of TMVR discharges that Discharge Status, SEQ #10105, was documented as Alive during the reporting period and Aspirin, P2Y12 Inhibitor, Direct Thrombin Inhibitors AND Warfarin, SEQ #10200, and Prescribed, SEQ #10205, is documented as No - No Reason, No - Medical Reason, OR No - Pt Reason.

Denominator: The total number of TMVR discharges that were discharged during the reporting period that had Discharge Status, SEQ #10105, documented as Alive.

Exclusions: Discharge Status, SEQ #10105, is documented as Deceased, Discharge Medications P2Y12 Inhibitor, SEQ #10200, and Prescribed, SEQ #10205, is documented as No - Medical Reason, Discharge Location, SEQ #10110, is documented as Other Acute Care Hospital OR Left Against Medical Advice, Hospice Care, SEQ #10115, is documented as Yes, or Conversion to Open Heart Surgery, SEQ #13542, is documented as Yes.

---

## Site Blinded Graphs

---

Each of the graphs is a bar plot. On the x axis, each hospital is listed. On the y axis, the metric displayed on the graph.

The hospitals are not listed by their hospital code number, but rather, the data is sorted, and the hospitals are assigned new numbers, 1-n (where n is the number of hospitals). This number is called the "blinded" hospital code. It shows what rank your hospital has in the metrics, without showing you which other hospitals had which ranks. For convenience, we also color the bar representing your hospital.

Shared Decision Making

KCCQ @ baseline

KCCQ @ baseline and 30 days - matched pairs

NYHA documented @ 30 days

Echo post-procedure

Transfusion - PRBCs

Bleeding/Vasc Comps

Contrast Volume

CV/eGFR  $\geq 3$  (all TMVR procedures)

CIN

AKI

CR Referral prior to DC