



VS Reports Dictionary

This data dictionary contains the definitions of goals and measures for the VS report, VS Dashboard report, VS M&M report, VS Follow-up reports, and the Health Disparities Dashboard.

Many of these measures are the same but only report Open Bypass, EVAR, Open AAA, or Open Thrombectomy procedures. When the definition contains "X procedure" in the definition, the definition is procedure specific. The procedure is either an open bypass, EVAR, open AAA, or open thrombectomy, depending on which measure you are viewing.

A note about follow-up outcomes measures:

- For any follow-up form to be counted as complete and included in the follow-up report, a minimum of current living status and four other fields are marked with a response other than 'Not Documented.'
- The Discharge Status of Death will exclude forms due at 30-days from the numerator and denominator.
- The Discharge Status of Death OR Current Living Status of Dead on the 30-Day follow-up form will exclude forms due at 1-year from the numerator and denominator.
- The Current Living Status of Dead on the 1-Year follow-up form will count that form as complete.

Updated with 2024 Q3 report release.

AAA Repair

The numerator and denominator are the same. The total number of discharges containing an OAAA or EVAR procedure.

ACE Inhibitors (Follow-up report)

Numerator: The number of completed VS follow-up forms that have Yes entered for ACE Inhibitors AND the patient was discharged on an ACE Inhibitor.

Denominator: The number of completed VS follow-up forms that have either Yes or No entered for ACE Inhibitors AND the patient was discharged on an ACE Inhibitor.

Exclusion: A contraindication to ACE Inhibitors.

ACE-I/ARB (All procedures, VS Dashboard)

Numerator: The number of discharges containing an EVAR, Open AAA, PAD Open bypass, Open thrombectomy, CAS, or CEA procedure where the patient is taking an ACE Inhibitor (ACE-I) or an Angiotensin II Receptor Antagonist (ARB) within 30 days of hospital admission.

Denominator: The total number of discharges containing an EVAR, Open AAA, PAD Open bypass, Open thrombectomy, CAS, or CEA procedure.

Exclusions: A contraindication to either an ACE-I or ARB.

ACE-I/ARB (PAD Open Bypass)

Numerator: The number of discharges with a PAD open bypass procedure where the patient is taking an ACE Inhibitor (ACE-I) or an Angiotensin II Receptor Antagonist (ARB) within 30 days of hospital admission.

Denominator: The total number of discharges containing a PAD open bypass procedure.

Exclusions: A contraindication to either an ACE-I or ARB.

ALI (only) (OT)

Numerator: The number of Open Thrombectomy procedures where the Indication of ALI is the only indication marked for that procedure.

Denominator: The total number of Open Thrombectomy procedures.

Note: BMC2 only collects urgent and emergent open thrombectomy procedures.

ASA and Clopidogrel (All procedures)

Numerator: The number of discharges containing an EVAR, Open AAA, PAD Open bypass, Open thrombectomy, CAS, or CEA procedure where the patient is taking both Aspirin and Clopidogrel (Plavix) within 30 days of hospital admission.

Denominator: The number of discharges containing an EVAR, Open AAA, PAD Open bypass, Open thrombectomy, CAS, or CEA procedure.

Exclusion: A contraindication to Aspirin or Clopidogrel (Plavix).

Abdominal/Back Pain

Numerator: The number of X procedures where the patient presented with Abdominal/Back Pain.

Denominator: The total number of X procedures.

Note: there can be multiple indications per procedure.

Acute Limb Ischemia

Numerator: The number of Open Bypass procedures where the patient presented with Acute Limb Ischemia.

Denominator: The total number of Open Bypass procedures.

Note: There can be multiple indications per procedure.

Additional Procedure (Follow-up report)

Numerator: The number of completed VS follow-up forms where an additional procedure was performed that was related to the EVAR.

Denominator: The number of completed VS follow-up forms that have an EVAR procedure in the corresponding discharge.

Reason for Additional Procedure

Numerator: The number of completed VS forms in which the response for "EVAR Additional Procedure" is X.

Denominator: The number of completed VS forms where an additional procedure was performed that was related to the EVAR.

Additional concomitant procedures (VS report)

Numerator: The number of Open Bypass procedures where an additional concomitant procedure was performed.

Denominator: The total number of Open Bypass procedures.

Type of Additional Concomitant Procedure

Numerator: The X type of additional concomitant procedure that was performed during an Open Bypass.

Denominator: The total number of Open Bypass procedures where an additional concomitant procedure was performed.

Air kerma (Gy)

Average and standard deviation calculations of Air Kerma (AK; Cumulative Air Kerma) reported in Gy for all EVAR procedures.

Exclusions:

- EVAR performed for ruptured AAA repair
 - Fenestrated EVAR procedure
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Air kerma Fenestrated Graft (Gy)

Average and standard deviation calculations of Air Kerma (AK; Cumulative Air Kerma) reported in Gy for all EVAR procedures where a fenestrated graft was implanted.

Air kerma Ruptured AAA (Gy)

Average and standard deviation calculations of Air Kerma (AK; Cumulative Air Kerma) reported in Gy for all EVAR procedures performed for ruptured AAA repair.

All Discharges Transfused w/Hgb ≥ 8

Numerator: The number of discharges with an Open AAA, EVAR or, Open Bypass procedure where a post-procedure transfusion of PRBCs was given and the Hemoglobin value prior to the Transfusion is ≥ 8.0 .

Denominator: The number of discharges with an Open AAA, EVAR, or Open Bypass procedure where a post-procedure transfusion of PRBCs was given.

Exclusions:

- Ruptured AAA repair
- Indication of Trauma

All Discharges with HgB ≤ 8.0

Numerator: The number of discharges containing an EVAR, Open AAA, PAD Open bypass, Open thrombectomy, CAS, or CEA procedure that have a post-procedure hemoglobin ≤ 8.0 , as measured by the lowest nadir hemoglobin.

Denominator: The number of discharges containing an EVAR, Open AAA, Open bypass, Open thrombectomy, CAS, or CEA procedure.

Amputation (planned) (Follow-up report)

Numerator: The number of completed VS follow-up forms where the patient had an amputation post-hospitalization.

Denominator: The number of completed VS follow-up forms.

Amputation (planned, Prior to DC)(VS report)

Numerator: The number of discharges with a VS procedure where an Amputation was performed post-procedure and before discharge.

Denominator: The total number of discharges with a VS procedure.

Note: Multiple options may be selected.

Location of Amputation

Numerator: The number of X location of amputation.

Denominator: The total number of discharges with a VS procedure where an amputation was performed post-procedure and before discharge.

Anemia (pre-procedure)

Numerator: The number of discharges with a VS procedure that have a pre-procedure hemoglobin value of <13 for males, <12 for females.

Denominator: The total number of discharges with a VS procedure.

Exclusions:

- Ruptured AAA repair
- Indication of Trauma

Reference:

<http://en.wikipedia.org/wiki/Anemia>

Anticoagulant (OT)

Numerator: The number of discharges containing an open thrombectomy procedure where the patient took an anticoagulant within 30 days of admission.

Denominator: The total number of discharges containing an open thrombectomy procedure.

Medications is this measure:

- Dabigatran (Pradaxa)
- Edoxaban (Savaysa)
- Rivaroxaban (Xarelto)
- Apixaban (Eliquis)
- Warfarin/Coumadin

Exclusion: A contraindication to any of the anticoagulants in the list and the patient was not taking another anticoagulant in the list.

Antiplatelets (ex ASA)(Follow-up report)

Numerator: The number of completed VS follow-up forms that have Yes entered for antiplatelets AND the patient was discharged on an antiplatelet.

Denominator: The number of completed VS follow-up forms that have either Yes or No entered for antiplatelets AND the patient was discharged on an antiplatelet.

Exclusion: A contraindication to antiplatelets. Note: This measure does not include aspirin.

Aspirin (All procedures, VS Dashboard)

Numerator: The number of discharges containing an EVAR, Open AAA, PAD Open bypass, Open thrombectomy, CAS, or CEA procedure where the patient is taking Aspirin within 30 days of hospital admission.

Denominator: The number of discharges containing an EVAR, Open AAA, PAD Open bypass, Open thrombectomy, CAS, or CEA procedure.

Exclusion: A contraindication to aspirin.

Aspirin (Follow-up report)

Numerator: The number of completed VS follow-up forms that have Yes entered for aspirin AND the patient was discharged on aspirin.

Denominator: The number of completed VS follow-up forms that have either Yes or No entered for aspirin AND the patient was discharged on aspirin.

Exclusion: A contraindication to aspirin.

Aspirin (X Procedure)(VS report)

Numerator: The number of discharges containing X procedure where the patient is taking Aspirin within 30 days of hospital admission.

Denominator: The total number of discharges containing X procedure.

Exclusion: A contraindication to aspirin.

Aspirin (adm)(VS report)

Numerator: The number of discharges with an Open AAA, EVAR, or open bypass procedure where the patient is taking ASA within 30 days of hospital admission.

Denominator: The total number or discharges with an Open AAA, EVAR, or open bypass procedure.

Exclusions: A contraindication to ASA.

Aspirin (dis)(VS report)

Numerator: The number of discharges with an Open AAA, EVAR, or open bypass procedure where ASA is ordered or continued at discharge.

Denominator: The total number or discharges with an Open AAA, EVAR, or open bypass procedure.

Exclusions: A contraindication to ASA.

Asymptomatic (X Procedure)

Numerator: The number of X procedures where the patient was Asymptomatic for AAA.

Denominator: The total number of X procedures.

Note: There can be multiple indications per procedure.

Average Age (MI) (mean, stdev)

The average (mean) age of discharges containing an EVAR, Open AAA, PAD Open bypass, Open thrombectomy, CAS, or CEA procedure.

Note: Age as of the admission date.

Average Age (PAD Open Bypass) (mean, stdev)

The average (mean) age of discharges containing a PAD open bypass procedure. This is calculated using the age as of the admission date.

Average Age (mean, stdev)

Calculates the average (mean) age of patients as of the admission date. Compare the birthdate of each discharge with the admission date to compute the age of the patient at admission.

B. Blockers (adm)(VS report)

Numerator: The number of discharges with an Open AAA, EVAR, or open bypass procedure where the patient is taking a beta blocker within 30 days of hospital admission.

Denominator: The total number or discharges with an Open AAA, EVAR, or open bypass procedure.

Exclusion: A contraindication to beta blockers.

B. Blockers (dis)(VS report)

Numerator: The number of discharges with an Open AAA, EVAR, or open bypass procedure where a beta blocker is ordered or continued at discharge.

Denominator: The total number of discharges with an Open AAA, EVAR, or open bypass procedure.

Exclusions: A contraindication to beta blockers.

Beta Blocker (All procedures, VS Dashboard)

Numerator: The number of discharges containing an EVAR, Open AAA, PAD Open bypass, Open thrombectomy, CAS, or CEA procedure where the patient is taking a Beta Blocker within 30 days of hospital admission.

Denominator: The total number of discharges containing an EVAR, Open AAA, PAD Open bypass, Open thrombectomy, CAS, or CEA procedure.

Exclusions: A contraindication to a Beta Blocker.

Beta Blocker (X Procedure)(VS report)

Numerator: The number of discharges containing X procedure where the patient was taking a Beta Blocker within 30 days of hospital admission.

Denominator: The number of discharges containing X procedure.

Exclusion: A contraindication to Beta Blockers.

Beta Blockers (Follow-up report)

Numerator: The number of completed VS follow-up forms that have Yes entered for beta blockers AND the patient was discharged on a beta blocker.

Denominator: The number of completed VS follow-up forms that have either Yes or No entered for beta blockers AND the patient was discharged on a beta blocker.

Exclusion: A contraindication to beta blockers.

Bleeding (≥ 4 units PRBCs) (OT)

Numerator: The number of discharges containing an open thrombectomy procedure where a transfusion of 4 or more units of PRBCs was given post-procedure for any procedure within that discharge (within 30 days of the procedure end date).

Denominator: The total number of discharges containing an open thrombectomy procedure.

Note: BMC2 collects urgent and emergent open thrombectomy procedures only.

Bleeding (≥ 4 units PRBCs) (elective procedure)

Numerator: The number of discharges containing an Elective X procedure where a transfusion of 4 or more units of PRBCs was given within 30 days of the procedure end date. (For any procedure within that discharge).

Denominator: The total number of discharges containing an Elective X procedure.

Note: The first vascular surgery procedure in a discharge with multiple procedures of the same type will be used to determine procedure status (elective, urgent, emergent).

Bleeding (≥ 4 units PRBCs) (urgent/emergent procedure)

Numerator: The number of discharges containing an Urgent or Emergent X procedure where a transfusion of 4 or more units of PRBCs was given post-procedure for any procedure within that discharge (within 30 days of the procedure end date).

Denominator: The total number of discharges containing an Urgent or Emergent X procedure.

Note: The first vascular surgery procedure in a discharge with multiple procedures of the same type will be used to determine procedure status (elective, urgent, emergent).

Bowel Ischemia (Prior to DC)

Numerator: The number of discharges with a VS procedure where Bowel Ischemia developed post-procedure and before discharge.

Denominator: The total number of discharges with a VS procedure.

CEA Opioid naïve patients prescribed ≤ 4 opioid pills at discharge

Numerator: Number of opioid naïve CEA discharges with an opioid prescription at discharge of ≤ 4 pills. CEA discharges where Not Documented is marked for Quantity prescribed are excluded from the numerator.

Denominator: Number of opioid naïve CEA discharges.

Exclusions from the numerator and denominator.

- CEA performed concurrently with CABG.
- Discharge status of death.

Please note: Opioid naïve is defined as no opioids taken by the patient >30 days before admission to the hospital.

Goal $\geq 70\%$.

CEA Opioid naïve patients prescribed ≤ 4 opioid pills at discharge Goal Graph

For each hospital, calculate the percentage of discharges meeting the CEA Opioid at discharge criteria. This is the same as the definition for CEA Opioid naïve patients prescribed ≤ 4 opioid pills at discharge on the Vascular Surgery Key Indicators of Performance page. Goal $\geq 70\%$.

CIN

CIN is defined as a > 0.5 mg/dL increase of post procedure creatinine from pre-procedure creatinine.

Numerator: The number of discharges with an EVAR procedure where contrast was used during the procedure that had an increase of post procedure creatinine of >0.5 mg/dL.

Denominator: The number of discharges with an EVAR procedure.

Exclusions:

- The patient is on dialysis for renal failure pre procedure.
- Renal transplant.
- Death in OR.
- Ruptured AAA.
- No value for pre-procedure creatinine entered into the database.
- No value for peak post procedure creatinine, discharge creatinine, or post-discharge creatinine entered into the database.

CIN Excluded

EVAR procedures where the patient has a history of renal failure requiring dialysis or renal transplant (including failed transplants) are excluded from the CIN measure.

Hx Renal Failure req Dialysis

Numerator: The number of discharges with an EVAR procedure where the patient has a History of Renal Failure Currently Requiring Dialysis.

Denominator: The total number of EVAR procedure procedures.

Renal Transplant

Numerator: The number of discharges with an EVAR procedure where the patient has a history of a renal transplant. A history of failed renal transplants is included in this measure.

Denominator: The total number of EVAR procedures.

CIN Potential

Numerator: The number of discharges with an EVAR procedure that meet all the following criteria:

- A pre-procedure creatinine value is entered into the database.
- A post-procedure creatinine (Peak, Discharge, or Post Discharge) value is entered into the database.
- The patient does not have a history of renal transplant or kidney failure.
- The patient did not expire during the EVAR.
- The EVAR was not performed for ruptured AAA repair.
- Contrast was used during the EVAR procedure.

Denominator: The total number of discharges with an EVAR procedure.

Missing Creatinine (pre)

Numerator: The number of discharges with an EVAR procedure where the pre procedure creatinine value is entered as Not drawn. EVAR procedures that have a Ruptured AAA are excluded from the numerator.

Denominator: The total number of discharges with a VS procedure.

Missing Creatinine (post)

Numerator: The number of discharges with an EVAR procedure where the post procedure peak creatinine, discharge creatinine, and post-discharge creatinine values for that EVAR procedure are all entered as "Not drawn". EVAR procedures that have a Ruptured AAA are excluded from the numerator.

Denominator: The total number of discharges containing an EVAR procedure.

CTA (abnormal / performed)

Numerator: The number of X procedure that had an abnormal Computerized Tomographic Angiography (CTA) pre procedure.

Denominator: The total number of X procedure where a CTA was performed pre procedure.

Note: Pre procedure = the imaging study was performed within 6 months prior to the procedure.

Cardiac Stress Test

Numerator: The number of X procedure that had cardiac stress test pre procedure.

Denominator: The total number of X procedure.

Note: Pre procedure = the test was performed within 6 months prior to the procedure.

Abnormal

Numerator: The number of EVAR procedures that had an abnormal Cardiac Stress Test pre procedure.

Denominator: The total number of EVAR procedures where a Cardiac Stress Test was performed pre procedure.

Note: Pre procedure = the test was performed within 6 months prior to the procedure.

Cardiac arrest (in OR)

Numerator: The number of VS procedures where a cardiac arrest occurred in the OR.

Denominator: The total number of VS procedures.

Note: For discharges with multiple procedures, cardiac arrest will only be counted once.

Carotid Composite 30-Day Mortality/MI/TIA-Stroke

Numerator: The number of carotid procedures that have Yes entered for death, myocardial injury, or TIA-Stroke is entered on the 30-day follow-up form.

Denominator: The total number of carotid procedures Yes or No entered for death, myocardial injury, or TIA-Stroke on the 30-day follow-up form.

Carotid Endarterectomy (CEA)

Numerator: The number of CEA procedures. Denominator: The total number of CEA and CAS procedures.

Carotid Endarterectomy and Stenting

The numerator and denominator are the same. The total number of discharges containing a CEA or CAS.

Carotid Stent (CAS)

Numerator: The number of CAS procedures.

Denominator: The total number of CEA and CAS procedures.

Claudication

Numerator: The number of Open Bypass procedures where the patient presented with Claudication.

Denominator: The total number of Open bypass procedures.

Note: There can be multiple indications per procedure.

Claudication only (PAD Open Bypass)

Numerator: The number of PAD open bypass procedures that were performed for the indication of claudication only.

Denominator: The total number of PAD open bypass procedures.

Clopidogrel (Plavix) (All procedures)

Numerator: The number of discharges containing an EVAR, Open AAA, PAD Open bypass, Open thrombectomy, CAS, or CEA procedure where the patient is taking Clopidogrel (Plavix) within 30 days of hospital admission.

Denominator: The number of discharges containing an EVAR, Open AAA, PAD Open bypass, Open thrombectomy, CAS, or CEA procedure.

Exclusion: A contraindication to Clopidogrel (Plavix).

Clopidogrel (Plavix) (OT)

Numerator: The number of discharges containing an open thrombectomy procedure where the patient is taking clopidogrel (Plavix) within 30 days of hospital admission.

Denominator: The number of discharges containing an open thrombectomy procedure.

Exclusion: A contraindication to clopidogrel (Plavix).

Contrast cineangiography

Numerator: The number of Open Bypass procedures that had an abnormal contrast cineangiography pre procedure.

Denominator: The total number of Open Bypass procedures with a documented pre procedure contrast cineangiography.

Note: Pre procedure = the imaging study was performed within 6 months prior to the procedure.

Conversion from Endovascular Repair

Numerator: The number of Open AAA procedures where a Conversion from Endovascular Repair occurred.

Denominator: The total number of Open AAA procedures.

Conversion from Endovascular Repair Timeframe

Numerator: The number of X timeframe that the conversion from endovascular repair took place.

Denominator: the total number of Open AAA procedures that had a Conversion from Endovascular Repair.

Conversion to Open (VS report)

Numerator: The number of EVAR procedures where a Conversion to Open occurred.

Denominator: The total number of EVAR procedures.

Reason for Conversion to Open

Numerator: The number of X reason for Conversion to Open.

Denominator: The total number of EVAR procedures where a Conversion to Open occurred.

Coronary Artery Disease (CAD)

Numerator: The number of discharges with a VS procedure where the patient has a history of CAD.

Denominator: The total number of discharges with a VS procedure.

Coumadin (Follow-up report)

Numerator: The number of completed VS follow-up forms that have Yes entered for Anticoagulant AND the patient was discharged on Coumadin.

Denominator: The number of completed VS follow-up forms that have either Yes or No entered for Anticoagulant AND the patient was discharged on Coumadin.

Exclusion: A contraindication to Coumadin.

Creatinine (pre) >= 1.5

Numerator: The number of discharges with an EVAR procedure where the pre procedure creatinine value for the first EVAR procedure is >= 1.5.

Denominator: The total number of discharges with an EVAR procedure where a pre procedure creatinine value was entered for the first EVAR procedure.

Exclusions:

- Renal Failure Currently Requiring Dialysis
- Ruptured AAA

Current Living Status (Dead)

Numerator: The number of completed VS follow-up forms where Dead is entered for Current Living Status. Denominator: The number of completed VS follow-up forms.

Current Living Status

Numerator: The number of completed VS follow-up forms where X is entered for Current Living Status.

Denominator: The number of completed VS follow-up forms.

Current Smoker (VS and Carotid)

Numerator: The number of discharges with an elective VS or carotid procedure where the patient smoked cigarettes, cigars, pipe, or chewed tobacco within one month prior to arrival to the hospital.

Denominator: The total number of discharges with an elective VS or carotid procedure.

Exclusion from numerator and denominator: Death during procedure, death post-procedure, or death at discharge.

Current Smoker

Numerator: The number of discharges with an elective VS procedure where the patient smoked cigarettes, cigars, pipe, or chewed tobacco within one month prior to arrival to the hospital.

Denominator: The total number of discharges with an elective VS procedure.

Death (OT)(VS Dashboard)

Numerator: The number of discharges containing an open thrombectomy procedure where the outcome of death occurred within 30 days of the procedure end date.

Denominator: The total number of discharges containing an open thrombectomy procedure.

Note: BMC2 collects urgent and emergent open thrombectomy procedures only.

Death (Prior to DC)(VS report)

Numerator: The number of discharges containing a VS procedure where a patient died post-procedure and prior to discharge.

Denominator: The number discharges that containing a VS procedure.

Note: Deaths are counted once for discharges that have multiple procedures.

Death (Procedure end to 30 days, elective procedure)

Numerator: The number of VS discharges containing an Elective X procedure where a death occurred within 30 days of the procedure.

Denominator: The total number of discharges containing an Elective X procedure.

Note: The first vascular surgery procedure in a discharge with multiple procedures of the same type will be used to determine procedure status (elective, urgent, emergent).

Death (Procedure end to 30 days, urgent/emergent procedure)

Numerator: The number of discharges containing an urgent or emergent X procedure where the outcome of death occurred within 30 days of the procedure.

Denominator: The total number of discharges containing an urgent or emergent X procedure.

Note: The first vascular surgery procedure in a discharge with multiple procedures of the same type will be used to determine procedure status (elective, urgent, emergent).

Death (VS and M&M reports)

Numerator: The number of discharges with a VS procedure where death is the discharge status.

Denominator: The total number of discharges with a VS procedure.

Death in OR

Numerator: The number of VS procedures where a death occurred in the OR.

Denominator: The total number of VS procedures.

Note: For discharges with multiple procedures, death will only be counted once.

Diabetes (MI)(VS Dashboard)

Numerator: The number of discharges containing an EVAR, Open AAA, PAD Open bypass, Open thrombectomy, CAS, or CEA procedure where the patient has a history of Diabetes.

Denominator: The number of discharges containing an EVAR, Open AAA, Open bypass, Open thrombectomy, CAS, or CEA procedure.

Diabetes (PAD Open Bypass)(VS Dashboard)

Numerator: The number of discharges containing a PAD Open Bypass procedure where the patient has a history of any type of diabetes.

Denominator: The total number of discharges containing a PAD Open Bypass procedure.

Diabetes Mellitus (VS report)

Numerator: The number of discharges with a VS procedure where the patient has a history of any type of diabetes.

Denominator: The total number of discharges with a VS procedure.

Discharge Status

Numerator: The number of discharges with a VS procedure with X Discharge Status.

Denominator: The total number of discharges with a VS procedure.

Discharges

The total number of discharges with a VS procedure. The numerator and denominator are the same.

Discharges w/ EVAR

Numerator: The number of discharges containing an EVAR procedure.

Denominator is the total number of discharges containing an Open AAA, EVAR, or Open Bypass procedure.

Exclusion: Procedures with a Ruptured AAA.

Discharges with Myocardial Infarction with Hgb ≤ 8.0

Numerator: The number of discharges containing an EVAR, Open AAA, Open bypass, Open thrombectomy, CAS, or CEA procedure that have a post-procedure hemoglobin ≤ 8.0 , as measured by the lowest nadir hemoglobin and an outcome of myocardial infarction (MI) occurred within 30 days of the procedure end date.

Denominator: The total number of discharges containing an EVAR, Open AAA, Open bypass, Open thrombectomy, CAS, or CEA procedure.

Note: MI includes Type 2 Myocardial Infarction, Type 1 NSTEMI or STEMI.

EKG (abnormal / performed)

Numerator: The number of X procedure that had an abnormal EKG pre procedure.

Denominator: The total number of X procedure where an EKG was performed pre procedure.

Note: Pre procedure = the test was performed within 6 months prior to the procedure.

EVAR (transfusion)(VS Dashboard)

Numerator: The number of discharges containing a EVAR procedure in which PRBCs were transfused post-operatively within 30 days of the procedure end date.

Denominator: The total number of discharges containing an EVAR procedure.

Note: Multiple transfusion given during a discharge are counted only once.

Exclusions:

- Ruptured AAA repair
- Indication of Trauma

EVAR 1-Year Surveillance Imaging Performed

Numerator: The number of completed VS 1-year follow-up form with an EVAR procedure in the corresponding discharge where a CT or US was performed within 6 months - 14 months of the date of discharge.

Denominator: The number of completed VS follow-up forms that have an EVAR procedure in the corresponding discharge.

Exclusions from the numerator and denominator:

- Death prior to 1-year follow-up.
- Discharge status of Hospice / Comfort care

EVAR Current AAA Diameter (mean, stdev)

The mean (average) and standard deviation of the Current AAA Diameter for completed VS follow-up forms with an EVAR procedures in the corresponding discharge.

EVAR Current Endoleak

Numerator: The number of completed VS forms where the patient has an endoleak at the time of follow-up.

Denominator: The number of completed VS follow-up forms that have an EVAR procedure in the corresponding discharge.

Type 1

Numerator: The number of completed VS forms that have a Type 1 Endoleak. Denominator: The number of completed VS forms where the patient has an endoleak at the time of follow-up.

Note: Type 1 Endoleak = Attachment site, proximal or distal attachment site leak.

Type 2

Numerator: The number of completed VS forms that have a Type 2 Endoleak. Denominator: The number of completed VS forms where the patient has an endoleak at the time of follow-up.

Note: Type 2 Endoleak = Branch, retrograde filling of sac via lumbar, IMA or accessory renals.

Type 3

Numerator: The number of completed VS forms that have a Type 3 Endoleak. Denominator: The number of completed VS forms where the patient has an endoleak at the time of follow-up.

Note: Type 3 Endoleak = Mid, filling of sac via leak at component overlap sites or fabric tear.

Indeterminate

Numerator: The number of completed VS forms where the endoleak type is Indeterminate. Denominator: The number of completed VS forms where the patient has an endoleak at the time of follow-up.

EVAR Imaging Performed (P4P)

Numerator: The number of completed VS 1-year follow-up form with an EVAR procedure in the corresponding discharge where a CT or US was performed within 6 months - 14 months of the date of discharge.

Denominator: The number of completed VS follow-up forms that have an EVAR procedure in the corresponding discharge.

Exclusions from the numerator and denominator:

- Death prior to 1-year follow-up.
- Discharge status of Hospice / Comfort care

Goal $\geq 80\%$

EVAR Imaging Performed (P4P) Goal Graph

For each hospital, calculate the percentage of discharges meeting the EVAR Imaging Performed criteria. This is the same as the definition for EVAR Imaging Performed (P4P) on the Vascular Surgery 1-Year Follow-up report. Goal $\geq 80\%$.

EVAR Opioid naïve patients prescribed ≤ 4 opioid pills at discharge

Numerator: Number of opioid naïve EVAR discharges with an opioid prescription at discharge of ≤ 4 pills.

Denominator: Number of opioid naïve EVAR discharges.

Exclusions from the numerator:

- EVAR discharges where Not Documented is marked for Quantity prescribed

Exclusions from the numerator and denominator:

- EVARs performed concurrently with another procedure
- Cutdowns
- A discharge status of death.

Please note: Opioid naïve is defined as no opioids taken by the patient >30 days before admission to the hospital.

Goal $\geq 70\%$.

EVAR Opioid naïve patients prescribed ≤ 4 opioid pills at discharge Goal Graph

For each hospital, calculate the percentage of discharges meeting the EVAR Opioid at discharge criteria. This is the same as the definition for EVAR Opioid naïve patients prescribed ≤ 4 opioid pills at discharge (P4P) on the Vascular Surgery Key Indicators of Performance page. Goal $\geq 70\%$.

EVAR Opioid naïve patients prescribed >4 pills at discharge

Numerator: The number of opioid-naïve EVAR discharges prescribed >4 opioid pills at discharge. EVAR discharges where Not Documented is entered for Opioid Quantity Prescribed are **included** in the numerator.

Denominator: The total number of opioid-naïve EVAR discharges.

Exclusion: EVAR discharges that are performed concurrently with another procedure.

Please note: Opioid naïve is defined as No entered for Pre-operative opioid use.

Elective EVAR Major Morbidities

Numerator: The number of Elective EVAR procedures that have Yes entered for the following outcomes on the 30-day follow-up form.

- Bleed
- Death
- MI
- Pneumonia
- Readmission
- Renal Failure

Denominator: The total number of Elective EVAR procedures that have Yes or No entered for these outcomes on the 30-day follow-up form.

Elective EVAR not discharged by post-op day 2

Numerator: The number of discharges with an elective EVAR procedure that has a post procedure LOS >3.

- Intra-operative and post-operative outcomes are excluded from the numerator only.

Denominator: The total number of discharges with an elective EVAR procedure.

Goal: <10%

Exclusions from the numerator and denominator:

- EVAR procedures that are performed concurrently with another VS or carotid procedure within the same discharge.
- EVAR procedures performed with a Fenestrated Graft.

Elective EVAR not discharged by post-op day 2 Goal Graph

For each hospital, compute **the** percentage of elective EVARs meeting the P4P criteria for LOS. This is the same as the definition for Elective EVAR not discharged by post-op day 2 on the Vascular Surgery Key Indicators of Performance page. Goal < 10%.

Elective Open AAA Major Morbidities

Numerator: The number of Elective Open AAA procedures that have Yes entered for the following outcomes on the 30-day follow-up form.

- Bleed
- Death
- MI
- Pneumonia
- Readmission
- Renal Failure

Denominator: The total number of Elective Open AAA procedures that have Yes or No entered for these outcomes on the 30-day follow-up form.

Elective Procedure (VS Dashboard)

Numerator: The number of discharges containing an elective X procedure.

Denominator: The total number of discharges containing X procedure.

Note: The first vascular surgery procedure in a discharge with multiple procedures of the same type will be used to determine procedure status (elective, urgent, emergent).

Elective VS Discharges (OAAA, EVAR, OBP)

Numerator: The number of discharges in which the first procedure is an Elective Open AAA, EVAR, or Open Bypass procedure.

Denominator: The number of discharges in which the first procedure is an Elective Open AAA, EVAR, or Open Bypass procedure.

Elective asymptomatic CEA not discharged home by post-op day 2

Numerator: The number of discharges with an elective CEA procedure that are asymptomatic and have a post procedure LOS >3. LOS is calculated as the discharge date minus the date of procedure +1.

Denominator: The number of discharges with an elective CEA procedure that are asymptomatic.

Exclusions:

- CEAs performed concurrently with CABG
- Indication of Urgent Cardiac Surgery within 30 days
- An intra-operative or post-operative complication
- CEAs performed with any other VS or carotid procedure within the same discharge

Elective asymptomatic CEA not discharged home by post-op day 2 Goal Graph

For each hospital, calculate the percentage of discharges meeting the CEA LOS criteria. This is the same as the definition for [Elective asymptomatic CEA not discharged home by post-op day 2 \(P4P\)](#) on the Outcomes (CEA) page. Goal <8.0%.

Endoleak at Completion

Numerator: The number of EVAR procedures where there was an endoleak at completion.

Denominator: The total number of EVAR procedures.

Endoleak Type

Numerator: The number of X Endoleak Type.

Denominator: The total number of EVAR procedures where there was an Endoleak at Completion.

Ever Smoked (VS and Carotid)

Numerator: The number of discharges with an elective VS or carotid procedure where the patient smoked any time in their life.

Denominator: The total number of discharges with an elective VS or carotid procedure.

Exclusion from numerator and denominator: Death during procedure, death post-procedure, or death at discharge.

Ever Smoked

Numerator: The number of discharges with an elective VS procedure where the patient smoked at any time during their life.

Denominator: The total number of discharges with an elective VS procedure.

Exercise Counseling at DC (PAD)

Numerator: The number of discharges containing a lower extremity open bypass procedure for claudication where the patient received exercise counseling or education at discharge.

Denominator: The number of discharges containing a lower extremity open bypass procedure for claudication.

Note: There can be multiple indications per procedure.

Exclusions:

- Death in OR or post procedure
 - Discharges with Wheelchair or Bedridden entered for Ambulation pre procedure.
-

Female Gender

Numerator: The number of discharges with a VS procedure where the patient is female.

Denominator: The total number of discharges with a VS procedure.

Fluoro Time (Fenestrated Graft)

Average and standard deviation calculations of fluoroscopy time reported in minutes for all EVAR procedures where a fenestrated graft was implanted.

Fluoro Time (Ruptured AAA)

Average and standard deviation calculations of fluoroscopy time reported in minutes for all EVAR procedures performed for ruptured AAA repair.

Fluoro Time

Average and standard deviation calculations of fluoroscopy time reported in minutes for all EVAR procedures.

Exclusions:

- EVAR performed for Ruptured AAA repair
- Fenestrated EVAR procedure

Forms Completed

Numerator: The number of VS follow-up forms that were completed, as of the date the report was run, with a sufficient number of responses to be deemed complete.

Denominator: The number of VS follow-up Forms Due.

Note:

- A completed form is defined as one in which at least the Current Living Status and four other fields are marked with a response other than 'Not Documented'.
- A discharge status of Death or Current Living Status of Dead will exclude the discharge from the numerator and denominator.

Goal is $\geq 80\%$

Forms Due

The number of follow-up forms due, as of the date the report is generated.

At 30 days: The numerator is the total number of VS follow-up forms due in the given time period. The denominator is the total number of VS discharges in the given time period. A discharge status of Death excludes the form from the numerator and denominator.

At 1 year: The numerator is the total number of VS follow-up forms due in the given time period. The denominator is the total number of VS discharges in the given time period. A discharge status of Death or Current Living Status of Dead on the 30-day follow-up form excludes the form from the numerator and denominator.

See the Forms Completed definition below for the definition of a completed form.

Glucose (> 180)

Numerator: The number of PAD open bypass procedures with an intraoperative Glucose (peak) value >180.

Denominator: The total number of PAD open bypass procedures.

Graft Body Diameter (EVAR)(mean, stdev)

The average (mean) and standard deviation of Graft Body Diameter for EVAR procedures.

Exclusion: EVAR procedures where a value for Graft Body Diameter is not entered.

Graft Body Diameter (OAAA) (mean, stdev)

The average (mean) and standard deviation of Graft Body Diameter for Open AAA procedures.

Exclusion: Open AAA procedures where a value for Graft Body Diameter is not entered.

Graft Configuration (EVAR)

Numerator: The number of EVAR procedures with X Graft Configuration.

Denominator: The total number of EVAR procedures.

Graft Failure (Urgent/Emergent PAD Open Bypass)

Numerator: The number of discharges containing an urgent or emergent PAD open bypass procedure where a clot developed in the stent or graft within 30 days of the procedure end date. (This includes discharges where No is entered for Open Bypass Patent on the 30 day follow-up form).

Denominator: The total number of discharges containing an urgent or emergent PAD open bypass procedure.

Note: The first vascular surgery procedure in a discharge with multiple procedures of the same type will be used to determine procedure status (elective, urgent, emergent).

Graft Type (EVAR)

Numerator: The number of EVAR procedures that had X graft type implanted.

Denominator: The total number of EVAR procedures.

Graft Not Utilized (type)

Numerator: The number of EVAR procedures where a graft was not implanted.

Denominator: The total number of EVAR procedures.

Graft Type (OAAA)

Numerator: The number of Open AAA procedures that had X graft type implanted.

Denominator: The total number of Open AAA procedures where a graft was implanted.

Graft Type (origin from femoral)

Vein graft

Numerator: The number of open bypass procedures where a vein graft was implanted.

Denominator: The number of open bypass procedures.

Note: Only procedures with a graft origin in the common femoral or superficial femoral artery are included.

Prosthetic

Numerator: The number of open bypass procedures where a prosthetic graft was implanted.

Denominator: The number of open bypass procedures.

Note: Only procedures with a graft origin in the common femoral or superficial femoral artery are included.

Hypertension

Numerator: The number of discharges with a VS procedure where the patient has a history of hypertension.

Denominator: The total number of discharges with a VS procedure.

Infection / Sepsis

Numerator: The number of discharges with a VS procedure where an infection/sepsis developed post-procedure and before discharge.

Denominator: The number of discharges with a VS procedure.

Note: Multiple Infection/Sepsis are only counted once per discharge.

Infection/Sepsis (Prior to DC)

Numerator: The number of discharges with a VS procedure where an infection/sepsis developed post-procedure and before to discharge.

Denominator: The number of discharges with a VS procedure.

Note: Multiple Infection/Sepsis are only counted once per discharge.

Source of Infection/Sepsis

Numerator: The number of X source of Infection/Sepsis.

Denominator: The number of discharges with a VS procedure where an infection developed post-procedure and before discharge.

Inflow

Aorto-Femoral

Numerator: The number of Open Bypass procedures that have a Graft Origin in the Aorta and a Graft Insertion or Graft Insertion #2 in a Femoral artery.

Denominator: The total number of Open Bypass procedures where a graft was implanted.

Femoral-femoral

Numerator: The number of Open Bypass procedures that have a Graft Origin in a Femoral artery and a Graft Insertion or Graft Insertion #2 also in a Femoral artery.

Denominator: The total number of Open Bypass procedures where a graft was implanted.

Axillary-femoral

Numerator: The number of Open Bypass procedures that have a Graft Origin in an Axillary artery and a Graft Insertion or Graft Insertion #2 in a Femoral artery.

Denominator: The total number of Open Bypass procedures where a graft was implanted.

Other Inflow

Numerator: The number of Open Bypass procedures that have a graft implanted in the axillary, aorta, or iliac arteries and the distal end of the graft does not extend beyond the profunda femoris.

Denominator: The total number of Open Bypass procedures where a graft was implanted.

Intraoperative Graft Revision

Numerator: The number of Open Bypass procedures with a documented Intraoperative Graft Revision.

Denominator: The total number of Open Bypass procedures.

Kerma Area Product (Gy.cm2)

Average and standard deviation calculations of Kerma Area Product reported in Gy.cm2 for all EVAR procedures.

Exclusions:

- EVAR performed for ruptured AAA repair
 - Fenestrated EVAR procedure
-

Kerma Area Product Fenestrated Graft (Gy.cm2)

Average and standard deviation calculations of Kerma Area Product reported in Gy.cm2 for all EVAR procedures where a fenestrated graft was implanted.

Kerma Area Product Ruptured AAA (Gy.cm2)

Average and standard deviation calculations of Kerma Area Product reported in Gy.cm2 for all EVAR procedures performed for ruptured AAA repair.

Length of Stay (mean, stdev)

The average (mean) and standard deviation of length of stay for X procedure. Length of stay is calculated as date of discharge minus the date of admission, plus one day.

Length of Stay Post-op (mean, stdev)

The average (mean) and standard deviation of the length of stay post-op for X procedure. The length of stay post-op is calculated as the date of discharge minus the procedure end date of the first procedure within a discharge, plus one day.

MI (Follow-up report)

Numerator: The number of completed VS follow-up forms where the patient was readmitted to the hospital for an MI post-procedure.

Denominator: The number of completed VS follow-up forms.

Note: MI includes Type 2 Myocardial Infarction, Type 1 NSTEMI or STEMI.

MRI/MRA (abnormal / performed)

Numerator: The number of X procedure that had an abnormal MRI/MRA pre procedure.

Denominator: The total number of X procedure where a MRI/MRA was performed pre procedure.

Note: Pre procedure = the imaging study was performed within 6 months prior to the procedure.

Major Amputation (OT)

Numerator: The number of discharges containing an open thrombectomy procedure where an amputation was performed post-procedure on the same limb as the open thrombectomy within 30 days of the procedure end date.

Denominator: The total number of discharges containing an open thrombectomy procedure.

Note:

- Amputation is defined as amputation points of foot amputation, AKA, BKA, or hip disarticulation.
- BMC2 collects urgent and emergent open thrombectomy procedures only.

Major Amputation (Planned) (X PAD Open Bypass)

Numerator: The number of discharges containing an X PAD Open Bypass procedure where an amputation was performed post-procedure on the same side as the open bypass.

Denominator: The total number of discharges containing an urgent or emergent PAD Open Bypass procedure.

Note:

- Amputation is defined as amputation points of foot amputation, AKA, BKA, or hip disarticulation.
- The first vascular surgery procedure in a discharge with multiple procedures of the same type will be used to determine procedure status (elective, urgent, emergent).

Male Gender

Numerator: The number of discharges with a VS procedure where the patient is male.

Denominator: The total number of discharges with a VS procedure.

Maximum AAA Diameter (mean, stdev)

The average (mean) and standard deviation of Maximum AAA Diameter for X procedure.

Exclusions:

- Indication of iliac aneurysm repair only.
 - Maximum AAA Diameter value is not entered.
-

Myocardial Infarction (OT)

Numerator: The number of discharges containing an open thrombectomy procedure where a myocardial infarction (MI) occurred within 30 days of the procedure end date.

Denominator: The total number of discharges containing an open thrombectomy procedure.

Note:

- BMC2 collects urgent and emergent open thrombectomy procedures only.
- MI includes Type 2 Myocardial Infarction, Type 1 NSTEMI or STEMI.

Myocardial Infarction (Prior to Discharge)

Numerator: The number of discharges with a VS procedure where a Myocardial Infarction (MI) occurred post-procedure and before discharge.

Denominator: The number of discharges with a VS procedure.

Note: MI includes Type 2 Myocardial Infarction, Type 1 NSTEMI or STEMI.

Myocardial Infarction (elective procedure)

Numerator: The number of discharges containing an Elective X procedure where a myocardial infarction (MI) occurred within 30 days of the procedure end date.

Denominator: The total number of discharges containing an Elective X procedure.

Note:

- MI includes Type 2 Myocardial Infarction, Type 1 NSTEMI or STEMI.
- The first vascular surgery procedure in a discharge with multiple procedures of the same type will be used to determine procedure status (elective, urgent, emergent).

Myocardial Infarction (in OR)

Numerator: The number of VS procedures where an MI occurred in the OR.

Denominator: The total number of VS procedures.

Myocardial Infarction (urgent/emergent procedure)

Numerator: The number of discharges containing an Urgent or Emergent X procedure where a myocardial infarction (MI) occurred within 30 days of the procedure end date.

Denominator: The total number of discharges containing an Urgent OR Emergent X procedure.

Note:

- MI includes Type 2 Myocardial Infarction, Type 1 NSTEMI or STEMI.
- The first vascular surgery procedure in a discharge with multiple procedures of the same type will be used to determine procedure status (elective, urgent, emergent).

Myocardial Infarction Rate (Elective)

Numerator: The number of discharges containing an Elective EVAR, Open AAA, PAD Open bypass, CAS, or CEA procedure where a myocardial infarction (MI) occurred within 30 days of the procedure end date.

Denominator: The total number of discharges containing an Elective EVAR, Open AAA, PAD Open bypass, CAS, or CEA procedure.

Note:

- MI includes Type 2 Myocardial Infarction, Type 1 NSTEMI or STEMI.
- The first procedure in a discharge determines procedure status (elective, urgent, emergent).

Myocardial Infarction Rate (Overall)

Numerator: The number of discharges containing an EVAR, Open AAA, PAD Open bypass, Open thrombectomy, CAS, or CEA procedure where a myocardial infarction (MI) occurred within 30 days of the procedure end date.

Denominator: The total number of discharges containing an EVAR, Open AAA, PAD Open bypass, Open thrombectomy, CAS, or CEA procedure.

Note: MI includes Type 2 Myocardial Infarction, Type 1 NSTEMI or STEMI.

Myocardial Infarction Rate (Urgent/Emergent)

Numerator: The number of discharges containing an Urgent or Emergent EVAR, Open AAA, PAD Open bypass, Open thrombectomy, CAS, or CEA procedure where a myocardial infarction (MI) occurred within 30 days of the procedure end date.

Denominator: The total number of discharges containing an Urgent or Emergent EVAR, Open AAA, PAD Open bypass, Open thrombectomy, CAS, or CEA procedure.

Note:

- MI includes Type 2 Myocardial Infarction, Type 1 NSTEMI or STEMI.
- The first procedure in a discharge determines procedure status (elective, urgent, emergent)

Myocardial Infarction Rate by Discharge Type

PAD/Open Bypass

Numerator: The number of discharges containing a PAD Open bypass procedure where a myocardial infarction (MI) occurred within 30 days of the procedure end date.

Denominator: The total number of discharges containing a PAD Open bypass procedure.

Note: MI includes Type 2 Myocardial Infarction, Type 1 NSTEMI or STEMI.

AAA

Numerator: The number of discharges containing an EVAR or Open AAA procedure where a myocardial infarction (MI) occurred within 30 days of the procedure end date.

Denominator: The total number of discharges containing an EVAR or Open AAA procedure.

Note: MI includes Type 2 Myocardial Infarction, Type 1 NSTEMI or STEMI.

CVOD

Numerator: The number of discharges containing a CAS or CEA procedure where a myocardial infarction (MI) occurred within 30 days of the procedure end date.

Denominator: The total number of discharges containing a CAS or CEA procedure.

Note: MI includes Type 2 Myocardial Infarction, Type 1 NSTEMI or STEMI.

Nephropathy Requiring Dialysis

Numerator: The number of discharges with a VS procedure where patient had acute or worsening renal failure, post procedure, which led to dialysis during the hospitalization.

Denominator: The total number of discharges with a VS or carotid procedure.

New Opioid @ Discharge (VS)

Numerator: The number of discharges with X procedure where the patient was not taking an opioid at admission, but an opioid was prescribed at discharge.

Denominator: The total number of X procedure.

This section is broken out by specific procedure type:

- EVAR
- Open AAA
- Bypass
- Open Thrombectomy

New Opioid Prescriptions ≤ 4 Pills - EVAR

Numerator: Number of opioid naïve EVAR discharges with an opioid prescription at discharge of ≤ 4 pills.

Denominator: Number of opioid naïve EVAR discharges.

Exclusions from the numerator:

- EVAR discharges where Not Documented is marked for Quantity prescribed

Exclusions from the numerator and denominator:

- EVARs performed concurrently with another procedure
- Cutdowns
- A discharge status of death.

Please note: Opioid naïve is defined as no opioids taken by the patient >30 days before admission to the hospital.

New Opioid Prescriptions ≤ 4 Pills - Endarterectomy

Numerator: Number of opioid naïve CEA discharges with an opioid prescription at discharge of ≤ 4 pills. CEA discharges where Not Documented is marked for Quantity prescribed are excluded from the numerator.

Denominator: Number of opioid naïve CEA discharges.

Exclusions from the numerator and denominator.

- CEA performed concurrently with CABG.
- Discharge status of death.

Please note: Opioid naïve is defined as no opioids taken by the patient >30 days before admission to the hospital.

No Anti-Platelet at Discharge

Numerator: The number of CEA, CAS, or Open bypass procedures where at least one of the following medications was not prescribed or continued at discharge:

- Aspirin
- Clopidogrel (Plavix)
- Prasugrel (Effient)
- Ticagrelor (Brilinta)
- Cilostazol (Pletal)

Denominator: The total number of CEA, CAS, or Open bypass procedures.

Exclusions:

- Death during the procedure or post procedure
- The patient was discharged to Hospice, An Other Acute Care Hospital, or Left AMA
- A contraindication Aspirin and Plavix and none of the following medications were given:
 - Effient
 - Brilinta
 - Cilostazol
- Indication of Trauma

No Statin At DC

Numerator: The number of discharges containing an open bypass procedure where a statin is not prescribed or continued at discharge.

Denominator: The total number discharges containing an open bypass procedures.

Exclusions:

- Indication of trauma
- Discharge status of
 - Hospice
 - Death
 - Left Against Medical Advice
 - Other Acute Care

No vein mapping before Elective LE OBP

This measure reports the outliers for the Vein mapping completed before elective LE OBP (P4P) measure.

Numerator: The number of elective lower extremity open bypass procedures where vein mapping was not performed before the procedure.

Denominator: The total number of elective lower extremity open bypass procedures.

Exclusions:

- Axillary-femoral, Axillary-bifemoral, aorto-bifemoral, and crossover femoral-femoral open bypass procedures.
- A redo open bypass performed during the same discharge.

Obesity (PAD Open Bypass)

Numerator: The number of discharges containing a PAD open bypass procedure with a BMI > 30.

Denominator: The number of discharges containing a PAD open bypass procedure.

Note: BMI is defined as the patient's weight in kilograms divided by the square of the patient's height in meters. Note: height is captured in centimeters.

Open AAA (transfusion)(VS Dashboard)

Numerator: The number of discharges containing an Open AAA procedure in which PRBCs are transfused post-operatively within 30 days of the procedure end date.

Denominator: The total number of discharges containing an open AAA procedure.

Note: Multiple transfusion given during a discharge are only counted once.

Exclusions:

- Ruptured AAA repair
- Indication of Trauma

Open AAA Repair

Numerator: The number of discharges containing an Open AAA procedure.

Denominator: The total number of discharges containing an Open AAA or EVAR procedure.

Open Bypass Patency

Numerator: The number of completed VS forms that have Yes entered for "Open Bypass Patent".

Denominator: The number of completed VS forms that have Yes or No entered for "Open Bypass Patency".

Open Bypass Pulses

Numerator: The number of completed VS follow-up forms in which "Open Bypass Pulses" has been selected.

Denominator: The number of completed VS follow-up forms that have an Open bypass procedure in the corresponding discharge.

Method for Determining Graft Patency

Numerator: The number of completed VS follow-up forms in which the response for "Open Bypass Pulses" is X method for determining graft patency.

Denominator: The number of completed VS follow-up forms in which "Open Bypass Pulses" has been selected.

Open Bypass Revision

Numerator: The number of completed VS follow-up forms where the patient was readmitted to the hospital for a graft revision.

Denominator: The number of completed VS follow-up forms that have an Open bypass procedure in the corresponding discharge.

Surgical

Numerator: The number of completed VS forms in which the response for "Open Bypass Revision" is "Surgical".

Denominator: The number of completed VS follow-up forms where the patient was readmitted to the hospital for a graft revision.

Percutaneous

Numerator: The number of completed VS forms in which the response for "Open Bypass Revision" is "Percutaneous".

Denominator: The number of completed VS follow-up forms where the patient was readmitted to the hospital for a graft revision.

Open Bypass SSI (Procedure end to 30 days)

Numerator: The number of discharges with an elective lower extremity Open Bypass procedure where the patient developed a post-procedure graft infection or wound site infection within 30 days of the procedure end date or developed an SSI within the 30-day follow-up.

Denominator: The total number of discharges with an elective lower extremity Open Bypass procedure.

Graft Involved (Procedure end to 30 days)

Numerator: The number of discharges with an elective lower extremity Open Bypass procedure where the patient developed a graft infection within 30 days of the procedure end date or the patient developed an SSI within the 30-day follow-up and the vascular graft or patch was involved in the SSI.

Denominator: The number of discharges with an elective lower extremity Open Bypass procedure where the patient developed a post-procedure graft infection or wound site infection within 30 days of the procedure end date or developed an SSI within the 30-day follow-up.

Open Thrombectomy

The number of VS discharges that contain an open thrombectomy procedure. The numerator and denominator are the same.

Opioids @ Admission (VS)

Numerator: The number of discharges with X procedure where the patient is taking an opioid within 30 days of hospital admission.

Denominator: The total number of X procedure.

This section is broken out by specific procedure type:

- EVAR
- Open AAA
- Bypass
- Open Thrombectomy

Opioids @ Discharge (VS)

Numerator: The number of discharges containing X procedure where an opioid is prescribed or continued at discharge.

Denominator: The total number of X procedure.

This section is broken out by specific procedure type:

- EVAR
- Open AAA
- Bypass
- Open Thrombectomy

Outflow

Femoral-Popliteal

Numerator: The number of Open Bypass procedures that have a Graft Origin in a Femoral artery and a Graft Insertion or Graft Insertion #2 in a Popliteal artery.

Denominator: The total number of Open Bypass procedures where a graft was implanted.

Femoral-Tibial

Numerator: The number of Open Bypass procedures that have a Graft Origin in a Femoral artery and a Graft Insertion or Graft Insertion #2 in a Tibial artery.

Denominator: The total number of Open Bypass Procedures where a graft was implanted.

Popliteal-Tibial

Numerator: The number of Open Bypass procedures that have a Graft Origin in a Popliteal artery and a Graft Insertion or Graft Insertion #2 in a Tibial artery.

Denominator: The total number of Open Bypass procedures where a graft was implanted.

Popliteal-Popliteal

Numerator: The number of Open Bypass procedures that have a Graft Origin in a Popliteal artery and a Graft Insertion or Graft Insertion #2 also in a Popliteal artery.

Denominator: The total number of Open Bypass procedures where a graft was implanted.

Other Outflow

Numerator: The number of Open Bypass procedures where the Graft Insertion or Graft Insertion #2 is an upper or lower extremity artery.

Exclusions from the numerator:

The Graft Origin is in the following arteries

- Common Femoral Artery
- Superficial Femoral Artery
- Popliteal Artery

Denominator: The total number of Open Bypass procedures where a graft was implanted.

PAD Open Bypass (transfusion)(VS Dashboard)

Numerator: The number of discharges containing a PAD Open Bypass procedure in which a post-procedure transfusion of PRBCs was given within 30 days of the procedure end date.

Denominator: The number of discharges containing a PAD Open Bypass procedure.

Note: Multiple Transfusions given during a discharge are counted once.

Exclusion: Indication of Trauma

PAD/Open Bypass Procedures

The numerator and denominator are the number of PAD open bypass procedures.

Patient still taking opioid

Numerator: The number of completed 30-day VS follow-up forms where the patient is taking the same opioid as prescribed at discharge or is taking a new opioid/dose.

Denominator: The total number of completed 30-day VS follow-up forms.

Same as discharge

Numerator: The number of completed 30-Day VS follow-up forms where the patient is taking the same opioid as was prescribed at discharge.

Denominator: The total number of completed 30-day VS follow-up forms where the patient is taking the same opioid as prescribed at discharge or is taking a new opioid/dose.

New opioid/dose

Numerator: The number of completed 30-Day VS follow-up forms where the patient is taking a new opioid/dose.

Denominator: The total number of completed 30-day VS follow-up forms where the patient is taking the same opioid as prescribed at discharge or is taking a new opioid/dose.

Patients Enrolled

The number of discharges containing a VS procedure. The numerator and denominator are the same.

Pneumonia (elective procedure)

Numerator: The number of discharges containing an elective X procedure where an outcome of Infection/Sepsis (Pulmonary selected) occurred within 30 days of the procedure end date.

Denominator: The total number of discharges containing an elective X procedure.

Note:

- Pneumonia is not tracked on 30 day follow-up form.
- The first vascular surgery procedure in a discharge with multiple procedures of the same type will be used to determine procedure status (elective, urgent, emergent).

Pneumonia (urgent/emergent procedure)

Numerator: The number of discharges containing an urgent or emergent X procedure where the outcome of Infection/Sepsis (Pulmonary selected) occurred within 30 days of the procedure end date.

Denominator: The total number of discharges containing an urgent or emergent X procedure.

Note:

- Pneumonia is not tracked on 30 day follow-up form.
- The first vascular surgery procedure in a discharge with multiple procedures of the same type will be used to determine procedure status (elective, urgent, emergent).

Post Creatinine Drawn - High Risk Patients (EVAR) Goal Graph

For each hospital, compute the percentage of discharges containing an EVAR with a pre procedure creatinine ≥ 1.5 that had a post creatinine drawn. This is the same as the definition for Post-Cr drawn for high risk patients (EVAR) measure on the Vascular Surgery CIN page. Goal $\geq 75\%$.

Post Procedure Nadir Hemoglobin (mean, stdev)

The average (mean) and the standard deviation for Post Procedure Nadir Hemoglobin values for discharges with a VS procedure.

Exclusions:

- Ruptured AAA repair
- Indication of Trauma

Post-Cr drawn for high risk patients (EVAR)

Numerator: The number of discharges with an EVAR procedure where the first EVAR procedure has a pre-procedure creatinine ≥ 1.5 and either a post procedure peak creatinine value, discharge creatinine value or post-discharge creatinine value was entered.

Denominator: The number of discharges with an EVAR procedure in which the first EVAR procedure has a pre-procedure creatinine ≥ 1.5 .

Exclusions:

- Renal Failure Currently Requiring Dialysis
- Death during the procedure
- No contrast was used during the procedure
- CO2 is entered for contrast type

Post-Op Myocardial Infarction Rate (Procedure end to 30 days)

Numerator: The number of discharges with an Elective Open AAA, EVAR, Open Bypass, CEA, or CAS procedure where a myocardial infarction (MI) occurred within 30 days of the procedure end date.

Denominator: The total number of discharges with an Elective Open AAA, EVAR, Open Bypass, CEA, or CAS procedure.

Note: MI includes Type 2 Myocardial Infarction, Type 1 NSTEMI or STEMI.

Post-Op Myocardial Infarction Rate Goal Graph

For each hospital, compute the percentage of discharges with a post-op Myocardial Infarction. This is the same as the definition for Post-Op Myocardial Infarction (Procedure End to 30 Days) rate on the Vascular Surgery Key Indicators of Performance page. **Goal < 3.0%**.

Pre Procedure BNP >100 pg/mL

Numerator: The number of discharges containing an EVAR, Open AAA, PAD Open bypass, Open thrombectomy, CAS, or CEA procedure that have a Pre Procedure BNP level >100 pg/mL.

Denominator: The number of discharges containing an EVAR, Open AAA, PAD Open bypass, Open thrombectomy, CAS, or CEA procedure.

Pre Procedure Hydration - High Risk Patients (EVAR)

Numerator: The number of discharges with an EVAR procedure that have a pre-procedure creatinine ≥ 1.5 and IV fluids (Saline, Lactated Ringer's, Other Hydration, or Sodium Bicarbonate) was administered pre procedure.

Denominator: The number of discharges with an EVAR procedure where the first EVAR procedure has a pre-procedure creatinine ≥ 1.5 .

Exclusions:

- Renal Failure Currently Requiring Dialysis
 - Ruptured AAA
-

Pre procedure Hgb (mean, stdev)

The average (mean) and standard deviation of the pre-procedure Hgb value for all discharges with a VS procedure.

Exclusions:

- Ruptured AAA repair
 - Indication of Trauma
-

Pre-Procedure Exercise Therapy

Numerator = The number of discharges containing a lower extremity open bypass for claudication where the patient participated in a pre-procedure exercise program.

Denominator = The number of discharges containing a lower extremity open bypass for claudication.

Note: There can be multiple indications per procedure.

Discharges with Wheelchair or Bedridden entered for Ambulation pre procedure are excluded from the numerator and denominator.

Pre-Procedure Smoking Cessation (VS and Carotid)

Numerator: The number of current smokers who had elective procedure and at least 2 of 3 smoking cessation interventions (Physician-delivered advice, Pharmacotherapy, Referral to smoking counseling services) were implemented prior to the date of admission.

Denominator: The number of current smokers who had elective procedure.

Exclusion:

- Death during procedure or post-procedure.
 - Current smokers of non-tobacco products.
-

Physician Delivered Advice (VS and Carotid, Pre-Procedure)

Numerator: The number of current smokers who had an elective procedure and the provider recommended the patient quit smoking prior to the date of admission.

Denominator: The total number current smokers who had an elective procedure.

Exclusion:

- Death during procedure or post-procedure.
 - Current smokers of non-tobacco products.
-

Pt Refused Physician Delivered Advice (VS and Carotid, Pre-Procedure)

Numerator: The number of current smokers who had an elective procedure and the patient refused to quit smoking prior to the date of admission.

Denominator: The number of current smokers who had an elective procedure and the provider recommended the patient quit smoking prior to the date of admission.

Exclusion:

- Death during procedure or post-procedure.
- Current smokers of non-tobacco products.

Pharmacotherapy (VS and Carotid, Pre-Procedure)

Numerator: The number of current smokers who had an elective procedure and the provider recommended pharmacotherapy prior to the date of admission.

Denominator: The total number of current smokers who had an elective procedure.

Exclusion:

- Death during procedure or post-procedure.
- Current smokers of non-tobacco products.

Pt Refused Pharmacotherapy (VS and Carotid, Pre-Procedure)

Numerator: The number of current smokers who had an elective procedure and the patient refused pharmacotherapy prior to the date of admission.

Denominator: The number of current smokers who had an elective procedure and the provider recommended pharmacotherapy prior to the date of admission.

Exclusion:

- Death during procedure or post-procedure.
- Current smokers of non-tobacco products.

Referral to Smoking Counseling Service (VS and Carotid, Pre-Procedure)

Numerator: The number of current smokers who had an elective procedure and the provider referred the patient to a smoking counseling service prior to the date of admission.

Denominator: The total number of current smokers who had an elective procedure.

Exclusion:

- Death during procedure or post-procedure.
- Current smokers of non-tobacco products.

Pt Refused Referral to Smoking Counseling Services (VS and Carotid, Pre-Procedure)

Numerator: The number of current smokers who had an elective procedure and the patient refused the referral to a smoking counseling service prior to the date of admission.

Denominator: The number of current smokers who had an elective procedure and the provider referred the patient to a smoking counseling service prior to the date of admission.

Exclusion:

- Death during procedure or post-procedure.
- Current smokers of non-tobacco products.

Pre-Procedure Smoking Cessation

Numerator: The number of current smokers who had an elective VS procedure and at least 2 of 3 smoking cessation interventions (Physician-delivered advice, Pharmacotherapy, Referral to smoking counseling services) were implemented prior to the date of admission.

Denominator: The number of current smokers who had an elective VS procedure.

Exclusion:

- Death during procedure or post-procedure.
- Current smokers of non-tobacco products.

Physician Delivered Advice (Pre-Procedure)

Numerator: The number of current smokers who had an elective VS procedure and the provider recommended the patient quit smoking prior to the date of admission.

Denominator: The total number of current smokers who had an elective VS procedure.

Exclusion:

- Death during procedure or post-procedure.
- Current smokers of non-tobacco products.

Pt Refused Physician Delivered Advice (Pre-Procedure)

Numerator: The number of current smokers who had an elective VS procedure and the patient refused to quit smoking prior to the date of admission.

Denominator: The number of current smokers who had an elective VS procedure and the provider recommended the patient quit smoking prior to the date of admission.

Exclusion:

- Death during procedure or post-procedure.
- Current smokers of non-tobacco.

Pharmacotherapy (Pre-Procedure)

Numerator: The number of current smokers who had an elective VS procedure and the provider recommended pharmacotherapy prior to the date of admission.

Denominator: The total number of current smokers who had an elective VS procedure.

Exclusion:

- Death during procedure or post-procedure.
- Current smokers of non-tobacco products.

Pt Refused Pharmacotherapy (Pre-Procedure)

Numerator: The number of current smokers who had an elective VS procedure and the patient refused pharmacotherapy prior to the date of admission.

Denominator: The number of current smokers who had an elective VS procedure and the provider recommended pharmacotherapy prior to the date of admission.

Exclusion:

- Death during procedure or post-procedure.
- Current smokers of non-tobacco products.

Referral to Smoking Counseling Services (Pre-Procedure)

Numerator: The number of current smokers who had an elective VS procedure and the provider referred the patient to a smoking counseling service prior to the date of admission.

Denominator: The total number of current smokers who had an elective VS procedure.

Exclusion:

- Death during procedure or post-procedure.
- Current smokers of non-tobacco products.

Pt Refused Referral to Smoking Counseling Service (Pre-Procedure)

Numerator: The number of current smokers who had an elective VS procedure and the patient refused the referral to a smoking counseling service prior to the date of admission.

Denominator: The number of current smokers who had an elective VS procedure and the provider referred the patient to a smoking counseling service prior to the date of admission.

Exclusion:

- Death during procedure or post-procedure.
- Current smokers of non-tobacco products.

Pre-procedure Anemia

Anemia is measured by the World Health Organization definition. For men the threshold is 13, for women, it is 12.

Source <https://ada.com/hemoglobin-levels/#normal-hemoglobin-ranges-by-age>

All discharges with anemia

Numerator: The number of discharges that have a pre-procedure hemoglobin value of <13 for males, <12 for females for the first procedure in a discharge.

Denominator: The number of discharges containing an EVAR, Open AAA, or PAD Open bypass.

Exclusions:

- Ruptured AAA repair
- Indication of Trauma

Transfused discharges with anemia

Numerator: The number of discharges containing an containing EVAR, Open AAA, or PAD Open bypass that have a pre-procedure hemoglobin value of <13 for males, <12 for females for the first procedure in a discharge and a transfusion of PRBCs was given within 30 days of the procedure end date.

Denominator: The number of discharges containing an containing EVAR, Open AAA, or PAD Open bypass where a transfusion of PRBCs was given within 30 days of the procedure end date.

Exclusions:

- Ruptured AAA repair
- Indication of Trauma

Preadmission Living Location

Numerator: The number of discharges with a VS procedure with X Preadmission Living Location.

Denominator: The total number of discharges with a VS procedure.

Prior CABG

Numerator: The number of discharges with X procedure where a CABG was performed within 6 months prior to the EVAR.

Denominator: The total number of X procedure.

Prior PCI

Numerator: The number of discharges with X procedure where a PCI was performed within 6 months prior to the EVAR.

Denominator: The total number of X procedure.

Procedures

Numerator: The number of X procedures.

Denominator: The total number of VS procedures.

Procedures EVAR

Numerator: The number of EVAR procedures. Denominator: The number of VS procedures.

Procedures Open AAA

Numerator: The number of Open AAA procedures.

Denominator: The total number of VS procedures.

Procedures Revasc / Bypass

Numerator: The number of Open Bypass procedures.

Denominator: The total number of VS procedures.

Prosthetic Graft

Numerator: The number of Prosthetic Grafts for Open Bypass procedures.

Denominator: The total number of Open Bypass procedures.

Prosthetic Graft Type

Numerator: The number of X Prosthetic Graft Type that was used for Open Bypass procedures.

Denominator: The total number of Open Bypass procedures where a Prosthetic Graft was implanted.

Proximal Clamp Position

Numerator: The number of X proximal clamp positions for Open AAA procedures.

Denominator: The total number of Open AAA procedures.

Race

Numerator: The number of discharges with a VS procedure of X race.

Denominator: The total number of discharges with a VS procedure.

Readmission (Procedure end to 30 days, OT)

Numerator: The number of discharges containing an open thrombectomy procedure where the patient is readmitted to the hospital within 30 days of the procedure end date.

Denominator: The total number of discharges containing an open thrombectomy procedure.

Note: BMC2 only collects urgent and emergent open thrombectomy procedures.

Readmission (Procedure end to 30 days, elective procedure)

Numerator: The number of discharges containing an elective X procedure where the patient is readmitted to the hospital within 30 days of the procedure end date.

Denominator: The total number of discharges containing an elective X procedure.

Note: The first vascular surgery procedure in a discharge with multiple procedures of the same type will be used to determine procedure status (elective, urgent, emergent).

Readmission (Procedure end to 30 days, urgent/emergent procedure)

Numerator: The number of discharges containing an urgent or emergent X procedure where the patient is readmitted to the hospital within 30 days of the procedure end date.

Denominator: The total number of discharges containing an urgent or emergent X procedure.

Note: The first vascular surgery procedure in a discharge with multiple procedures of the same type will be used to determine procedure status (elective, urgent, emergent).

Readmission - All Cause (Procedure end to 30 Days)

Numerator: The number of VS discharges that contain an Elective Open Bypass, EVAR, or OAAA, procedure where the patient is readmitted to the hospital for the following outcomes within 30 days of the procedure date.

- Lymph leak
- SSI
- Dehiscence
- Graft infection
- Anticoag complication
- Thrombectomy/lysis

Denominator: The total number of VS discharges that contain an Elective Open Bypass, EVAR, OAAA procedure.

Readmission Reasons: Elective Procedures

Numerator: The number of elective vascular surgery procedures (Open Bypass, EVAR, or Open AAA) where the patient was readmitted to the hospital for the following outcomes and Yes is entered for readmission on the 30-day follow-up form.

- Anticoagulant Complication
- Graft Infection
- Lymph Leak
- Other Reason

- Thrombectomy/Lysis
- Wound Infection/Dehiscence

Denominator: The total number of elective vascular surgery procedures (Open Bypass, EVAR, or Open AAA) where Yes or No is entered for Readmission on the 30-day follow-up form.

Readmission at 30 days (all cause)

Numerator: The number of discharges with an Elective Open Bypass, EVAR, or Open AAA procedure that have a readmission to the hospital for the following outcomes within 30 days of the procedure end date.

- Lymph leak
- SSI
- Dehiscence
- Graft Infection
- Anticoag complication
- Thrombectomy/lysis

Denominator: The total number of discharges with an Elective Open Bypass, EVAR, or Open AAA procedure.

Readmission for SSI (Procedure end to 30 Days)

Numerator: The number of discharges with an elective OAAA or EVAR procedure that have Readmission to Hospital for a graft infection or SSI that is within 30 days of the procedure end date.

Denominator: The total number of discharges with an Elective OAAA or EVAR procedure.

Note: For discharges with multiple procedures, the discharge is included in the numerator and denominator if the first VS procedure (OAAA or EVAR) in the discharge is an Elective procedure.

Readmissions (Follow-up)

Numerator: The number of completed VS follow-up forms where the patient was readmitted to the hospital.

Denominator: The number of completed VS follow-up forms.

Reason for Readmission to Hospital

Numerator: The number of completed VS follow-up forms that have X entered as a reason for Readmission to Hospital.

Denominator: The number of completed VS follow-up forms where the patient was readmitted to the hospital.

Redo Procedure (PAD Open Bypass)

Numerator: The number of PAD open bypass Redo Procedures.

Denominator: The total number of PAD open bypass procedures.

Renal Failure (elective procedure)

Numerator: The number of discharges containing an Elective X procedure where there is a outcome of renal failure or dialysis within 30 days of the procedure end date.

Denominator: The total number of discharges containing an elective X procedure.

Note: The first vascular surgery procedure in a discharge with multiple procedures of the same type will be used to determine procedure status (elective, urgent, emergent).

Renal Failure (urgent/emergent procedure)

Numerator: The number of discharges containing an urgent or emergent X procedure where an outcome of renal failure or dialysis occurred within 30 days of the procedure end date.

Denominator: The total number of discharges containing an urgent or emergent X procedure.

Note: The first vascular surgery procedure in a discharge with multiple procedures of the same type will be used to determine procedure status (elective, urgent, emergent).

Renal Failure/dialysis (Follow-up report)

Numerator: The number of completed VS follow-up forms where the patient was readmitted to the hospital for renal failure or a new requirement of dialysis post-procedure.

Denominator: The number of completed VS follow-up forms.

Note: Renal failure/dialysis report at 30 days only.

Rest Pain (PAD Open Bypass)

Numerator: The number of PAD open bypass procedures that were performed for the indication of rest pain.

Denominator: The total number of PAD open bypass procedures.

Note: A procedure can have more than one indication.

Rest Pain

Numerator: The number of Open Bypass procedures where the patient presented with Rest Pain.

Denominator: The total number of Open Bypass procedures.

Note: There can be multiple indications per procedure.

Ruptured AAA

Numerator: The number of X procedures with a Ruptured AAA repair.

Denominator: The total number of X procedures.

SSI Rate (Procedure end to 30 days)

Numerator: The number of discharges with an Elective Open AAA or EVAR procedure that have a post procedure outcome of graft infection or Wound site infection within 30 days of the procedure end date. Or the patient is readmitted to the hospital within 30 days of the procedure for a graft infection or SSI.

Denominator: The total number of discharges with an Elective Open AAA or EVAR procedure.

Note: For discharges with multiple procedures, the discharge is included in the numerator and denominator if the first VS procedure (OAAA, EVAR) in the discharge is an Elective procedure.

Skin Prep Type

Note: A procedure may have more than one prep type entered.

Iodine based

Numerator: The number of PAD open bypass procedures where the skin was prepped with Iodine or Iodine and alcohol.

Denominator: The total number of PAD open bypass procedures.

Note: A procedure can have more than one skin prep.

Chlorhexidine based

Numerator: The number of PAD open bypass procedures where the skin was prepped with Chlorhexidine or Chlorhexidine and alcohol.

Denominator: The total number of PAD open bypass procedures.

Note: A procedure can have more than one skin prep.

Chlorhexidine and Iodine

Numerator: The number of PAD open bypass procedures where the skin was prepped with Chlorhexidine and iodine.

Denominator: The total number of PAD open bypass procedures.

Note: A procedure can have more than one skin prep.

Smokers receive smoking cessation tx prior to dc (P4P)

Numerator: The number of discharges with an elective VS or carotid procedure where the patient currently smokes cigarettes, cigars, pipe, or chews tobacco and at least 2 of 3 smoking cessation interventions (Physician-delivered advice, Pharmacotherapy, Referral to smoking counseling services) were implemented before the hospital admission date, during the hospitalization or at the time of discharge.

Denominator: The number of discharges with an elective VS or carotid procedure where the patient currently smokes cigarettes, cigars, pipe, or chews tobacco.

Exclusion: Death during procedure, death post-procedure, or death at discharge.

Goal: $\geq 25\%$

Smokers receive smoking cessation tx prior to dc (P4P) Goal Graph

Smokers receive smoking cessation tx prior to dc (P4P) - Goal $\geq 25\%$

For each hospital, calculate the percentage of discharges meeting the EVAR Opioid at discharge criteria. This is the same as the definition for Smokers receive smoking cessation tx prior to dc (P4P) on the Vascular Surgery Key Indicators of Performance page.

Goal $\geq 25\%$

Smoking (Follow-up)

Numerator: The number of current smokers who had an elective VS procedure and Yes is entered for Smoking on the follow-up form.

Denominator: The number of current smokers who had an elective VS procedure and either Yes or No is entered for Smoking on the follow-up form.

Exclusion: Current smokers of non-tobacco products.

Smoking Cessation (VS and Carotid)

The Smoking Cessation section combines Pre-procedure Smoking Cessation and Smoking Cessation at Discharge.

Numerator: The number of current smokers who had an elective procedure and at least 2 of 3 smoking cessation interventions (Physician-delivered advice, Pharmacotherapy, Referral to smoking counseling services) were implemented before the hospital admission date or at discharge.

Denominator: The total number of current smokers who had an elective procedure.

Exclusion:

- Death during procedure or post-procedure.
- Current smokers of non-tobacco products.

Physician Delivered Advice (VS and Carotid)

Numerator: The number of current smokers who had an elective procedure and the provider recommended the patient quit smoking prior to the date of admission or at discharge.

Denominator: The total number of current smokers who had an elective procedure.

Exclusion:

- Death during procedure or post-procedure.
- Current smokers of non-tobacco products.

Pt Refused Physician Delivered Advice (VS and carotid)

Numerator: The number of current smokers who had an elective procedure and the patient refused to quit smoking prior to the date of admission or at discharge.

Denominator: The number of current smokers who had an elective procedure and the provider recommended the patient quit smoking prior to the date of admission or at discharge.

Exclusion:

- Death during procedure or post-procedure.
- Current smokers of non-tobacco products.

Pharmacotherapy (VS and Carotid)

Numerator: The number of current smokers who had an elective procedure and the provider recommended pharmacotherapy prior to the date of admission or at discharge.

Denominator: The total number of current smokers who had an elective procedure.

Exclusion:

- Death during procedure or post-procedure.
- Current smokers of non-tobacco products.

Pt Refused Pharmacotherapy (VS and carotid)

Numerator: The number of current smokers who had an elective procedure and the patient refused pharmacotherapy prior to the date of admission or at discharge.

Denominator: The number of current smokers who had an elective procedure and the provider recommended pharmacotherapy prior to the date of admission or at discharge.

Exclusion:

- Death during procedure or post-procedure.
- Current smokers of non-tobacco products.

Referral to Smoking Counseling Services (VS and Carotid)

Numerator: The number of current smokers who had an elective procedure and the provider referred the patient to a smoking counseling service prior to the date of admission or at discharge.

Denominator: The total number of current smokers who had an elective procedure.

Exclusion:

- Death during procedure or post-procedure.
- Current smokers of non-tobacco products.

Pt Refused Referral to Smoking Counseling Services (VS and Carotid)

Numerator: The number of current smokers who had an elective procedure and the patient refused the referral to a smoking counseling service prior to the date of admission or at discharge.

Denominator: The number of current smokers who had an elective procedure and the provider referred the patient to a smoking counseling service prior to the date of admission or at discharge.

Exclusion:

- Death during procedure or post-procedure.
- Current smokers of non-tobacco products.

Smoking Cessation

The Smoking Cessation section combines Pre-procedure Smoking Cessation and Smoking Cessation at Discharge.

Numerator: The number of current smokers who had an elective VS procedure and at least 2 of 3 smoking cessation interventions (Physician-delivered advice, Pharmacotherapy, Referral to smoking counseling services) were implemented before the hospital admission date or at discharge.

Denominator: The number of current smokers who had an elective VS procedure.

Exclusion:

- Death during procedure or post-procedure.
- Current smokers of non-tobacco products.

Physician Delivered Advice

Numerator: The number of current smokers who had an elective VS procedure and the provider recommended the patient quit smoking prior to the date of admission or at discharge.

Denominator: The total number of current smokers who had an elective VS procedure.

Exclusion:• Death during procedure or post-procedure.

- Current smokers of non-tobacco products.

Pt Refused Physician Delivered Advice

Numerator: The number of current smokers who had an elective VS procedure and the patient refused to quit smoking prior to the date of admission or at discharge.

Denominator: The number of current smokers who had an elective VS procedure and the provider recommended the patient quit smoking prior to the date of admission or at discharge.

Exclusion:

- Death during procedure or post-procedure.
- Current smokers of non-tobacco products.

Pharmacotherapy

Numerator: The number of current smokers who had an elective VS procedure and the provider recommended pharmacotherapy prior to the date of admission or at discharge.

Denominator: The total number of current smokers who had an elective VS procedure.

Exclusion:

- Death during procedure or post-procedure.
- Current smokers of non-tobacco products.

Pt Refused Pharmacotherapy

Numerator: The number of current smokers who had an elective VS procedure and the patient refused pharmacotherapy prior to the date of admission or at discharge.

Denominator: The number of current smokers who had an elective VS procedure and the provider recommended pharmacotherapy prior to the date of admission or at discharge.

Exclusion:

- Death during procedure or post-procedure.
- Current smokers of non-tobacco products.

Referral to Smoking Counseling Services

Numerator: The number of current smokers who had an elective VS procedure and the provider referred the patient to a smoking counseling service prior to the date of admission or at discharge.

Denominator: The total number of current smokers who had an elective VS procedure.

Exclusion:

- Death during procedure or post-procedure.
- Current smokers of non-tobacco products.

Pt Refused Referral to Smoking Counseling Services

Numerator: The number of current smokers who had an elective VS procedure and the patient refused the referral to a smoking counseling service prior to the date of admission or at discharge.

Denominator: The number of current smokers who had an elective VS procedure and the provider referred the patient to a smoking counseling service prior to the date of admission or at discharge.

Exclusion:

- Death during procedure or post-procedure.
- Current smokers of non-tobacco products.

Smoking Cessation Rates - Received Stop Smoking Counseling

Numerator: The number of current smokers who received smoking cessation counseling at discharge.

Denominator: The total number of current smokers.

Exclusions: Death during the procedure or post-procedure.

Smoking Cessation Rates - Still Smoking at 30 Days

Numerator: The number of current smokers who had an elective procedure and Yes is entered for Smoking on the 30-day follow-up form.

Denominator: The number of current smokers who had an elective procedure and either Yes or No is entered for Smoking on the 30-day follow-up form.

Smoking Cessation Since DC (Follow-up)

Numerator: The number of current smokers who had an elective VS procedure and No is entered for Smoking on the follow-up.

Denominator: The number of current smokers who had an elective VS procedure and either Yes or No is entered for Smoking on the follow-up form.

Exclusions: Not documented is entered for Smoking on the follow-up form.

Smoking Cessation at DC (VS and Carotid)

Numerator: The number of current smokers who had an elective procedure and at least 2 of 3 smoking cessation interventions (Physician-delivered advice, Pharmacotherapy, Referral to smoking counseling services) were implemented at discharge.

Denominator: The number of current smokers who had an elective procedure.

Exclusion:

- Death during procedure or post-procedure.
- Current smokers of non-tobacco products.

Physician Delivered Advice (VS and Carotid, Discharge)

Numerator: The number of current smokers who had an elective procedure and the provider recommended the patient quit smoking at discharge.

Denominator: The number of current smokers who had an elective procedure.

Exclusion:

- Death during procedure or post-procedure.
- Current smokers of non-tobacco products.

Pt Refused Physician Delivered Advice (VS and Carotid, Discharge)

Numerator: The number of current smokers who had an elective procedure and the patient refused to quit smoking at discharge.

Denominator: The number of current smokers who had an elective procedure and the provider recommended the patient quit smoking at discharge.

Exclusion:

- Death during procedure or post-procedure.
- Current smokers of non-tobacco products.

Pharmacotherapy (VS and Carotid, Discharge)

Numerator: The number of current smokers who had an elective procedure and the provider recommended Pharmacotherapy at discharge.

Denominator: The number of current smokers who had an elective procedure.

Exclusion:

- Death during procedure or post-procedure.
- Current smokers of non-tobacco products.

Pt Refused Pharmacotherapy (VS and Carotid, Discharge)

Numerator: The number of current smokers who had an elective procedure and the patient refused pharmacotherapy at discharge.

Denominator: The number of current smokers who had an elective procedure and the provider recommended Pharmacotherapy at discharge.

Exclusion:

- Death during procedure or post-procedure.
- Current smokers of non-tobacco products.

Referral to Smoking Counseling Services (VS and Carotid, Discharge)

Numerator: The number of current smokers who had an elective procedure and the provider referred the patient to a smoking counseling service at discharge.

Denominator: The number of current smokers who had an elective procedure.

Exclusion:

- Death during procedure or post-procedure.
- Current smokers of non-tobacco products.

Pt Refused Referral to Smoking Counseling Services (VS and Carotid, Discharge)

Numerator: The number of current smokers who had an elective procedure and the patient refused the referral to a smoking counseling service at discharge.

Denominator: The number of current smokers who had an elective procedure and the provider referred the patient to a smoking counseling service at discharge.

Exclusion:

- Death during procedure or post-procedure.
- Current smokers of non-tobacco products.

Smoking Cessation at DC

Numerator: The number of current smokers who had an elective VS procedure and at least 2 of 3 smoking cessation interventions (Physician-delivered advice, Pharmacotherapy, Referral to smoking counseling services) were implemented at discharge.

Denominator: The number of current smokers who had an elective VS procedure.

Exclusion:• Death during procedure or post-procedure.

- Current smokers of non-tobacco products.

Physician Delivered Advice (Discharge)

Numerator: The number of current smokers who had an elective VS procedure and the provider recommended the patient quit smoking at discharge.

Denominator: The number of current smokers who had an elective VS procedure.

Exclusion:

- Death during procedure or post-procedure.
- Current smokers of non-tobacco products.

Pt Refused Physician Delivered Advice (Discharge)

Numerator: The number of current smokers who had an elective VS procedure and the patient refused to quit smoking at discharge.

Denominator: The number of current smokers who had an elective VS procedure and the provider recommended the patient quit smoking at discharge.

Exclusion:

- Death during procedure or post-procedure.
- Current smokers of non-tobacco products.

Pharmacotherapy (Discharge)

Numerator: The number of current smokers who had an elective VS procedure and the provider recommended pharmacotherapy at discharge.

Denominator: The number of current smokers who had an elective VS procedure.

Exclusion:

- Death during procedure or post-procedure.
- Current smokers of non-tobacco products.

Pt Refused Pharmacotherapy (Discharge)

Numerator: The number of current smokers had an elective VS procedure, and the patient refused pharmacotherapy at discharge.

Denominator: The number of current smokers who had an elective VS procedure and the provider recommended pharmacotherapy at discharge.

Exclusion:

- Death during procedure or post-procedure.
- Current smokers of non-tobacco products.

Referral to Smoking Counseling Services (Discharge)

Numerator: The number of current smokers who had an elective VS procedure and the provider referred the patient to a smoking counseling service at discharge.

Denominator: The number of current smokers who had an elective VS procedure.

Exclusion:

- Death during procedure or post-procedure.
- Current smokers of non-tobacco products.

Pt Refused Referral to Smoking Counseling Services (Discharge)

Numerator: The number of current smokers who had an elective VS procedure and the patient refused the referral to a smoking counseling service at discharge.

Denominator: The number of current smokers who had an elective VS procedure and the provider referred the patient to a smoking counseling service at discharge.

Exclusion:

- Death during procedure or post-procedure.
- Current smokers of non-tobacco products.

Statin (All procedures)(VS dashboard)

Numerator: The number of discharges containing an EVAR, Open AAA, PAD Open bypass, Open thrombectomy, CAS, or CEA procedure where the patient was taking a statin within 30 days of hospital admission.

Denominator: The number of discharges containing an EVAR, Open AAA, PAD Open bypass, Open thrombectomy, CAS, or CEA procedure.

Exclusion: A contraindication to a statin.

Statin (X Procedure)(VS report)

Numerator: The number of discharges containing X procedure where the patient was taking a statin within 30 days of hospital admission.

Denominator: The number of discharges containing X procedure.

Exclusion: A contraindication to a statin.

Statin (adm)

Numerator: The number of discharges with an OAAA, EVAR, or Open bypass procedure where the patient is taking a statin within 30 days of hospital admission.

Denominator: The total number of discharges with an OAAA, EVAR, or Open bypass procedure.

Exclusion: A contraindication to statins.

Statin (dis)

Numerator: The number of discharges with an OAAA, EVAR, or open bypass procedure where a statin is ordered or continued at discharge.

Denominator: The total number of discharges with an OAAA, EVAR, or open bypass procedure.

Exclusions: A contraindication to statins.

Statins (Follow-up report)

Numerator: The number of completed VS follow-up forms that have Yes entered for statins AND the patient was discharged on a statin.

Denominator: The number of completed VS follow-up forms that have either Yes or No entered for statins AND the patient was discharged on a statin.

Exclusion: A contraindication to a statin.

Stent / Graft Thrombosis (Prior to DC)

Numerator: The number of discharges with a VS procedure where a Stent/Graft Thrombosis occurred post-procedure and before to discharge.

Denominator: The number of discharges with a VS procedure.

Note: Multiple Stent/Graft Thrombosis are only counted once per discharge.

Unsuccessful

Numerator: The number of Stent/Graft Thrombosis that were treated unsuccessfully.

Denominator: The number of discharges with a VS procedure where a Stent/Graft Thrombosis occurred post-procedure and before to discharge.

Stent/Graft Thrombosis (in OR)

Numerator: The number of VS procedures where thrombus formed in a stent or graft during the procedure.

Denominator: The total number of VS procedures.

Note: For discharges with multiple procedures, stent/graft thrombosis is only counted once.

Unsuccessful Stent/Graft Thrombosis

Numerator: The number of VS procedures where a thrombosis that formed in a stent or graft during the procedure was treated unsuccessfully.

Denominator: The total number of VS procedures where a thrombosis that formed in a stent or graft during the procedure.

Stress Test (MI)

The number of discharges containing an EVAR, Open AAA, or PAD Open bypass, Open thrombectomy, CAS, or CEA procedures where a stress-test was performed within 6 months of the procedure.

Denominator: The number of discharges containing an EVAR, Open AAA, or PAD Open bypass, Open thrombectomy, CAS, or CEA bypass procedure.

Stroke/Death/Myocardial Infarction (Procedure end to 30 days, CAS)

Numerator: The number of discharges containing a CAS procedure where a new stroke, death, or myocardial infarction (MI) occurred within 30 days of the procedure end date.

Denominator: The number of discharges containing a CAS procedure.

Note: MI includes Type 2 Myocardial Infarction, Type 1 NSTEMI or STEMI.

Stroke/Death/Myocardial Infarction (Procedure end to 30 days, CEA)

Numerator: The number of discharges containing a CEA procedure where a new stroke, death, or myocardial infarction (MI) occurred within 30 days of the procedure end date.

Denominator: The number of discharges containing a CEA procedure.

Note: MI includes Type 2 Myocardial Infarction, Type 1 NSTEMI or STEMI.

Exclusion: CEA performed concurrently with CABG.

Stroke/TIA (Follow-up report)

Numerator: The number of completed VS follow-up forms where the patient was readmitted to the hospital for Stroke or TIA post-procedure.

Denominator: The number of completed VS follow-up forms.

Subsequent Operations

Numerator: The number of completed VS forms where the patient had subsequent operations related to the Open AAA repair.

Denominator: The number of completed VS follow-up forms with an Open AAA procedure in the corresponding discharge

Incision

Numerator: The number of completed VS forms in which the response for "Open AAA Subsequent Operations" is "Incision".

Denominator: The number of completed VS forms where the patient had subsequent operations related to the Open AAA repair.

Note: Incision = A subsequent procedure performed related to infection or hernia.

Graft

Numerator: The number of completed VS forms in which the response for "Open AAA Subsequent Operations" is "Graft".

Denominator: The number of completed VS forms where the patient had subsequent operations related to the Open AAA repair.

Note: Graft = An additional procedure was performed related to infection, thrombosis, pseudo-aneurysm, or aortoenteric fistula.

Intestine

Numerator: The number of completed VS forms in which the response for "Options for Open AAA Subsequent Operations" is "Intestine". Denominator: The number of completed VS forms where the patient had subsequent operations related to the Open AAA repair.

Note: Intestine = An additional procedure was performed related to bowel obstruction or aortoenteric fistula.

Leg Ischemia

Numerator: The number of completed VS forms in which the response for "Open AAA Subsequent Operations" is "Leg Ischemia".

Denominator: The number of completed VS forms where the patient had subsequent operations related to the Open AAA repair.

Note: Leg ischemia = An additional procedure was performed related to thrombosis or embolism.

Symptomatic (X Procedure)

Numerator: The number of X procedures that were performed for the indication of Abdominal/Back pain.

Denominator: The total number of X procedures.

TIA / Stroke

Numerator: The number of discharges with a VS procedure where a patient had a TIA/Stroke post-procedure and before discharge.

Denominator: The number of discharges with a VS procedure.

Note: TIAs/-strokes are only counted once per discharge.

TIA/stroke (Prior to DC)

Numerator: The number of discharges with a VS procedure where a patient had a TIA/Stroke post-procedure and before discharge.

Denominator: The number of discharges with a VS procedure.

Note: Multiple TIAs/-strokes are only counted once per discharge.

Temperature (< 36 deg)

Numerator: The number of PAD open bypass procedures with an intraoperative Nadir body temperature < 36 degrees.

Denominator: The total number of PAD open bypass procedures.

Tissue Loss (PAD Open Bypass)

Numerator: The number of PAD open bypass procedures where the procedure was performed for the indication of Ulcer / Gangrene OR a Wound (WIFI) grade was documented.

Denominator: The total number of PAD open bypass procedures.

Total Elective Discharges (OAAA, EVAR, OBP, CEA, CAS)

Numerator: The number of discharges in which the first procedure is an Elective Open AAA, EVAR, Open Bypass, CEA, or CAS procedure.

Denominator: The number of discharges in which the first procedure is an Elective Open AAA, EVAR, Open Bypass, CEA, or CAS procedure.

Total X Procedure w/follow-up

Numerator: The number of completed VS follow-up forms that have X procedure in the corresponding discharge.

Denominator: The number of VS follow-up forms that are due that have X procedure in the corresponding discharge.

Transfusion (PRBC, in OR)(VS report)

Numerator: The number of VS procedures where a patient had a Transfusion of PRBCs during the procedure.

Denominator: The total number of VS procedures.

Exclusions:

- Ruptured AAA repair
- Indication of Trauma

Note: For discharges with multiple procedures, transfusion is only counted once.

Transfusion PRBC (all discharges)(VS report and M&M report)

Numerator: The number of discharges with an Open AAA, EVAR, Open Bypass or Open Thrombectomy procedure in which a post-procedure transfusion of PRBCs was given.

Denominator: The number of discharges with an Open AAA, EVAR, Open Bypass or Open Thrombectomy procedure.

Note: Multiple Transfusions given during a discharge are counted once.

Exclusions:

- Ruptured AAA repair
- Indication of Trauma

Transfusion Rate (Elective)(VS Dashboard)

Numerator: The number of discharges containing an Elective Open AAA, EVAR, or Open Bypass procedure in which a post-procedure transfusion of PRBCs was given within 30 days of the procedure end date.

Denominator: The number of discharges containing an Elective Open AAA, EVAR, or Open Bypass procedure.

Note: Multiple Transfusions given during a discharge are counted once.

Exclusions:

- Ruptured AAA repair
- Indication of Trauma

Transfusion Rate (Overall)(VS Dashboard)

Numerator: The number of discharges containing an Open AAA, EVAR, or PAD Open Bypass procedure in which a post-procedure transfusion of PRBCs was given within 30 days of the procedure end date.

Denominator: The number of discharges containing an Open AAA, EVAR, or PAD Open Bypass procedure.

Note: Multiple Transfusions given during a discharge are counted once.

Exclusions:

- Ruptured AAA repair
- Indication of Trauma

Transfusion Rate (Urgent/Emergent)(VS Dashboard)

Numerator: The number of discharges containing an Urgent or Emergent Open AAA, EVAR, or Open Bypass procedure in which a post-procedure transfusion of PRBCs was given within 30 days of the procedure end date.

Denominator: The number of discharges containing an Urgent or Emergent Open AAA, EVAR, or Open Bypass procedure.

Note: Multiple Transfusions given during a discharge are counted once.

Exclusions:

- Ruptured AAA repair
- Indication of Trauma

Transfusion when Asymptomatic with Hgb \geq 8.0(Discharge Level)(VS Report)

Numerator: The number of discharges with an Elective Open AAA, EVAR, or Open Bypass procedure that have a transfusion of

PRBCs within 30 days of the procedure end date, the value of the hemoglobin prior to transfusion is ≥ 8.0 , and the patient is asymptomatic before the transfusion.

Denominator: The number of discharges with an Elective Open AAA, EVAR, or Open Bypass procedure that have a transfusion of PRBCs within 30 days of the procedure end date.

Exclusions from the denominator:

- Ruptured AAA repair
- Indication of Trauma

Transfusions (Follow-up report)

Numerator: The number of completed VS follow-up forms where the patient was readmitted to the hospital and a Transfusion of PRBCs was given.

Denominator: The number of completed VS follow-up forms.

Note: Transfusion reported at 30 days only.

Ulcer / Gangrene (VS report)

Numerator: The number of Upper Extremity Open Bypass procedures where Ulcer / Gangrene is entered as an indication to surgery and the number of Lower Extremity Open Bypass procedures that have Wound (WIFI) entered.

Denominator: The total number of upper extremity and lower extremity open bypass procedures.

Note: There can be multiple indications per procedure.

Urgent/Emergent Procedure

Numerator: The number of discharges containing an urgent or emergent X procedure.

Denominator: The total number of discharges containing an X procedure.

Note: The first vascular surgery procedure in a discharge with multiple procedures of the same type will be used to determine procedure status (elective, urgent, emergent).

Use of Lytic/Anticoagulant

All discharges with lytics

Numerator: The number of discharges containing an EVAR, Open AAA, or PAD Open bypass procedure where heparin was given post procedure or lytics (Tissue Plasminogen Activator, Tenecteplase, Retavase) were given during the procedure or post procedure.

Denominator: The number of discharges containing an EVAR, Open AAA, or PAD Open bypass procedure.

Discharges with lytics and transfusion

Numerator: The number of discharges containing an EVAR, Open AAA, or PAD Open bypass procedure where heparin was given post procedure or lytics (Tissue Plasminogen Activator, Tenecteplase, Retavase) were given during the procedure or post procedure and a transfusion of PRBCs was given within 30 days of the procedure end date.

Denominator: The number of discharges containing an EVAR, Open AAA, or PAD Open bypass procedure where a transfusion of PRBCs was given within 30 days of the procedure end date.

Exclusions:

- Ruptured AAA
- Indication of Trauma

VS and Carotid Forms Completed

Numerator: The number of VS and carotid 1-year follow-up forms, as of the date the report was run, with Current Living Status and four other fields marked with a response other than 'Not documented.'

Denominator: The number of VS and carotid 1-year follow-up forms due.

Death prior to 1-year follow up is excluded from the numerator and denominator.

Goal >=80%

Vascular Surgery Any Anti-Platelet at Discharge

Numerator: The number of discharges with an Open Bypass, CEA, or CAS procedure where an antiplatelet was ordered or continued at discharge.

Denominator: The number of discharges containing an Open Bypass, CEA, or CAS procedure. **Goal: >95%.**

Antiplatelets included in this measure:

- Aspirin
- Clopidogrel (Plavix)
- Prasugrel (Effient)
- Ticlopidine (Ticlid)
- Ticagrelor (Brilinta)
- Cilostazol (Pletal)

Exclusions:

- Death during the procedure or post procedure
- The patient was discharge to Hospice, An Other Acute Care Hospital, or Left AMA
- A contraindication to the medications above
- Indication of Trauma

Vascular Surgery Any Anti-Platelet at Discharge Goal Graph

For each hospital, compute the percentage of discharges meeting the Any Anti-Platelet at discharge criteria . This is the same as the definition for Vascular Surgery Any Anti-Platelet at Discharge on the Vascular Surgery QI Goals page.

Goal ≥ 95%

Vascular Surgery Statin at Discharge

Numerator: Number of discharges with an Open Bypass, CEA, or CAS procedure where a statin was prescribed or continued at discharge.

Denominator: The total number of discharges with an Open Bypass, CEA, or CAS procedure.

Exclusions:

- An indication of peripheral aneurysm repair or trauma.
- The patient was discharged to an Other Acute Care Hospital or Left AMA.
- A death occurred during the procedure or after the procedure.
- A contraindication to a statin.

Goal >95%

Vascular Surgery Statin at Discharge Goal Graph

For each hospital, compute the percentage of discharges meeting the Statin at discharge criteria . This is the same as the definition for Vascular Surgery Statin at Discharge on the Vascular Surgery Key Indicators of Performance page. Goal $\geq 95\%$.

Vascular Surgery: 30-day All Cause Readmission

Numerator: The number of discharges with an Open Bypass, EVAR, Open AAA or Open Thrombectomy procedures where Yes is entered for Readmission on the 30-day follow-up form.

Denominator: The total number of discharges with an Open Bypass, EVAR, Open AAA, or Open Thrombectomy procedures where Yes or No is entered for Readmission on the 30-day follow-up form.

Vein Graft

Numerator: The number of Vein Grafts used for Open Bypass procedures.

Denominator: The total number of Open Bypass procedures.

Vein Graft Location

Numerator: The number of X Vein Graft Location.

Denominator: The total number of Open Bypass procedures that had a Vein Graft.

Vein mapping completed before elective LE OBP (P4P)

Numerator: The number of elective lower extremity open bypass procedures where vein mapping was performed before the procedure.

Denominator: The total number of elective lower extremity open bypass procedures.

Exclusions:

- Axillary-femoral, Axillary-bifemoral, aorto-bifemoral, crossover femoral-femoral, and iliac open bypass procedures.
- A redo open bypass performed during the same discharge.

Goal: $\geq 50\%$

Vein mapping completed before elective LE OBP (P4P) Goal Graph

For each hospital, calculate the percentage of discharges meeting the vein mapping for lower extremity open bypass P4P criteria. This is the same as the definition for Vein mapping completed before elective LE OBP (P4P) on the Vascular Surgery Key Indicators of Performance page. Goal $\geq 50\%$.

Wound Closure

Note: A procedure may have more than one wound closure.

Staples

Numerator: The number of PAD open bypass procedures where staples were used to close the muscle, fascia, or skin.

Denominator: The total number of PAD open bypass procedures.

Suture (absorbable)

Numerator: The number of PAD open bypass procedures where absorbable sutures were used to close the muscle, fascia, or skin.

Denominator: The total number of PAD open bypass procedures.

Suture (permanent)

Numerator: The number of PAD open bypass procedures where permanent sutures were used to close the muscle, fascia, or skin.

Denominator: The total number of PAD open bypass procedures.