

BMC<sub>2</sub>

## MISHC TAVR Report Dictionary

A guide that provides line item detail for Michigan TAVR hospital reports.  
Updated 11/1/2023

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## Dashboard

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### Discharges

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

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

(This will always show as 100%.)

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### Procedures

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

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

(This will always show as 100%.)

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### TAVR with Concomitant Procedure

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Numerator: The total number of TAVR procedures that were discharged during the reporting period with Concomitant Procedures Performed, #7065, documented as Yes.

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

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### Procedure Aborted

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

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

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### Post-Procedure Length of Stay

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

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### Length of Stay

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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.

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### Age

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Computes the mean, median, and standard deviation of the age of patients undergoing TAVR procedures that were discharged during the reporting period. Calculated with Birth Date SEQ #2050.

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### Discharge Status

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#### Alive

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

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

## Deceased

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

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

## Events

Numerator: The number of TAVR procedures that were discharged during the reporting period where Intra or Post-Procedure Events, SEQ #12153, is documented as Yes.

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

## Permanent Pacemaker

Numerator: The number of TAVR discharges that were discharged during the reporting period where Adverse Events, SEQ #12153, and Permanent Pacemaker, SEQ #9002, are documented as Yes.

Denominator: The total number of TAVR procedures that were discharged during the reporting period excluding Pre-Procedure Permanent Pacemaker is documented as Yes.

## Stroke - All

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

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

## CIN

CIN is defined as Post-Procedure Highest Creatinine, SEQ #13764, or Discharge Creatinine, SEQ #10060, if Highest Creatinine is not documented, minus Pre-Procedure Creatinine, SEQ #6050, is greater than or equal to 0.5.

Numerator: The number of TAVR discharges that were discharged during the reporting period in which all of the following things are true:

- At least one TAVR procedure has a value for Pre-Procedure Creatinine, SEQ #6050.
- The TAVR procedure record, with a Pre-Procedure Creatinine value, SEQ #6050, has a value for Highest Creatinine, SEQ #13764, or the Discharge Creatinine, SEQ #10060.
- The patient is not documented as Currently on Dialysis pre-procedure, SEQ #13880.

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

Exclusions: The patient is documented as Currently on Dialysis pre-procedure, SEQ #13880.

## AKI

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

1. The difference between pre and post procedure Creatinine, SEQ #6050 and #13764, is  $>$  or  $=$  300%; OR
2. Pre-procedure Creatinine, SEQ #6050, is  $>$  or  $=$  4 mg/dL AND the difference between pre and post procedure, SEQ #13764, highest Creatinine is  $>$  or  $=$  0.5; OR
3. Event code of Dialysis - New Requirement, SEQ #12153 or
4. The patient is not marked as Currently on Dialysis SEQ #13880.

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

Exclusions: The patient is documented as Currently on Dialysis pre-procedure SEQ #13880.

## Transfusion

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

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

## Bleeding/Vasc Comps

Numerator: The number of TAVR discharges that were discharged during the reporting period in which Events, SEQ #12153, and Bleeding - Access Site, Bleeding - Hematoma at Access Site OR Bleeding - Retroperitoneal Bleeding are documented as Yes. If more than one bleeding option is documented as Yes per procedure, count that procedure only one time.

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

## Goals/CMS Requirements

### KCCQ Completion @ Baseline

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

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

### KCCQ Completion @ 30 D

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

Denominator: The total number of TAVR discharges undergoing one or more TAVR 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 Completion @ 1 Y

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

Denominator: The total number of TAVR discharges undergoing one or more TAVR procedures during the reporting period in which Discharge Status, SEQ #10105, is documented as Alive and Procedure Aborted, SEQ #13505, is documented as No AND 30 day Follow Up Status, SEQ #11004, is documented as Alive.

## 2024 VBR Goals

### CV/eGFR $\geq 3$ (no concomitant proc) $\leq 5\%$

Numerator: Number of TAVR procedures that were discharged during the reporting period where Concomitant Procedure, SEQ #7065, is documented as No, and Contrast Volume/eGFR ratio is  $\geq 3$ . SEQ #'s: 2050, 2060, 2070 - 2076, 6005, 6050 - 6051, 13764 - 14293, 7215.

Denominator: Total TAVR procedures that were discharged during the reporting period without a Concurrent Procedure, SEQ #7065, with exclusion of procedures lacking information in data fields used to calculate this field, as well as patients Currently on Dialysis, SEQ #13880. Fields used to calculate eGFR include Birth Date, Race, Sex, Weight, Creatinine, and Contrast Volume.

Excluding patients documented as Currently on Dialysis pre-procedure, SEQ #13880.

Values are not rounded.

### KCCQ at baseline and 30 D $\geq 95\%$

Numerator: The number of TAVR 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 TAVR discharges that were discharged during the reporting period that did not have a Discharge Status, SEQ #10105, documented as Deceased on the base record or Deceased documented on the 30 day follow up record, SEQ #11004.

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

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## **NYHA class documented at 30 D $\geq$ 92%**

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

Excluding TAVR discharges where the only TAVR procedure, or all TAVR procedures, documented Procedure Aborted, SEQ #13505, as Yes, or Deceased documented on the 30 day follow up record, SEQ #11004..

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## **2025 VBR Goals**

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### **Cardiac Rehab Referral Prior to Discharge $\geq$ 90%**

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Numerator: The number of TAVR discharges that Discharge Status SEQ #10105 was documented as Alive during the reporting period and Cardiac Rehab Referral Prior to DC SEQ #10116 is documented as Yes.

Denominator: The total number of TAVR 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.

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### **AV Mean Gradient documented at 1 Year $\geq$ 75%**

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Numerator: The number of TAVR discharges that were discharged during the reporting period containing at least one follow up form as of the date the report is generated for the 30 day time period in which AV Mean Gradient SEQ #13676 is documented with a numeric value.

Denominator: 30 day follow up - The total number of TAVR discharges undergoing one or more TAVR procedures during the reporting period in which Discharge Status SEQ #10105 is documented as Alive and Procedure Aborted SEQ #13505 is documented as No.

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## MISHC TAVR Quality Goals

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### Echocardiogram Post-Procedure $\geq 95\%$

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

Denominator: Denominator: The total number of TAVR discharges that were discharged during the reporting period that did not have Death During Procedure SEQ #10120 documented as yes or Procedure Aborted SEQ #13505 documented as Yes.

Exclusions: Death During Procedure and Procedure Aborted.

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### 30 Day Follow Up Submission 99%

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Numerator: 30 day follow up - The total number of TAVR discharges that were discharged during the reporting period containing at least one follow up form as of the date the report is generated for the 30 day time period in which Discharge Status SEQ #10105 is documented as Alive and Procedure Aborted SEQ #13505 is documented as No and containing at least one follow up form as of the date the report is generated for the 30 day time period.

Denominator: 30 day follow up - The total number of TAVR discharges undergoing one or more TAVR procedures during the reporting period in which Discharge Status SEQ #10105 is documented as Alive and Procedure Aborted SEQ #13505 is documented as No.

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### 1 Year Follow Up Submission 99%

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Numerator: 1 year follow up - The total number of TAVR discharges that were discharged during the reporting period which is due during this reporting period (1 year and 1 quarter behind the baseline data to correspond with the TVT registry data entry deadlines) containing at least one follow up form as of the date the report is generated for the 30 day time period in which Discharge Status SEQ #10105 is documented as Alive and Procedure Aborted SEQ #13505 is documented as No, AND 30 day Follow Up Status SEQ #11004 is documented as Alive and containing at least one follow up form as of the date the report is generated for the 1 year time period.

Denominator: 1 year follow up - The total number of TAVR discharges undergoing one or more TAVR procedures during the reporting period (1 year and 1 quarter behind the baseline data to correspond with the TVT registry data entry deadlines) in which Discharge Status SEQ #10105 is documented as Alive and Procedure Aborted SEQ #13505 is documented as No, AND 30 day Follow Up Status SEQ #11004 is documented as Alive.

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### Bleeding/Vascular Complications $\leq 2\%$

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

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### Transfusion $\leq 8\%$

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

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

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[◀ Intra or Post Procedure Eventsup](#)

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## CIN

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CIN is defined as Post-Procedure Creatinine (highest) SEQ #13764 or Creatinine (discharge) SEQ #10060, if highest Creatinine is not documented, minus Pre-Procedure Creatinine SEQ #6050 is  $\geq$  to 0.5.

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

- At least one TAVR procedure has a value for Pre-Procedure Creatinine SEQ #6050.
- The TAVR procedure record (with a pre-procedure creatinine value) has a value for Highest Creatinine SEQ #13764 OR the Discharge Creatinine SEQ #10060.
- The patient is not marked as Currently on Dialysis SEQ # 13880 pre-procedure.

Denominator: The total number of TAVR discharges that were discharged during the reporting period excluding Currently on Dialysis (pre-procedure) SEQ #13880 and/or Procedure Aborted SEQ #13505 is documented as Yes.

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## AKI

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Numerator: The number of TAVR procedures with at least one of the following:

1. The difference between pre-procedure Creatinine SEQ #6050 and Creatinine (highest) SEQ #13764 or Creatinine (discharge) SEQ #10060 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 OR

Denominator: The total number of TAVR discharges that were discharged during the reporting period excluding Currently on Dialysis (pre-procedure) SEQ #13880 and/or Procedure Aborted SEQ #13505 is documented as Yes.

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## Demographics/History

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### Sex - Male

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

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

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### Race

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#### White

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

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

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#### Black/African American

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

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

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#### American Indian/Alaskan Native

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

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

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#### Asian

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

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

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#### Native Hawaiian/Pacific Islander

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

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

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#### Hispanic/Latino

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

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

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

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

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## History

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### Afib

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Numerator: The total number of TAVR 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 TAVR discharges that were discharged during the reporting period.

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### Carotid Artery Stenosis (CAS)

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Numerator: The total number of TAVR discharges that were discharged during the reporting period with Carotid Artery Stenosis (CAS) documented as yes SEQ #14264 in Condition History SEQ #12903.

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

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### Conduction Defect

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Numerator: The total number of TAVR discharges that were discharged during the reporting period with Conduction Defect documented as yes SEQ #14264 in Condition History SEQ #12903.

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

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### CVA

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

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

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### Dementia

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Numerator: The total number of TAVR discharges that were discharged during the reporting period with Dementia documented as yes SEQ #14264 in Condition History SEQ #12903.

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

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### Diabetes

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

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

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### Liver Disease

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Numerator: The total number of TAVR 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 TAVR discharges that were discharged during the reporting period.

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### MI

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Numerator: The total number of TAVR discharges that were discharged during the reporting period with Myocardial Infarction (MI) documented as yes SEQ #14264 in Condition History SEQ #12903.

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

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## **PAD**

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Numerator: The total number of TAVR discharges that were discharged during the reporting period with Peripheral Arterial Disease (PAD) documented as yes SEQ #14264 in Condition History SEQ #12903.

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

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## **TIA**

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Numerator: The total number of TAVR discharges that were discharged during the reporting period with Transient Ischemic Attack (TIA) documented as yes SEQ #14264 in Condition History SEQ #12903.

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

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## **Currently on Dialysis**

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

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

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## **Tobacco Use**

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### **Current**

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

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

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### **Former**

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Numerator: The total number of TAVR discharges that were discharged during the reporting period with Tobacco Use, Former documented SEQ #4625.

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

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### **Never**

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Numerator: The total number of TAVR discharges that were discharged during the reporting period with Tobacco Use, Never documented SEQ #4625.

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

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## **SAVR**

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Numerator: The total number of TAVR discharges that were discharged during the reporting period with Aortic Valve Replacement Surgery (SAVR) documented as yes SEQ #14268 in Procedure History SEQ #12905.

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

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## **TAVR**

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

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

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## **BAV**

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Numerator: The total number of TAVR discharges that were discharged during the reporting period with Aortic Valve Balloon Valvuloplasty (BAV) documented as yes SEQ #14268 in Procedure History SEQ #12905.

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

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## **CABG**

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Numerator: The total number of TAVR discharges that were discharged during the reporting period with Coronary Artery Bypass Graft (CABG) documented as yes SEQ #14268 in Procedure History SEQ #12905.

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

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## **PCI**

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Numerator: The total number of TAVR discharges that were discharged during the reporting period with PCI documented as yes SEQ #14268 in Procedure History SEQ #12905.

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

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## **Pacemaker**

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Numerator: The total number of TAVR 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 TAVR discharges that were discharged during the reporting period.

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## **ICD**

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Numerator: The total number of TAVR discharges that were discharged during the reporting period with Implantable Cardioverter Defibrillator (ICD) documented as yes SEQ #14268 in Procedure History SEQ #12905.

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

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## Pre-Procedure Information

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### KCCQ-12 Performed

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

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

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

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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.

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### STS Mortality Risk Score (mean, st. dev.)

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#### < 3%

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Numerator: The number of TAVR procedures that were discharged during the reporting period in which the STS Risk Score SEQ #14271 is documented as < 3%.

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

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#### 3 - < 8%

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Numerator: The number of TAVR procedures that were discharged during the reporting period in which the STS Risk Score SEQ #14271 is documented as 3 to < 8%.

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

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#### ≥ 8%

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Numerator: The number of TAVR procedures that were discharged during the reporting period in which the STS Risk Score SEQ #14271 is documented as > or = to 8%.

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

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### Heart Team Evaluation of Suitability for Surgical Replacement

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Numerator: The number of TAVR procedures that were discharged during the reporting period where the Heart Team Evaluation of Suitability for Surgical Replacement was documented as yes SEQ #13504.

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

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### Shared Decision Making

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

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

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## Heart Team Reason for Procedure

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### Low Risk

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

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

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### Intermediate Risk

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

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

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### High Risk

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

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

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### Extreme Risk

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

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

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## 5 Meter Walk Test Performed

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Numerator: The number of TAVR discharges that were discharged during the reporting period in which Five Meter Walk Test SEQ #13191 is documented as Performed.

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

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## 5 Meter Walk Test Not Performed

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Numerator: The number of TAVR discharges that were discharged during the reporting period in which Five Meter Walk Test SEQ #13191 is documented as Not Performed.

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

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## 5 Meter Walk Test Unable to Walk

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Numerator: The number of TAVR discharges that were discharged during the reporting period in which Five Meter Walk Test SEQ #13191 is documented as Unable to Walk.

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

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## NYHA Class Documented

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### Class I

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

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

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## **Class II**

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

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

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## **Class III**

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

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

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## **Class IV**

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

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

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## Procedural Information

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### Valve Morphology

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#### Bicuspid

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Numerator: The number of TAVR discharges that were discharged during the reporting period in which Aortic Valve Morphology SEQ #13468 is documented as Bicuspid.

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

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#### Tricuspid

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Numerator: The number of TAVR discharges that were discharged during the reporting period in which Aortic Valve Morphology SEQ #13468 is documented as Tricuspid.

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

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### Procedure Indication

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#### Aortic Regurgitation

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Numerator: The number of TAVR discharges that were discharged during the reporting period in which the Primary Procedure Indication SEQ #13498 is documented as Regurgitation.

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

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#### Aortic Stenosis

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Numerator: The number of TAVR discharges that were discharged during the reporting period in which the Primary Procedure Indication SEQ #13498 is documented as Aortic Stenosis.

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

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#### Low Flow

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Numerator: The number of TAVR discharges that were discharged during the reporting period in which Aortic Stenosis SEQ #13307 is documented as Yes, and Low Flow SEQ #13700 is documented as Yes.

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

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### Procedure Status

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#### Elective

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

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

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#### Urgent

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

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

---

## Emergency

---

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

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

---

## Salvage

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

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

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## Procedure Location

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### Cardiac Cath Lab

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Numerator: The number of TAVR procedures that were discharged during the reporting period in which the Procedure Location SEQ #12871 is documented as Cardiac Cath Lab.

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

---

### Hybrid Cath Lab

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Numerator: The number of TAVR procedures that were discharged during the reporting period in which the Procedure Location SEQ #12871 is documented as Hybrid Cath Lab.

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

---

### Hybrid OR Suite

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Numerator: The number of TAVR procedures that were discharged during the reporting period in which the Procedure Location SEQ #12871 is documented as Hybrid OR Suite.

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

---

### Other

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Numerator: The number of TAVR procedures that were discharged during the reporting period in which the Procedure Location SEQ #12871 is documented as Other.

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

---

## Anesthesia Type

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### General

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

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

---

### Deep Sedation

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



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

---

## Moderate Sedation

---

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

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

---

## Minimal Sedation

---

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

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

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## Access Type

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### Axillary

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Numerator: The number of TAVR procedures that were discharged during the reporting period in which the Valve Sheath Access Site SEQ #13507 is documented as Axillary Artery.

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

---

### Carotid

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Numerator: The number of TAVR procedures that were discharged during the reporting period in which the Valve Sheath Access Site SEQ #13507 is documented as Carotid Artery.

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

---

### Direct Aortic

---

Numerator: The number of TAVR procedures that were discharged during the reporting period in which the Valve Sheath Access Site SEQ #13507 is documented as Direct Aortic.

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

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### Femoral

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Numerator: The number of TAVR procedures that were discharged during the reporting period in which the Valve Sheath Access Site SEQ #13507 is documented as Femoral Artery.

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

---

### Iliac

---

Numerator: The number of TAVR procedures that were discharged during the reporting period in which the Valve Sheath Access Site SEQ #13507 is documented as Iliac Artery.

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

---

### Subclavian

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Numerator: The number of TAVR procedures that were discharged during the reporting period in which the Valve Sheath Access Site SEQ #13507 is documented as Subclavian Artery.

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

---

### Transapical

---

Numerator: The number of TAVR procedures that were discharged during the reporting period in which the Valve Sheath Access Site SEQ #13507 is documented as Transapical.

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

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## **Transcaval**

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Numerator: The number of TAVR procedures that were discharged during the reporting period in which the Valve Sheath Access Site SEQ #13507 is documented as Transcaval.

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

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## **Transeptal via Femoral Vein**

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Numerator: The number of TAVR procedures that were discharged during the reporting period in which the Valve Sheath Access Site SEQ #13507 is documented as Transeptal via Femoral Vein.

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

---

## **Other**

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Numerator: The number of TAVR procedures that were discharged during the reporting period in which the Valve Sheath Access Site SEQ #13507 is documented as Other.

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

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## Procedural Information cont.

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### Embolic Protection Deployed

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Numerator: The number of TAVR procedures that were discharged during the reporting period in which the Embolic Protection Deployed Site SEQ #13510 is documented as yes.

Denominator: The total number of TAVR procedures that were discharged during the reporting period, excluding procedures where Aborted SEQ #13505 is documented as Yes.

---

### Device Used

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#### Abbott Navitor

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Numerator: The number of TAVR procedures that were discharged during the reporting period in which the Device ID SEQ #14485 is documented as Abbott Navitor.

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

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#### Abbott Portico

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Numerator: The number of TAVR procedures that were discharged during the reporting period in which the Device ID SEQ #14485 is documented as Abbott Portico.

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

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#### Edwards Sapien 3

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Numerator: The number of TAVR procedures that were discharged during the reporting period in which the Device ID SEQ #14485 is documented as Edwards Sapien 3.

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

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#### Edwards Sapien 3 Ultra

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Numerator: The number of TAVR procedures that were discharged during the reporting period in which the Device ID SEQ #14485 is documented as Edwards Sapien 3 Ultra.

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

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#### Edwards Sapien 3 Ultra Resilia

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Numerator: The number of TAVR procedures that were discharged during the reporting period in which the Device ID SEQ #14485 is documented as Edwards Sapien 3 Ultra Resilia.

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

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#### Medtronic Corevalve Evolut

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Numerator: The number of TAVR procedures that were discharged during the reporting period in which the Device ID SEQ #14485 is documented as Medtronic Corevalve Evolut.

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

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#### Medtronic Corevalve Evolut Pro

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Numerator: The number of TAVR procedures that were discharged during the reporting period in which the Device ID SEQ #14485 is documented as Medtronic Corevalve Evolut Pro.

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

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## Medtronic Corevalve Evolut Pro Plus

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Numerator: The number of TAVR procedures that were discharged during the reporting period in which the Device ID SEQ #14485 is documented as Medtronic Corevalve Evolut Pro Plus.

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

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## Medtronic Evolut FX

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Numerator: The number of TAVR procedures that were discharged during the reporting period in which the Device ID SEQ #14485 is documented as Medtronic Corevalve Evolut FX.

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

---

## Valve-in-Valve Procedure

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Numerator: The number of TAVR procedures that were discharged during the reporting period in which the Valve-in-Valve Procedure SEQ #13500 is documented as yes.

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

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## Bioprosthetic Valve Fracture

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Numerator: The number of TAVR procedures that were discharged during the reporting period in which the Valve-in-Valve Bioprosthetic Valve Fracture SEQ #13501 is documented as yes. This is a child field of Valve-in-Valve Procedure SEQ #13500.

Denominator: The total number of TAVR procedures that were discharged during the reporting period in which the Valve-in-Valve Procedure SEQ #13500 is documented as yes.

---

## Pre-Implant

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Numerator: The number of TAVR procedures that were discharged during the reporting period in which the Bioprosthetic Valve Fracture Timing SEQ #13502 is documented as Pre-Implant. This is a child field of Bioprosthetic Valve Fracture Attempted SEQ #13501.

Denominator: The total number of TAVR procedures that were discharged during the reporting period in which the Bioprosthetic Valve Fracture Attempted SEQ #13501 is documented as yes.

---

## Post-Implant

---

Numerator: The number of TAVR procedures that were discharged during the reporting period in which the Bioprosthetic Valve Fracture Timing SEQ #13502 is documented as Post-Implant. This is a child field of Bioprosthetic Valve Fracture Attempted SEQ #13501.

Denominator: The total number of TAVR procedures that were discharged during the reporting period in which the Bioprosthetic Valve Fracture Attempted SEQ #13501 is documented as yes.

---

## BASILICA

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Numerator: The number of TAVR 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 BASILICA.

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

---

## Conversion to Open Heart Surgery

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

---

## Contrast Volume (ml) without concomitant procedure

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

---

## Contrast Volume (ml) with concomitant procedure

---

Computes the mean and standard deviation of Contrast Volume SEQ #7215 in TAVR 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:  $eGFR_{cr} = 142 \times \min(Scr/k, 1)^\alpha \times \max(Scr/k, 1)^{-1.200} \times 0.9938^{Age} \times 1.012$  [if female]

where:

Scr = standardized serum creatinine in mg/dL

$k = 0.7$  (females) or  $0.9$  (males)

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

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

$\max(Scr/k, 1)$  is the maximum of Scr/k 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.

---

## in all TAVR procedures

---

Numerator: The number of all TAVR procedures discharged during the reporting period calculated to have the ratio of Contrast Volume to eGFR  $\geq$  3. SEQ #'s: Birth Date 2050, Sex 2060, Race 2070-74, Ethnicity 2076, Weight 6005, Creatinine 6050 - 6051, Contrast Volume 7215.

Denominator: The total number of TAVR procedures that were discharged during the reporting period with the exclusion of procedures lacking information in data fields used to calculate this field, as well as patients Currently on Dialysis SEQ #13880. Including Birth Date, Sex, Race, Ethnicity, Weight, Creatinine, and Contrast Volume.

**Excludes patients Currently on Dialysis SEQ #13880**

**Values are not rounded**

---

## without concomitant procedure

---

Numerator: The number of all TAVR procedures discharged during the reporting period where Concomitant Procedures Performed SEQ #7065 is documented as No calculated to have the ratio of Contrast Volume to eGFR  $\geq$  3. SEQ #'s: Birth Date 2050, Sex 2060, Race 2070-74, Ethnicity 2076, Weight 6005, Creatinine 6050 - 6051, Contrast Volume 7215.

Denominator: The total number of TAVR procedures that were discharged during the reporting period with the exclusion of procedures lacking information in data fields used to calculate this field, as well as patients Currently on Dialysis SEQ #13880. Including Birth Date, Sex, Race, Ethnicity, Weight, Creatinine, and Contrast Volume.

**Excludes patients Currently on Dialysis SEQ #13880****Values are not rounded**

---

**with concomitant procedure**

---

Numerator: The number of all TAVR procedures discharged during the reporting period where Concomitant Procedures Performed SEQ #7065 is documented as Yes calculated to have the ratio of Contrast Volume to eGFR  $\geq 3$ . SEQ #'s: Birth Date 2050, Sex 2060, Race 2070-74, Ethnicity 2076, Weight 6005, Creatinine 6050 - 6051, Contrast Volume 7215.

Denominator: The total number of TAVR procedures that were discharged during the reporting period with the exclusion of procedures lacking information in data fields used to calculate this field, as well as patients Currently on Dialysis SEQ #13880. Including Birth Date, Sex, Race, Ethnicity, Weight, Creatinine, and Contrast Volume.

**Excludes patients Currently on Dialysis SEQ #13880****Values are not rounded**

---

**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:  $eGFR_{cr} = 142 \times \min(\text{Scr}/\kappa, 1)^\alpha \times \max(\text{Scr}/\kappa, 1)^{-1.200} \times 0.9938^{\text{Age}} \times 1.012$  [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.

---

**in all TAVR procedures**

---

Numerator: The number of all TAVR procedures discharged during the reporting period calculated to have the ratio of Contrast Volume to eGFR > 2 but < 3. SEQ #'s: Birth Date 2050, Sex 2060, Race 2070-74, Ethnicity 2076, Weight 6005, Creatinine 6050 - 6051, Contrast Volume 7215.

Denominator: The total number of TAVR procedures that were discharged during the reporting period with the exclusion of procedures lacking information in data fields used to calculate this field, as well as patients Currently on Dialysis SEQ #13880. Including Birth Date, Sex, Race, Ethnicity, Weight, Creatinine, and Contrast Volume.

**Excludes patients Currently on Dialysis SEQ #13880****Values are not rounded**

---

**without concomitant procedure**

---

Numerator: The number of all TAVR procedures discharged during the reporting period where Concomitant Procedures Performed SEQ #7065 is documented as No calculated to have the ratio of Contrast Volume to eGFR > 2 but < 3. SEQ #'s: Birth Date 2050, Sex 2060, Race 2070-74, Ethnicity 2076, Weight 6005, Creatinine 6050 - 6051, Contrast Volume 7215.

Denominator: The total number of TAVR procedures that were discharged during the reporting period with the exclusion of procedures lacking information in data fields used to calculate this field, as well as patients Currently on Dialysis SEQ #13880. Including Birth Date, Sex, Race, Ethnicity, Weight, Creatinine, and Contrast Volume.

**Excludes patients Currently on Dialysis SEQ #13880****Values are not rounded**

---

**with concomitant procedure**

---

Numerator: The number of all TAVR procedures discharged during the reporting period where Concomitant Procedures Performed SEQ #7065 is documented as Yes calculated to have the ratio of Contrast Volume to eGFR > 2 but < 3. SEQ #'s: Birth Date 2050, Sex 2060, Race 2070-74, Ethnicity 2076, Weight 6005, Creatinine 6050 - 6051, Contrast Volume 7215.

Denominator: The total number of TAVR procedures that were discharged during the reporting period with the exclusion of procedures lacking information in data fields used to calculate this field, as well as patients Currently on Dialysis SEQ #13880. Including Birth Date, Sex, Race, Ethnicity, Weight, Creatinine, and Contrast Volume.

**Excludes patients Currently on Dialysis SEQ #13880**  
**Values are not rounded**

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## **Dose Area Product**

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Computes the mean and standard deviation of the Dose Area Product SEQ #14278 reported in Gy/cm<sup>2</sup> of all TAVR procedures that were discharged during the reporting period.

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## **Cumulative Air Kerma**

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

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## **Air Kerma $\geq$ 5Gy**

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Numerator: The number of TAVR procedures that were discharged during the reporting period in which Cumulative Air Kerma SEQ #7210 is  $\geq$  5Gy.

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

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## **Fluoro Time**

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

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## Procedural Information cont.

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### Post-Implant AV mean gradient documented

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Numerator: The number of TAVR procedures that were discharged during the reporting period in which the post-implant AV mean Gradient SEQ #14303 has a value documented in mm Hg.

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

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### Post-Implant AR documented

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Numerator: The number of TAVR procedures that were discharged during the reporting period in which the post-implant Aortic Regurgitation SEQ #14304 has a value documented as either None, Trace/Trivial, Mild, Moderate or Severe.

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

---

### None

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Numerator: The number of TAVR procedures that were discharged during the reporting period in which the post-implant Aortic Regurgitation SEQ #14304 has a value documented as None.

Denominator: The total number of TAVR procedures that were discharged during the reporting period in which Aortic Regurgitation SEQ #14304 has a value documented.

---

### Trace/Trivial

---

Numerator: The number of TAVR procedures that were discharged during the reporting period in which the post-implant Aortic Regurgitation SEQ #14304 has a value documented as Trace/Trivial.

Denominator: The total number of TAVR procedures that were discharged during the reporting period in which Aortic Regurgitation SEQ #14304 has a value documented.

---

### Mild

---

Numerator: The number of TAVR procedures that were discharged during the reporting period in which the post-implant Aortic Regurgitation SEQ #14304 has a value documented as Mild.

Denominator: The total number of TAVR procedures that were discharged during the reporting period in which Aortic Regurgitation SEQ #14304 has a value documented.

---

### Moderate

---

Numerator: The number of TAVR procedures that were discharged during the reporting period in which the post-implant Aortic Regurgitation SEQ #14304 has a value documented as Moderate.

Denominator: The total number of TAVR procedures that were discharged during the reporting period in which Aortic Regurgitation SEQ #14304 has a value documented.

---

### Severe

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Numerator: The number of TAVR procedures that were discharged during the reporting period in which the post-implant Aortic Regurgitation SEQ #14304 has a value documented as Severe.

Denominator: The total number of TAVR procedures that were discharged during the reporting period in which Aortic Regurgitation SEQ #14304 has a value documented.

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## Procedures with Intra or Post Procedure Events

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

---

## Annular Rupture

---

Numerator: The number of TAVR procedures that were discharged during the reporting period in which the Intra or Post-Procedure Event Annular Rupture SEQ #12153 and Event Occurred SEQ #9002 is documented as yes.

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

---

## Aortic Dissection

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Numerator: The number of TAVR procedures that were discharged during the reporting period in which the Intra or Post-Procedure Event Aortic Dissection SEQ #12153 and Event Occurred SEQ #9002 is documented as yes.

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

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## Atrial Fibrillation

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

---

## Bleeding - Access Site

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

---

## Bleeding - GI

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

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

---

## Bleeding - GU

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

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

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## Bleeding - Hematoma at Access Site

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

---

## Bleeding - Other

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

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## **Bleeding - Retroperitoneal**

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

---

## **Cardiac Arrest**

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

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## **Cardiac Perforation**

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

---

## **Cardiac Surgery or Intervention - Unplanned**

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

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

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## **Coronary Artery Compression**

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Numerator: The number of TAVR procedures that were discharged during the reporting period in which the Intra or Post-Procedure Event Coronary Artery Compression SEQ #12153 and Event Occurred SEQ #9002 is documented as yes.

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

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## **Device Embolization**

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

---

## **Device Migration**

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

---

## **Device Thrombosis**

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

---

## Device Related Event - Other

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

---

## Dialysis - New Requirement

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

---

## Endocarditis

---

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

---

## ICD

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

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## MI

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

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

---

## PCI

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

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

---

## Permanent Pacemaker

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Numerator: The number of TAVR 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 TAVR procedures that were discharged during the reporting period excluding Pre-Procedure Permanent Pacemaker is documented as Yes.

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## Reintervention - Aortic Valve

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

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

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## **Stroke - Ischemic**

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

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## **Stroke - Hemorrhagic**

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

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## **Stroke - Undetermined**

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

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## **TIA**

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

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

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## **Vascular Complication - Major**

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

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## **Vascular Complication - Minor**

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

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## **Vascular Surgery or Intervention - Unplanned**

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

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## Post Procedure Testing

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### 12 Lead ECG Performed

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Numerator: The number of TAVR 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 TAVR discharges that were discharged during the reporting period that did not have Death During Procedure SEQ #10120 documented as yes or Procedure Aborted SEQ #13505 documented as Yes.

Exclusions: Death During Procedure and Procedure Aborted.

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### No Significant Change

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

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### Pathological Q Wave

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

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### New LBBB

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

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### Cardiac Arrhythmia

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

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### Echocardiogram Performed

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

Denominator: Denominator: The total number of TAVR discharges that were discharged during the reporting period that did not have Death During Procedure SEQ #10120 documented as yes or Procedure Aborted SEQ #13505 documented as Yes.

Exclusions: Death During Procedure and Procedure Aborted.

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### Aortic Regurgitation

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Numerator: The number of TAVR discharges that were discharged during the reporting period in which the Echocardiogram Performed SEQ #13592 is documented as yes, TTE or TEE and Aortic Regurgitation SEQ #13526 is documented as None, Trace/Trivial, Mild, Moderate, or Severe. Aortic Regurgitation is a child field of Echocardiogram Performed.

Denominator: The total number of TAVR discharges that were discharged during the reporting period that did not have Death During Procedure SEQ #10120 documented as yes or Procedure Aborted SEQ #13505 documented as Yes.

Exclusions: Death During Procedure and Procedure Aborted.

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

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## None

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Numerator: The number of TAVR discharges that were discharged during the reporting period in which the Echocardiogram Performed SEQ #13592 is documented as yes, TTE or TEE and Aortic Regurgitation SEQ #13526 is documented as None. Procedures without a value entered for Aortic Regurgitation will be reported as None.

Denominator: The total number of TAVR discharges that were discharged during the reporting period that did not have Death During Procedure SEQ #10120 documented as yes or Procedure Aborted SEQ #13505 documented as Yes.

Exclusions: Death During Procedure and Procedure Aborted.

---

## Trace/Trivial

---

Numerator: The number of TAVR discharges that were discharged during the reporting period in which the Echocardiogram Performed SEQ #13592 is documented as yes, TTE or TEE and Aortic Regurgitation SEQ #13526 is documented as Trace/Trivial.

Denominator: The total number of TAVR discharges that were discharged during the reporting period that did not have Death During Procedure SEQ #10120 documented as yes or Procedure Aborted SEQ #13505 documented as Yes.

Exclusions: Death During Procedure and Procedure Aborted.

---

## Mild

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Numerator: The number of TAVR discharges that were discharged during the reporting period in which the Echocardiogram Performed SEQ #13592 is documented as yes, TTE or TEE and Aortic Regurgitation SEQ #13526 is documented as Mild.

Denominator: The total number of TAVR discharges that were discharged during the reporting period that did not have Death During Procedure SEQ #10120 documented as yes or Procedure Aborted SEQ #13505 documented as Yes.

Exclusions: Death During Procedure and Procedure Aborted.

---

## Moderate

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Numerator: The number of TAVR discharges that were discharged during the reporting period in which the Echocardiogram Performed SEQ #13592 is documented as yes, TTE or TEE and Aortic Regurgitation SEQ #13526 is documented as Moderate.

Denominator: The total number of TAVR discharges that were discharged during the reporting period that did not have Death During Procedure SEQ #10120 documented as yes or Procedure Aborted SEQ #13505 documented as Yes.

Exclusions: Death During Procedure and Procedure Aborted.

---

## Severe

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Numerator: The number of TAVR discharges that were discharged during the reporting period in which the Echocardiogram Performed SEQ #13592 is documented as yes, TTE or TEE and Aortic Regurgitation SEQ #13526 is documented as Severe.

Denominator: The total number of TAVR discharges that were discharged during the reporting period that did not have Death During Procedure SEQ #10120 documented as yes or Procedure Aborted SEQ #13505 documented as Yes.

Exclusions: Death During Procedure and Procedure Aborted.

---

## Not Documented

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Numerator: The number of TAVR discharges that were discharged during the reporting period in which the Echocardiogram Performed SEQ #13592 is documented as yes, TTE or TEE and Aortic Regurgitation SEQ #13526 is documented as Not Documented.

Denominator: The total number of TAVR discharges that were discharged during the reporting period that did not have Death During Procedure SEQ #10120 documented as yes or Procedure Aborted SEQ #13505 documented as Yes.

Exclusions: Death During Procedure and Procedure Aborted.

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## Paravalvular Regurgitation

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Numerator: The number of TAVR discharges that were discharged during the reporting period in which Paravalvular Regurgitation SEQ #14503 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 #14503 is a child field of Aortic Regurgitation SEQ #13526.

Denominator: The total number of TAVR discharges that were discharged during the reporting period in which Aortic Regurgitation SEQ #13526 is documented as Trace/Trivial, Mild, Moderate, or Severe.

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### None

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Numerator: The number of TAVR discharges that were discharged during the reporting period in which Paravalvular Regurgitation SEQ #14503 is documented as None. Paravalvular Regurgitation SEQ #14503 is a child field of Aortic Regurgitation SEQ #13526.

Denominator: The total number of TAVR discharges that were discharged during the reporting period in which Aortic Regurgitation SEQ #13526 is documented as Trace/Trivial, Mild, Moderate, or Severe.

---

### Mild

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Numerator: The number of TAVR discharges that were discharged during the reporting period in which Paravalvular Regurgitation SEQ #14503 is documented as Mild. Paravalvular Regurgitation SEQ #14503 is a child field of Aortic Regurgitation SEQ #13526.

Denominator: The total number of TAVR discharges that were discharged during the reporting period in which Aortic Regurgitation SEQ #13526 is documented as Trace/Trivial, Mild, Moderate, or Severe.

---

### Moderate

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Numerator: The number of TAVR discharges that were discharged during the reporting period in which Paravalvular Regurgitation SEQ #14503 is documented as Moderate. Paravalvular Regurgitation SEQ #14503 is a child field of Aortic Regurgitation SEQ #13526.

Denominator: The total number of TAVR discharges that were discharged during the reporting period in which Aortic Regurgitation SEQ #13526 is documented as Trace/Trivial, Mild, Moderate, or Severe.

---

### Severe

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Numerator: The number of TAVR discharges that were discharged during the reporting period in which Paravalvular Regurgitation SEQ #14503 is documented as Severe. Paravalvular Regurgitation SEQ #14503 is a child field of Aortic Regurgitation SEQ #13526.

Denominator: The total number of TAVR discharges that were discharged during the reporting period in which Aortic Regurgitation SEQ #13526 is documented as Trace/Trivial, Mild, Moderate, or Severe.

---

### Not Documented

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Numerator: The number of TAVR discharges that were discharged during the reporting period in which Paravalvular Regurgitation SEQ #14503 is documented as Not Documented. Paravalvular Regurgitation SEQ #14503 is a child field of Aortic Regurgitation SEQ #13526.

Denominator: The total number of TAVR discharges that were discharged during the reporting period in which Aortic Regurgitation SEQ #13526 is documented as Trace/Trivial, Mild, Moderate, or Severe.

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## Discharge Status

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### Alive

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

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

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## Discharge Location

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### Home

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

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

Exclusions: Discharge Status Deceased SEQ #10105.

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### Skilled Nursing Facility

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

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

Exclusions: Discharge Status Deceased SEQ #10105.

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### Extended Care/TCU/Rehab

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

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

Exclusions: Discharge Status Deceased SEQ #10105.

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### Other Acute Care Hospital

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

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

Exclusions: Discharge Status Deceased SEQ #10105.

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### Left Against Medical Advice

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Numerator: The number of TAVR discharges that were Discharge Status SEQ #10105 was documented as Alive during the reporting period and the Discharge Location SEQ #10110 is documented as Left Against Medical Advice.

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



Exclusions: Discharge Status Deceased SEQ #10105.

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## Other Discharge Location

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

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

Exclusions: Discharge Status Deceased SEQ #10105.

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## Deceased

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

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

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## Cause of Death

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### Acute MI

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Numerator: The number of TAVR discharges that Discharge Status SEQ #10105 was documented as Deceased during the reporting period and the Cause of Death SEQ #10125 is documented as Acute Myocardial Infarction.

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

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### Sudden Cardiac Death

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Numerator: The number of TAVR discharges that Discharge Status SEQ #10105 was documented as Deceased during the reporting period and the Cause of Death SEQ #10125 is documented as Sudden Cardiac Death.

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

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### Heart Failure

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Numerator: The number of TAVR discharges that Discharge Status SEQ #10105 was documented as Deceased during the reporting period and the Cause of Death SEQ #10125 is documented as Heart Failure.

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

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### Stroke

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Numerator: The number of TAVR discharges that Discharge Status SEQ #10105 was documented as Deceased during the reporting period and the Cause of Death SEQ #10125 is documented as Stroke.

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

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### Cardiovascular Procedure

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Numerator: The number of TAVR discharges that Discharge Status SEQ #10105 was documented as Deceased during the reporting period and the Cause of Death SEQ #10125 is documented as Cardiovascular Procedure.

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

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## Cardiovascular Hemorrhage

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Numerator: The number of TAVR discharges that Discharge Status SEQ #10105 was documented as Deceased during the reporting period and the Cause of Death SEQ #10125 is documented as Cardiovascular Hemorrhage.

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

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## Other Cardiovascular Reason

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

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

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## Pulmonary

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Numerator: The number of TAVR discharges that Discharge Status SEQ #10105 was documented as Deceased during the reporting period and the Cause of Death SEQ #10125 is documented as Pulmonary.

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

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## Renal

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Numerator: The number of TAVR discharges that Discharge Status SEQ #10105 was documented as Deceased during the reporting period and the Cause of Death SEQ #10125 is documented as Renal.

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

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## Gastrointestinal

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Numerator: The number of TAVR discharges that Discharge Status SEQ #10105 was documented as Deceased during the reporting period and the Cause of Death SEQ #10125 is documented as Gastrointestinal.

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

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## Hepatobiliary

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Numerator: The number of TAVR discharges that Discharge Status SEQ #10105 was documented as Deceased during the reporting period and the Cause of Death SEQ #10125 is documented as Hepatobiliary.

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

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## Pancreatic

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Numerator: The number of TAVR discharges that Discharge Status SEQ #10105 was documented as Deceased during the reporting period and the Cause of Death SEQ #10125 is documented as Pancreatic.

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

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## Infection

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Numerator: The number of TAVR discharges that Discharge Status SEQ #10105 was documented as Deceased during the reporting period and the Cause of Death SEQ #10125 is documented as Infection.

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

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## Inflammatory/Immunologic

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

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

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## Hemorrhage

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Numerator: The number of TAVR discharges that Discharge Status SEQ #10105 was documented as Deceased during the reporting period and the Cause of Death SEQ #10125 is documented as Hemorrhage.

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

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## Non-Cardiovascular Procedure or Surgery

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

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

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## Trauma

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Numerator: The number of TAVR discharges that Discharge Status SEQ #10105 was documented as Deceased during the reporting period and the Cause of Death SEQ #10125 is documented as Trauma.

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

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## Suicide

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Numerator: The number of TAVR discharges that Discharge Status SEQ #10105 was documented as Deceased during the reporting period and the Cause of Death SEQ #10125 is documented as Suicide.

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

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## Neurological

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Numerator: The number of TAVR discharges that Discharge Status SEQ #10105 was documented as Deceased during the reporting period and the Cause of Death SEQ #10125 is documented as Neurological.

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

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## Malignancy

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Numerator: The number of TAVR discharges that Discharge Status SEQ #10105 was documented as Deceased during the reporting period and the Cause of Death SEQ #10125 is documented as Malignancy.

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

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## Other Non-Cardiovascular Reason

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

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

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## Cardiac Rehab/Discharge Medical Therapy

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### Cardiac Rehab Referral Prior to DC

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Numerator: The number of TAVR discharges that Discharge Status SEQ #10105 was documented as Alive during the reporting period and Cardiac Rehab Referral Prior to DC SEQ #10116 is documented as Yes.

Denominator: The total number of TAVR 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.

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### Discharge Medical Therapy

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#### Anticoagulant

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Numerator: The number of TAVR 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 TAVR 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 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.

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#### Antiplatelet

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Numerator: The number of TAVR 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 TAVR 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.

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#### Non-Vitamin K Dependent Oral Anticoagulant

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Numerator: The number of TAVR 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 TAVR 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.

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#### P2Y12 Inhibitor

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Numerator: The number of TAVR 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 TAVR 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.

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## SAPT

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

Denominator: The total number of TAVR 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.

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## DAPT

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Numerator: The number of TAVR 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 TAVR 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.

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## SAPT + Anticoagulant

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Numerator: The number of TAVR 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 TAVR 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.

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## Anticoagulant Only

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Numerator: The number of TAVR 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 TAVR 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.

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## **No Anticoagulant, No Antiplatelet**

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Numerator: The number of TAVR 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 TAVR 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.

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## Site-Blinded Graphs

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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.

CV/eGFR  $\geq 3$  (no concomitant proc) - VBR goal

CV/eGFR  $\geq 3$  (all TAVRs)

KCCQ @ baseline

KCCQ @ baseline and 30 days - matched pairs, VBR goal

NYHA documented @ 30 days - VBR goal

Echo post-procedure

CIN

AKI

Transfusion

Permanent Pacemaker

Bleeding/Vasc Comps

Contrast Volume

DAPT

SAPT + Anticoagulant

SAPT

CR Referral prior to DC