



Carotid Report Dictionary

Updated with Q1 2021 report release

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Demographics

Data Abstraction Instructions:

The demographic data listed below exists at the discharge level, not at the procedure level. In each of these consider only discharges in which there was at least one carotid procedure. (CAS or CEA)

Required:

No

Discharges

Data Abstraction Instructions:

Total number of patients discharged within the specified time period.

Required:

No

Average Age (mean, stdev)

Data Abstraction Instructions:

Calculates the average (mean) age of patients as of the admission date. No denominator.

Required:

No

Female Gender

Data Abstraction Instructions:

Number and percentage of patients who are female. Denominator is all patients at the discharge level.

Required:

No

Male Gender

Data Abstraction Instructions:

Number and percentage of patients who are male. Denominator is all patients at the discharge level.

Required:

No

Race

Data Abstraction Instructions:

Number and percentage of patients by race at the discharge level.

Required:

No

Preadmission Living Location

Data Abstraction Instructions:

Number and percentage of patients by preadmission living location. The denominator is the total number of discharges.

Required:

No

Discharge Status

Data Abstraction Instructions:

Number and percentage of patients by discharge status. The denominator is the total number of discharges.

Required:

No

Patient History

Required:

No

Ever Smoked

Data Abstraction Instructions:

Number and percentage of patients that ever smoked. The denominator is the total number of discharges.

Required:

No

Current Smoker

Data Abstraction Instructions:

Number and percentage of patients who are current smokers. The denominator is the total number of discharges.

Required:

No

Smoking Cessation at DC

The numerator is the number of Carotid discharges with "yes" marked for "Current Smoker (cigarettes, cigars, chew, or pipe selected)" and "yes" indicated for both "Nicotine replacement therapy" and "Referral to smoking counseling services". If the discharge was entered prior to the availability of the three specific drop downs, then "yes" for Smoking Cessation Counseling at DC will be included in the numerator.

The denominator is the number of Carotid discharges with "yes" marked for "Current Smoker" (cigarettes, cigars, chew, or pipe selected).

Note: Discharges are excluded if they are marked in any procedure as death in lab or death post procedure.

Physician Delivered Advice

The numerator is the number of Carotid discharges with "yes" marked for "Smoking Cessation Counseling at DC" and "yes" indicated for "Physician delivered advice". If the discharge was entered prior to the availability of the three specific drop downs, then it will be excluded.

The denominator is the number of Carotid discharges with "yes" marked for "Smoking Cessation Counseling at DC". If the discharge was entered prior to the availability of the three specific drop downs, then it will be excluded.

Note: Discharges are excluded if they are marked in any procedure as death in lab or death post procedure.

Nicotine replacement therapy

The numerator is the number of Carotid discharges with "yes" marked for "Smoking Cessation Counseling at DC" and "yes" indicated for "Nicotine Replacement therapy". If the discharge was entered prior to the availability of the three specific drop downs, then it will be excluded.

The denominator is the number of Carotid discharges with "yes" marked for "Smoking Cessation Counseling at DC". If the discharge was entered prior to the availability of the three specific drop downs, then it will be excluded.

Note: Discharges are excluded if they are marked in any procedure as death in lab or death post procedure.

Referral to smoking counseling services

The numerator is the number of Carotid discharges with "yes" marked for "Smoking Cessation Counseling at DC" and "yes" indicated for "Referral to smoking counseling services". If the discharge was entered prior to the availability of the three specific drop downs, then it will be excluded.

The denominator is the number of Carotid discharges with "yes" marked for "Smoking Cessation Counseling at DC". If the discharge was entered prior to the availability of the three specific drop downs, then it will be excluded.

Note: Discharges are excluded if they are marked in any procedure as death in lab or death post procedure.

Hyperlipidemia

Data Abstraction Instructions:

Number and percentage of discharges in which the patient was marked as having hyperlipidemia. The denominator is the total number of discharges.

Required:

No

Hypertension

Data Abstraction Instructions:

Number and percentage of discharges in which the patient was marked as having hypertension. The denominator is the total number of discharges.

Required:

No

Diabetes Mellitus

Data Abstraction Instructions:

Number and percentage of discharges in which the patient was marked as having any type of diabetes. The denominator is the total number of discharges.

Required:

No

CVD/TIA

Data Abstraction Instructions:

Number and percentage of discharges in which the patient is marked as having a history of CVD/TIA. The denominator is the total number of discharges.

Required:

No

Coronary Artery Disease (CAD)

Data Abstraction Instructions:

Number and percentage of discharges in which the patient is marked as having a history of CAD. The denominator is the total number of discharges.

Required:

No

Medications

Required:

No

Aspirin (admit/discharge)

Data Abstraction Instructions:

Show the number and percentage for all patients on ASA at admission and discharge. The denominator should be the number of discharges that contain a carotid procedure.

Exclusions: Patients that are contraindicated for this medication in any type of procedure are excluded. Deaths in the OR and as discharge status are excluded for post procedure medications.

Required:

No

Beta Blockers (admit/discharge)

Data Abstraction Instructions:

Show the number and percentage for all patients on a beta blocker at admission and discharge. The denominator should be the number of discharges that contain a carotid procedure.

Exclusions: Patients that are contraindicated for this medication in any type of procedure are excluded. Deaths in the OR and as discharge status are excluded for post procedure medications.

Required:

No

Statins (admit/discharge)

Data Abstraction Instructions:

Show the number and percentage for all patients on a statin at admission and discharge. The denominator should be the number of discharges that contain a carotid procedure.

Exclusions: Patients that are contraindicated for this medication in any type of procedure are excluded if they did not receive the medication type. Deaths in the OR and as discharge status are excluded for post procedure medications.

Required:

No

Clopidogrel (admit/discharge)

Show the number and percentage for all patients on clopidogrel at admission and discharge. The denominator should be the number of discharges that contain a carotid procedure.

Exclusions: Patients that are contraindicated for this medication in any type of procedure are excluded. Deaths in the OR and as discharge status are excluded for post procedure medications.

Opioids

Opioid at admission (CEA)

The numerator is the number of discharges containing a CEA that have "yes" marked for Pre-op opioid use (any type selected). The denominator is all discharges containing a CEA (no opioid data collected on CAS).

NOTE: Discharges entered prior to the collection of this data will be excluded

Any opioid at discharge (CEA)

The numerator is the number of discharges containing a CEA that have "yes" marked for Discharged with opioid prescription (any type selected). The denominator is all discharges containing a CEA (no opioid data collected on CAS).

NOTE: Discharges entered prior to the collection of this data will be excluded

New opioid at discharge (CEA)

The numerator is the number of discharges containing a CEA that have "no" marked for Pre-op opioid use and "yes" for Discharged with opioid prescription. The denominator is all discharges containing a CEA (no opioid data collected on CAS).

This will capture patients who were not taking an opioid at admission but received one at discharge. It does not account for patients that were discharged on a different opioid than they used at admission.

NOTE: Discharges entered prior to the collection of this data will be excluded

Pre Imaging Studies (CAS)

Required:

No

Carotid Duplex Ultrasound (performed/total)

Data Abstraction Instructions:

Number and percentage of all CAS procedures that had a duplex ultrasound performed pre procedure ("yes" indicated for Carotid Duplex (PRE)) . Denominator is all CAS procedures.

Required:

No

CT Angiography (performed/total)

Data Abstraction Instructions:

Number and percentage of all CAS procedures that had a CT Angiography performed pre procedure ("yes" indicated for CT Angiography Performed) . Denominator is all CAS procedures.

Required:

No

MR Angiography (performed/total)

Data Abstraction Instructions:

Number and percentage of all CAS procedures that had a MR Angiography performed pre procedure ("yes" indicated for MR Angiography Performed) . Denominator is all CAS procedures.

Required:

No

Indications (CAS)

Required:

No

Any Neuro Event Prior to Procedure (CAS)

Data Abstraction Instructions:

Number and percentage of CAS procedures with a history of neuro event prior to procedure within any timeframe.

Selections:

Number of CAS procedures with "yes" indicated for Neuro Event Prior to Procedure / total number of CAS procedures. (Not discharges)

Required:

No

TIA

Data Abstraction Instructions:

Number and percentage of procedures that experienced a TIA pre procedure. This includes retinal, hemispheric, vertebrobasilar, or unknown, on either side.

Selections:

Rate Calculation: Number of CAS procedures with TIA selected, in any region / number of CAS procedures with "yes" selected for Neuro Event Prior to Procedure.

Required:

No

Ischemic Stroke

Data Abstraction Instructions:

Number and percentage of procedures that experienced an ischemic stroke prior to procedure. This includes retinal, hemispheric, vertebrobasilar, and unknown types on either side.

Selections:

Rate Calculation: Number of CAS procedures with ischemic stroke selected, in any region / number of CAS procedures with "yes" selected for Neuro Event Prior to Procedure.

Required:

No

Hemorrhagic Event

Data Abstraction Instructions:

Number and percentage of procedures that experienced an intracranial hemorrhage or a hemorrhagic stroke prior to procedure. This includes intraparenchymal, subarachnoid, and subdural.

Selections:

Rate Calculation: Number of CAS procedures with hemorrhagic event selected, in any region / number of CAS procedures with "yes" selected for Neuro Event Prior to Procedure.

Required:

No

Target Lesion Symptomatic within past 6 months

Data Abstraction Instructions:

Number and percentage of procedures that have "yes" indicated for Target Lesion Symptomatic within past 6 months. Denominator is the total number of CAS procedures.

Required:

No

Acute Evolving Stroke

Data Abstraction Instructions:

Number and percentage of procedures that have "yes" indicated for Acute Evolving Stroke. Denominator is the total number of CAS procedures.

Required:

No

Transient Monocular Blindness

Data Abstraction Instructions:

Number and percentage of procedures where "yes" is indicated for Transient Monocular Blindness. Denominator is the total number of CAS procedures.

Required:

No

Asymptomatic

Data Abstraction Instructions:

Number and percentage of procedures with "no" indicated for Target Lesion Symptomatic within 6 months, Acute Evolving Stroke, and Transient Monocular Blindness. No must be indicated for all of the three fields indicated. Denominator is the total number of CAS procedures.

Required:

No

Restenosis in Target Vessel after prior CAS

Data Abstraction Instructions:

Number and percentage of procedures in which "yes" is indicated for Restenosis in Target Vessel after prior CAS. Denominator is the total number of CAS procedures.

Required:

No

Restenosis in Target Vessel after prior CEA

Data Abstraction Instructions:

Number and percentage of procedures in which "yes" was indicated for Restenosis in Target Vessel after prior CEA. Denominator is the total number of CAS procedures.

Required:

No

Procedure Details (CAS)

Required:

No

Target Carotid Vessel (Right)

Data Abstraction Instructions:

Number and percentage of procedures in which "right" was indicated for Target Carotid Vessel. Denominator is the total number of CAS procedures.

Required:

No

Target Carotid Vessel (Left)

Data Abstraction Instructions:

Number and percentage of procedures in which "left" was indicated for Target Carotid Vessel. Denominator is the total number of CAS procedures.

Required:

No

Target Lesion Location (Isolated CCA)

Data Abstraction Instructions:

Number and percentage of procedures in which "Isolated CCA" was indicated for Target Lesion Location. Denominator is the total number of CAS procedures.

Required:

No

Target Lesion Location (Isolated ICA)

Data Abstraction Instructions:

Number and percentage of procedures in which "Isolated ICA" was indicated for Target Lesion Location. Denominator is the total number of CAS procedures.

Required:

No

Target Lesion Location (Bifurcation)

Data Abstraction Instructions:

Number and percentage of procedures in which "Bifurcation" was indicated for Target Lesion Location. Denominator is the total number of CAS procedures.

Required:

No

TCAR

The numerator is the number of CAS procedures with TCAR marked yes. The denominator is all CAS procedures.

Any procedure without an answer should be excluded from the numerator and denominator (we added this field in April 2018, so many 2018 Q1 cases, and those prior, will not have a response).

Pre Procedure % Stenosis

Data Abstraction Instructions:

Mean and standard deviation of the value entered for Pre Procedure % Stenosis. Calculated from the number of CAS procedures with "documented" selected for Pre Procedure % Stenosis.

Required:

No

Embolic Protection Successfully Deployed

Data Abstraction Instructions:

Number and percentage of procedures with "yes" indicated for Embolic Protection Successfully Deployed. Denominator is the total number of CAS procedures.

Required:

No

Embolic Protection Model (Accunet)

Data Abstraction Instructions:

Number and percentage of procedures that "Accunet" is indicated for Embolic Protection Model name. Denominator is the number of procedures with "yes" indicated for Embolic Protection Successfully Deployed.

Required:

No

Embolic Protection Model (Emboshield)

Data Abstraction Instructions:

Number and percentage of procedures that "Emboshield" is indicated for Embolic Protection Model name. Denominator is the number of procedures with "yes" indicated for Embolic Protection Successfully Deployed.

Required:

No

Embolic Protection Model (Angioguard)

Data Abstraction Instructions:

Number and percentage of procedures that "Angioguard" is indicated for Embolic Protection Model name. Denominator is the number of procedures with "yes" indicated for Embolic Protection Successfully Deployed.

Required:

No

Embolic Protection Model (Other)

Data Abstraction Instructions:

Number and percentage of procedures that any option other than Accunet, Emboshield, or Angioguard is indicated for Embolic Protection Model name. Denominator is the number of procedures with "yes" indicated for Embolic Protection Successfully Deployed.

Required:

No

Stent Implanted

Data Abstraction Instructions:

Number and percentage of procedures in which "yes" is indicated for Stent Implanted. Denominator is all CAS procedures.

Required:

No

Stent Diameter

Data Abstraction Instructions:

Mean and standard deviation of the value entered for Stent Diameter. Calculated from the number of procedures with "documented" for Stent Diameter.

Required:

No

Stent Length

Data Abstraction Instructions:

Mean and standard deviation of the value entered for Stent Length. Calculated from the number of procedures with "documented" for Stent Length.

Required:

No

Final % Stenosis

Data Abstraction Instructions:

Mean and standard deviation of the values entered for Final % Stenosis. Calculated from the procedures with "documented" indicated for Final % Stenosis.

Required:

No

Contrast Volume

Data Abstraction Instructions:

Mean and standard deviation of the value entered for Contrast Volume. Calculated from procedures with "documented" entered for Contrast Volume.

Required:

No

Access Site (Femoral)

Data Abstraction Instructions:

Number and percentage of procedures with "femoral" indicated for Procedural Arterial Access Site. Denominator is the total number of CAS procedures.

Required:

No

Access Site (Brachial/Radial/Axillary)

Data Abstraction Instructions:

Number and percentage of procedures with "brachial/radial/axillary" indicated for Procedural Arterial Access Site. Denominator is the total number of CAS procedures.

Required:

No

Access Site (Direct Carotid Puncture)

Data Abstraction Instructions:

Number and percentage of procedures with "direct carotid puncture" indicated for Procedural Arterial Access Site. Denominator is the total number of CAS procedures.

Required:

No

Access Site (Carotid Cutdown)

Data Abstraction Instructions:

Number and percentage of procedures with "carotid cutdown" indicated for Procedural Arterial Access Site. Denominator is the total number of CAS procedures.

Required:

No

Access Site (Other)

Data Abstraction Instructions:

Number and percentage of procedures with "other" indicated for Procedural Arterial Access Site. Denominator is the total number of CAS procedures.

Required:

No

Vascular Closure Type (Manual)

Data Abstraction Instructions:

Number and percentage of procedures with "manual" indicated for Vascular Closure Type. Denominator is the total number of CAS procedures.

Required:

No

Vascular Closure Type (Closure Device)

Data Abstraction Instructions:

Number and percentage of procedures with any option other than "manual" or "surgical" indicated for Vascular Closure Type. Denominator is the total number of CAS procedures.

Required:

No

Vascular Closure Type (Surgical)

Data Abstraction Instructions:

Number and percentage of procedures with "surgical" indicated for Vascular Closure Type. Denominator is the total number of CAS procedures.

Required:

No

Outcomes (CAS)

Required:

No

Death

Data Abstraction Instructions:

Number and percentages of discharges in which "yes" was indicated for Death During Procedure or "death" indicated for Discharge Status (in the discharge record). Denominator is all discharges with a CAS procedure.

Required:

No

Myocardial Injury

Data Abstraction Instructions:

For cases entered on 8/19/2019 and previous the definition was: Number and percentages of discharges with "yes" indicated for Myocardial Infarction. Denominator is the number of discharges with a CAS procedure.

Beginning 8/20/2019 and forward the definition will be:

Numerator: The number of CAS discharges that have Outcome Myocardial Injury = Yes AND STEMI or NSTEMI are marked.

Denominator: The total number of CAS discharges.

Required:

No

New Stroke or TIA (CAS)

Data Abstraction Instructions:

The numerator is the number of CAS discharges with "yes" indicated for New Stroke or TIA (archived field) or New Stroke, or New TIA.

The denominator is the number of CAS discharges.

Required:

No

New Stroke (CAS)

The numerator is the number of CAS discharges with "yes" indicated for New Stroke.

The denominator is the number of CAS discharges.

New TIA (CAS)

The numerator is the number of CAS discharges with "yes" indicated for New TIA.

The denominator is the number of CAS discharges.

Unknown (CAS)

The numerator is the number of CAS discharges with "yes" indicated for New Stroke or TIA (archived field).

The denominator is the number of CAS discharges.

Combined Death/MI/Stroke (CAS)

Data Abstraction Instructions:

For cases entered on 8/19/2019 and previous the definition was: The numerator is the number of CAS discharges with "yes" indicated for any of the following fields: Death, New Stroke or TIA, New Stroke, or MI (Note: New TIA is NOT included).

The denominator is the total number of CAS discharges.

For cases entered on 8/20/2019 and forward the definition will be:

Numerator: The number of discharges containing a CAS procedure which meet at least one of the following criteria:

Outcomes

1. New Stroke is entered.
2. A Death occurred during the procedure or post-procedure and before discharge.
3. A Myocardial Injury is entered and either STEMI or NSTEMI are marked.
4. New TIA is excluded from this definition.

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

Required:

No

Slow Flow

Data Abstraction Instructions:

Number and percentages of discharges with "yes" indicated for Slow Flow. Denominator is the number of discharges with a CAS procedure.

Required:

No

Vascular Access Complications

Data Abstraction Instructions:

Number and percentages of discharges with "yes" indicated for Vascular Access Complications. Denominator is the number of discharges with a CAS procedure.

Required:

No

Length of Stay (mean, stdev)

Data Abstraction Instructions:

All length of stay calculations count a same-day discharge as a stay of 1 day.

Computes the mean and standard deviation of the number of days a patient was hospitalized. Computed as the discharge date minus the admission date, plus one day. Consider only discharges that have at least one CAS procedure.

Required:

No

Length of Stay (median)

Data Abstraction Instructions:

All length of stay calculations count a same-day discharge as a stay of 1 day.

Computes the median of the number of days a patient was hospitalized. Computed as the discharge date minus the admission date, plus one day. Consider only discharges that had at least one CAS procedure.

Required:

No

Pre Imaging Studies (CEA)

Required:

No

Carotid Duplex Ultrasound (performed/total)

Data Abstraction Instructions:

Number and percentage of all CEA procedures that had a duplex ultrasound performed pre procedure ("yes" indicated for Carotid Duplex (PRE)) . Denominator is all CEA procedures.

Required:

No

CT Angiography (performed/total)

Data Abstraction Instructions:

Number and percentage of all CEA procedures that had a CT Angiography performed pre procedure ("yes" indicated for CT Angiography Performed) . Denominator is all CEA procedures.

Required:

No

MR Angiography (performed/total)

Data Abstraction Instructions:

Number and percentage of all CEA procedures that had a MR Angiography performed pre procedure ("yes" indicated for MR Angiography Performed) . Denominator is all CEA procedures.

Required:

No

Indications (CEA)

Required:

No

Any Neuro Event Prior to Procedure (CEA)

Data Abstraction Instructions:

Number and percentage of CEA procedures with a history of neuro event prior to procedure within any timeframe.

Selections:

Number of CEA procedures with "yes" indicated for Neuro Event Prior to Procedure / total number of CEA procedures.

Required:

No

TIA

Data Abstraction Instructions:

Number and percentage of procedures that experienced a TIA pre procedure. This includes retinal, hemispheric, vertebrobasilar, or unknown on either side.

Selections:

Number of CEA procedures with TIA selected, in any region / number of CEA procedures with "yes" selected for Neuro Event Prior to Procedure.

Required:

No

Ischemic Stroke

Data Abstraction Instructions:

Number and percentage of procedures that experienced an ischemic stroke prior to procedure. This includes retinal, hemispheric, vertebrobasilar and unknown types, on either side.

Selections:

Number of CEA procedures with Ischemic Stroke selected, in any region / number of CEA procedures with "yes" selected for Neuro Event Prior to Procedure.

Required:

No

Hemorrhagic Event

Data Abstraction Instructions:

Number and percentage of procedures that experienced an intracranial hemorrhage or hemorrhagic stroke prior to procedure. This includes intraparenchymal, subarachnoid, and subdural.

Selections:

Number of CEA procedures with hemorrhagic event selected, in any region / number of CEA procedures with "yes" selected for Neuro Event Prior to Procedure.

Required:

No

Target Lesion Symptomatic within past 6 months

Data Abstraction Instructions:

Number and percentage of procedures that have "yes" indicated for Target Lesion Symptomatic within the last 6 months. Denominator is the total number of CEA procedures.

Required:

No

Acute Evolving Stroke

Data Abstraction Instructions:

Number and percentage of procedures that have "yes" indicated for Acute Evolving Stroke. Denominator is the total number of CEA procedures.

Required:

No

Asymptomatic

Data Abstraction Instructions:

Number and percentage of procedures with "no" indicated for Target Lesion Symptomatic within 6 months and Acute Evolving Stroke. No must be indicated for both fields. Denominator is the total number of CEA procedures.

Required:

No

Restenosis in Target Vessel after prior CAS

Data Abstraction Instructions:

Number and percentage of procedures in which "yes" is indicated for Restenosis in Target Vessel after prior CAS. Denominator is the total number of CEA procedures.

Required:

No

Restenosis in Target Vessel after prior CEA

Data Abstraction Instructions:

Number and percentage of procedures in which "yes" is indicated for Restenosis in Target Vessel after prior CEA. Denominator is the total number of CEA procedures.

Required:

No

Procedure Details (CEA)

Required:

No

Target Carotid Vessel (Right)

Data Abstraction Instructions:

Number of percentage of procedures in which "right" was indicated for Target Carotid Vessel. Denominator is the total number of CEA procedures.

Required:

No

Target Carotid Vessel (Left)

Data Abstraction Instructions:

Number of percentage of procedures in which "left" was indicated for Target Carotid Vessel. Denominator is the total number of CEA procedures.

Required:

No

Type of Carotid Procedure (Conventional)

Data Abstraction Instructions:

Number and percentage of procedures in which "conventional" was indicated for Type of Carotid Procedure. Denominator is the total number of CEA procedures.

Required:

No

Type of Carotid Procedure (Eversion)

Data Abstraction Instructions:

Number and percentage of procedures in which "eversion" was indicated for Type of Carotid Procedure. Denominator is the total number of CEA procedures.

Required:

No

Monitoring During Procedure

Data Abstraction Instructions:

The numerator is the number of CEA procedures in which "yes" was entered for Monitoring During Procedure. Denominator is the total number of CEA procedures.

Required:

No

Awake

Data Abstraction Instructions:

The numerator is the number of CEA procedures in which "awake" was entered for Monitoring During Procedure. Denominator is the number of CEA procedures where "yes" is entered for Monitoring During Procedure.

Required:

No

Cerebral Monitoring

The numerator is the number of CEA procedures in which Cerebral Monitoring is entered for Monitoring during Procedure. The denominator is the number of CEA procedures in which Yes is entered for Monitoring during Procedure.

Stump Pressure

Data Abstraction Instructions:

The numerator is the number of procedures in which "stump pressure" was entered for Monitoring During Procedure. Denominator is the number of CEA procedures where "yes" is entered for Monitoring During Procedure.

Required:

No

EEG

Data Abstraction Instructions:

The numerator is the number of CEA procedures in which "EEG" was entered for Monitoring During Procedure. Denominator is the number of CEA procedures where "yes" is entered for Monitoring During Procedure.

Required:

No

Other

Data Abstraction Instructions:

The numerator is the number of CEA procedures in which "other" was entered for Monitoring During Procedure. Denominator is the number of CEA procedures where "yes" is entered for Monitoring During Procedure.

Required:

No

Shunt Used

Data Abstraction Instructions:

Number and percentage of procedures in which "yes" was indicated for Shunt Used. Denominator is total number of CEA procedures.

Required:

No

Arteriotomy Patch Used

Data Abstraction Instructions:

Number and percentage of procedures in which "yes" was indicated for Arteriotomy Patch Used. Denominator is total number of CEA procedures.

Required:

No

Surgical Procedure Terminated

Data Abstraction Instructions:

Number and percentage of procedures in which "yes" was indicated for Surgical Procedure Terminated. Denominator is the total number of CEA procedures.

Required:

No

Re-Explore After Closure

Data Abstraction Instructions:

Number and percentage of procedures in which "yes" was indicated for Re-Explore After Closure. Denominator is total number of CEA procedures.

Required:

No

Outcomes (CEA)

Required:

No

Death

Data Abstraction Instructions:

Number and percentage of discharges in which "yes" was indicated for Death During Procedure or "death" indicated for Discharge Status. Denominator is all discharges with a CEA procedure.

Required:

No

Myocardial Injury

Data Abstraction Instructions:

From 8/19/2019 and prior the following definition was in place: Number and percentage of discharges with "yes" indicated for Myocardial Infarction. Denominator is the number of discharges with a CEA procedure.

Beginning 8/20/2019 and forward the definition will be:

Numerator: The number of Elective, Urgent or Emergent CEA discharges that meet the following criteria:

- Outcomes Myocardial Injury = Yes AND STEMI or NSTEMI are marked.

Denominator: the number of Elective, Urgent or Emergent CEA discharges.

Required:

No

New Stroke or TIA (CEA)

Data Abstraction Instructions:

The numerator is the number of CEA discharges with "yes" indicated for New Stroke or TIA (archived field) or New Stroke, or New TIA.

The denominator is the number of CEA discharges.

Required:

No

New Stroke (CEA)

The numerator is the number of CEA discharges with "yes" indicated for New Stroke.

The denominator is the number of CEA discharges.

New TIA (CEA)

The numerator is the number of CEA discharges with "yes" indicated for New TIA.

The denominator is the number of CEA discharges.

Unknown (CEA)

The numerator is the number of CEA discharges with "yes" indicated for New Stroke or TOA (archived field).

The denominator is the number of CEA discharges.

Combined Death/Myocardial Injury/Stroke (CEA)

Data Abstraction Instructions:

For cases entered on 8/19/2019 and previous the definition was: The numerator is the number of CEA discharges with "yes" indicated for any of the following fields: Death, New Stroke or TIA, New Stroke, or MI (Note: New TIA is NOT included).

The denominator is the total number of CEA discharges

For cases entered on 8/20/2019 and forward the definition will be:

Numerator: The number of discharges containing a CEA discharges which meet at least one of the following criteria:

Outcomes

1. New Stroke = Yes
2. Death = Yes AND During procedure or Post Procedure are marked.
3. Myocardial Injury = Yes AND STEMI or NSTEMI are marked.
4. New TIA is excluded from this definition.

Denominator: The number is discharges containing a CEA.

Required:

No

Cranial Nerve Injury

Data Abstraction Instructions:

Number and percentage of discharges with "yes" indicated for Cranial Nerve Injury. Denominator is all discharges with a CEA procedure.

Required:

No

Persistent Hypotension

Data Abstraction Instructions:

Number and percentage of discharges with "yes" indicated for Persistent Hypotension. Denominator is all discharges with a CEA procedure.

Required:

No

Reperfusion Symptoms

Data Abstraction Instructions:

Number and percentage of discharges with "yes" indicated for Reperfusion Symptoms. Denominator is all discharges with a CEA procedure.

Required:

No

Return to OR

Data Abstraction Instructions:

Number and percentage of discharges with "yes" indicated for Return to OR. Denominator is all discharges with a CEA procedure.

Required:

No

Bleeding

Data Abstraction Instructions:

Number and percentage of discharges in which "bleeding" was indicated for Return to OR. Denominator is the number of discharges in which "yes" is marked for Return to OR.

Required:

No

Neurologic Event

Data Abstraction Instructions:

Number and percentage of discharges in which "neurologic event" was indicated for Return to OR. Denominator is the number of discharges in which "yes" is marked for Return to OR.

Required:

No

Technical Defect Requiring Repair

Data Abstraction Instructions:

Number and percentage of discharges in which "technical defect requiring repair" was indicated for Return to OR. Denominator is the number of discharges in which "yes" is marked for Return to OR.

Required:

No

Length of Stay (mean, stdev)

Data Abstraction Instructions:

All length of stay calculations count a same-day discharge as a stay of 1 day.

Computes the mean and standard deviation of the number of days a patient was hospitalized. Computed as the discharge date minus the admission date, plus one day. Consider only discharges that have at least one CEA procedure.

Required:

No

Length of Stay (median)

Data Abstraction Instructions:

All length of stay calculations count a same-day discharge as a stay of 1 day.

Computes the median of the number of days a patient was hospitalized. Computed as the discharge date minus the admission date, plus one day. Consider only discharges that had at least one CEA procedure.

Required:

No

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

Rate of Carotid Endarterectomy (CEA) for Asymptomatic Patients Discharged to Home by Post-Operative Day #2

The numerator is the number of elective CEA discharges that are asymptomatic and have a post procedure LOS >3. The denominator is the number of elective CEA discharges that are asymptomatic.

* Asymptomatic is defined as No is entered for both Target Lesion Symptomatic within 6 and Acute Evolving Stroke.

Exclusions from the numerator and denominator:

- CEAs performed concurrently with CABG
- Indication of Urgent Cardiac Surgery within 30 days
- intra-operative or post-operative complication
 - Death
 - TIA/stroke
 - infection

- CHF
- CNI
- Dysrhythmia
- MI
- Reperfusion symptoms
- Return to OR
- Persistent hypotension
- CEAs performed with any other VS or carotid procedure within the same discharge

CEA Opioid naïve patients prescribed ≤ 10 opioid pills at discharge (P4P)

The numerator contains the number of opioid-naïve CEA discharges in which the following are true:

- Between 1 and 10 opioid pills of any type of opioid are prescribed at discharge
- OR -
- No is marked for Discharged with opioid

Exclusions from the numerator:

- CEA discharges that are concurrent with CABG
- CEA discharges where Not Documented is entered for Quantity prescribed (for any opioid)

The denominator contains the total number of opioid naïve CEA discharges. .

Exclusions from the denominator:

- CEA discharges that are concurrent with CABG

Please note: Opioid naïve is defined as an opioid was not taken by the patient >30 days before admission to the hospital.

Goal $\geq 80\%$

Carotid Report Graphs

Each graphs will be a bar plot. On the x axis, each hospital is listed. On the y axis, X metric is listed.

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

Each graph will usually have a "goal number", if applicable. A horizontal line at $y=X\%$ will be drawn, if applicable.

Elective asymptomatic CEA not discharged home by post-op day 2 - Goal <8.0%

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%

CEA Opioid naïve patients prescribed ≤ 10 opioid pills at discharge (P4P) - Goal $\geq 80\%$

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 ≤ 10 opioid pills at discharge (P4P) on the Outcomes (CEA) page.

Goal $\geq 80\%$

New Stroke or TIA (CAS)

For each hospital, calculate the percentage of discharges meeting the CAS New Stroke or TIA criteria. This is the same as the definition for New Stroke or TIA (CAS) on the Outcomes (CAS) page. There is not a goal line for this graph.

New Stroke or TIA (CEA)

For each hospital, calculate the percentage of discharges meeting the CEA New Stroke or TIA criteria. This is the same as the definition for New Stroke or TIA (CEA) on the Outcomes (CEA) page. There is not a goal line for this graph.