



## Carotid Follow-Up Report Dictionary

This document is the data dictionary for both 30-day and 1-year follow-up outcomes related to Carotid procedures. This report combines the follow-up results for CEA and CAS procedures with procedure-specific areas where noted.

Forms due at 30 days will exclude any Carotid discharge with "Death" marked for the discharge status. Forms due at 1 year will exclude Carotid discharges with "Death" marked as the discharge status OR "Dead" indicated for "Current Living Status" on the Carotid 30 day follow-up.

For any follow-up form to be counted as completed and included in the follow-up report, a minimum of current living status and four other fields are entered with a response other than 'Not Documented.' If "Dead" is entered for Current Living Status, the follow-up is complete.

In general, numerators are calculated as the number of positive/affirmative responses to a question on completed forms. For multi-valued fields, such as Current Living Status, the numerator for each category is the number of completed forms for which the particular status was marked 'Yes.' 'No' and 'Not Documented' responses are excluded from the numerator.

Denominators are calculated similarly. The denominator for most indicators will be the count of the number of completed forms in which 'Yes' or 'No' are entered. 'Not Documented' responses are excluded from the denominator.

Forms in which medications are entered as contraindicated are excluded from the numerator and denominator.

For all definitions in the follow-up report, "Documented" responses include responses of "Yes" or "No." "Not documented" responses are excluded.

Any exceptions to these general rules are noted in the entry for the relevant indicator.

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## Patients Enrolled

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The numerator is the number of discharges containing a carotid procedure (CEA or CAS) for the report timeframe. The numerator and denominator are the same figure, so the percentage will always be 100%. This figure acts as a baseline for the other indicators in the report.

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## Forms Due

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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 Carotid (CEA and CAS) forms due in the given time period, excluding those with death indicated as a discharge status. The denominator is the total number of Carotid (CEA and CAS) discharges in the given time period.

At 1 year: The numerator is the total number of Carotid (CEA and CAS) forms due in the given time period, excluding those with death indicated as a discharge status OR "Dead" indicated for "Current Living Status" on the Carotid (CEA or CAS) 30 day follow-up. The denominator is the total number of Carotid (CEA or CAS) discharges in the given time period.

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

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## Forms Completed

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The numerator is the number of forms that were returned, as of the date the report was run, with a sufficient number of responses to be deemed complete. 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'. If a follow-up form has "Dead" indicated as current living status, it will be considered complete, regardless of the other fields.

The denominator is the number of Forms Due, as of the date the report was run (as noted in the definition for "Forms Due"; at 30 days this will exclude the CEA/CAS discharges where the discharge status was "Death"; at 1 year this will exclude the CEA/CAS discharges where the discharge status was "Death" OR "Dead" is indicated for "Current Living Status" on the CEA/CAS 30 day follow-up).

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## Current Living Status

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The total number of responses to this question (on completed forms) serves as the denominator for its subcategories.

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### Home

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The numerator is the number of completed CEA/CAS follow-up forms in which the response to Current Living Status is "Home". The denominator is the number completed CEA/CAS follow-up forms.

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### Nursing Home/Extended Care

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The numerator is the number of completed CEA/CAS follow-up forms in which the response to Current Living Status is "Nursing Home/Extended Care". The denominator is the number completed CEA/CAS follow-up forms.

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### Assisted Living

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The numerator is the number of completed CEA/CAS follow-up forms in which the response to Current Living Status is "Assisted Living". The denominator is the number completed CEA/CAS follow-up forms.

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### Hospital

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The numerator is the number of completed CEA/CAS follow-up forms in which the response to Current Living Status is "In Hospital". The denominator is the number completed CEA/CAS follow-up forms.

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### Dead

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The numerator is the number of completed CEA/CAS follow-up forms in which the response to Current Living Status is "Dead". The denominator is the number completed CEA/CAS follow-up forms.

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## Medication at Follow-up

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The medications combine the follow-up responses for discharges containing a CEA or CAS procedure.

This is a measure of the total number and percentage of patients on a given medication at the follow-up timeframe. It does not take discharge medications into account.

For all medications, the numerator will be based on "Yes" responses. The denominator will be based on "Yes" and "No" (documented) responses. The response "Not Documented" will be excluded.

In addition, forms in which the response is 'Yes' to a question about a contraindication will be specifically excluded from both the numerator and denominator of that medication. Deaths at follow-up are also excluded.

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### Aspirin

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The numerator is the number of completed CEA/CAS forms in which the response to Aspirin is 'Yes'. The denominator is the number of completed CEA/CAS forms with Aspirin documented.

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### Antiplatelets (ex ASA)

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The numerator is the number of completed CEA/CAS forms in which the response to Antiplatelets is 'Yes'. The denominator is the number of completed CEA/CAS forms with Antiplatelets documented.

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### Beta Blockers

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The numerator is the number of completed CEA/CAS forms in which the response to Beta Blockers is 'Yes'. The denominator is the number of completed CEA/CAS forms with Beta Blockers documented.

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### Statins

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The numerator is the number of completed CEA/CAS forms in which the response to Statins is 'Yes'. The denominator is the number of completed CEA/CAS forms with Statins documented.

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### ACE Inhibitors

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The numerator is the number of completed CEA/CAS forms in which the response to ACE Inhibitors is 'Yes'. The denominator is the number of completed CEA/CAS forms with ACE Inhibitors documented.

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## Medication Compliance

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The medications combine the follow-up responses for discharges containing a CEA or CAS procedure.

This is a measure compliance with discharge medication at the follow-up timeframe.

Only patients initially discharged on a medication will be counted in the numerator and denominator.

For all medications, the numerator will be based on "Yes" responses. The denominator will be based on "Yes" and "No" (documented) responses. The response "Not Documented" will be excluded.

In addition, forms in which the response is 'Yes' to a question about a contraindication will be specifically excluded from both the numerator and denominator of that medication. Deaths at follow-up are also excluded.

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## Aspirin Compliance

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This is a measure of compliance to medication therapy at follow-up. Only patients initially discharged on ASA are calculated in the numerator and denominator.

The numerator is the number of completed CEA/CAS forms in which the response to Aspirin is 'Yes'. The denominator is the number of completed CEA/CAS forms with Aspirin documented.

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## Antiplatelets (ex ASA) Compliance

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This is a measure of compliance to medication therapy at follow-up. Only patients initially discharged on Antiplatelets (excluding ASA) are calculated in the numerator and denominator.

The numerator is the number of completed CEA/CAS forms in which the response to Antiplatelets is 'Yes'. The denominator is the number of completed CEA/CAS forms with Antiplatelets documented.

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## Beta Blockers Compliance

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This is a measure of compliance to medication therapy at follow-up. Only patients initially discharged on a Beta Blocker are calculated in the numerator and denominator.

The numerator is the number of completed CEA/CAS forms in which the response to Beta Blockers is 'Yes'. The denominator is the number of completed CEA/CAS forms with Beta Blockers documented.

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## Statins Compliance

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This is a measure of compliance to medication therapy at follow-up. Only patients initially discharged on a Statin are calculated in the numerator and denominator.

The numerator is the number of completed CEA/CAS forms in which the response to Statins is 'Yes'. The denominator is the number of completed CEA/CAS forms with Statins documented.

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## ACE Inhibitors Compliance

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This is a measure of compliance to medication therapy at follow-up. Only patients initially discharged on an ACE Inhibitor are calculated in the numerator and denominator.

The numerator is the number of completed CEA/CAS forms in which the response to ACE Inhibitors is 'Yes'. The denominator is the number of completed CEA/CAS forms with ACE Inhibitors documented.



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## Smoking

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The numerator is the number of forms in which the response to Smoking is 'Yes'. The denominator is the number of forms with Smoking documented.

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## Smoking Cessation Since Discharge

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The numerator is the number of Carotid discharges with "no" marked for smoking on follow-up AND has "yes" indicated for current smoker (cigarettes) on the discharge record. The denominator is the number of carotid discharges with a Y/N answer for smoking on FU (not documented is excluded).

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## Total CAS w/follow-up

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The numerator is the number of completed CAS follow-up forms for the report timeframe. The denominator is the number of discharges containing a CAS procedure with a follow-up due for the report timeframe (as noted in the definition for "Forms Due"; at 30 days this will exclude the CAS discharges where the discharge status was "Death"; at 1 year this will exclude the CAS discharges where the discharge status was "Death" OR "Dead" is indicated for "Current Living Status" on the CAS 30 day follow-up).

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## Additional Procedures

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The numerator is the number of completed CAS follow-up forms in which the response to Additional Procedures is "Yes". The denominator is the number of completed CAS forms with Additional Procedures documented.

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## CAS

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The numerator is the number of completed CAS follow-up forms in which the response to Additional Procedures is "Yes" and "CAS" is selected. The denominator is the number of completed CAS forms with Additional Procedures marked "Yes" (either CAS or CEA).

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## CEA

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The numerator is the number of completed CAS follow-up forms in which the response to Additional Procedures is "Yes" and "CEA" is selected. The denominator is the number of completed CAS forms with Additional Procedures marked "Yes" (either CAS or CEA).

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## Neuro Deficit since Discharge

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The numerator is the number of completed CAS follow-up forms in which the response to Neurologic Deficit Occurred Since Discharge is "Yes". The denominator is the number of completed CAS forms with Neurologic Deficit Occurred Since Discharge documented.

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## Deficit < 24 hours, Resolved

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The numerator is the number of completed CAS follow-up forms in which the response to Neurologic Deficit Occurred Since Discharge is "Yes" and "Deficit occurred and resolved w/in 24 hours (i.e. TIA)" is selected. The denominator is the number of completed CAS forms with Neurologic Deficit Occurred Since Discharge marked "yes".

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## Deficit > 24 hours, Resolved

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The numerator is the number of completed CAS follow-up forms in which the response to Neurologic Deficit Occurred Since Discharge is "Yes" and "Deficit occurred and duration was greater than 24 hours, but completely resolved" is selected. The denominator is the number of completed CAS forms with Neurologic Deficit Occurred Since Discharge marked "yes".

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## Deficit > 24 hours, Not Resolved

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The numerator is the number of completed CAS follow-up forms in which the response to Neurologic Deficit Occurred Since Discharge is "Yes" and "Persistent deficit occurred, lasted greater than 24 hours, and did not completely resolve" is selected. The denominator is the number of completed CAS forms with Neurologic Deficit Occurred Since Discharge marked "yes".

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## MI

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The numerator is the number of completed CAS follow-up forms in which the response to MI is "Yes". The denominator is the number of completed CAS forms with MI documented.

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## Total CEA w/follow-up

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The numerator is the number of completed CEA follow-up forms for the report timeframe. The denominator is the number of discharges containing a CEA procedure with a follow-up due for the report timeframe (as noted in the definition for "Forms Due"; at 30 days this will exclude the CEA discharges where the discharge status was "Death"; at 1 year this will exclude the CEA discharges where the discharge status was "Death" OR "Dead" is indicated for "Current Living Status" on the CEA 30 day follow-up).

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## Additional Procedures

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The numerator is the number of completed CEA follow-up forms in which the response to Additional Procedures is "Yes". The denominator is the number of completed CEA forms with Additional Procedures documented.

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## CAS

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The numerator is the number of completed CEA follow-up forms in which the response to Additional Procedures is "Yes" and "CAS" is selected. The denominator is the number of completed CEA forms with Additional Procedures marked "Yes" (either CAS or CEA).

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## CEA

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The numerator is the number of completed CEA follow-up forms in which the response to Additional Procedures is "Yes" and "CEA" is selected. The denominator is the number of completed CEA forms with Additional Procedures marked "Yes" (either CAS or CEA).

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## Neuro Deficit since Discharge

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The numerator is the number of completed CEA follow-up forms in which the response to Neurologic Deficit Occurred Since Discharge is "Yes". The denominator is the number of completed CEA forms with Neurologic Deficit Occurred Since Discharge documented.

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## Deficit < 24 hours, Resolved

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The numerator is the number of completed CEA follow-up forms in which the response to Neurologic Deficit Occurred Since Discharge is "Yes" and "Deficit occurred and resolved w/in 24 hours (i.e. TIA)" is selected. The denominator is the number of completed CEA forms with Neurologic Deficit Occurred Since Discharge marked "yes".

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## Deficit > 24 hours, Resolved

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The numerator is the number of completed CEA follow-up forms in which the response to Neurologic Deficit Occurred Since Discharge is "Yes" and "Deficit occurred and duration was greater than 24 hours, but completely resolved" is selected. The denominator is the number of completed CEA forms with Neurologic Deficit Occurred Since Discharge marked "yes".

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## Deficit > 24 hours, Not Resolved

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The numerator is the number of completed CEA follow-up forms in which the response to Neurologic Deficit Occurred Since Discharge is "Yes" and "Persistent deficit occurred, lasted greater than 24 hours, and did not completely resolve" is selected. The denominator is the number of completed CEA forms with Neurologic Deficit Occurred Since Discharge marked "yes".

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## MI

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The numerator is the number of completed CEA follow-up forms in which the response to MI is 'Yes'. The denominator is the number of completed CEA forms with MI documented.

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## Cranial Nerve Injury

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The numerator is the number of completed CEA follow-up forms in which the response to Cranial Nerve Injury is 'Yes'. The denominator is the number of completed CEA forms with Cranial Nerve Injury documented.

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## Resolved

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The numerator is the number of completed CEA follow-up forms in which the response to Cranial Nerve Injury is 'Yes' and "Resolved" is selected. The denominator is the number of completed CEA forms with Cranial Nerve Injury marked "Yes".

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## **Persistent**

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The numerator is the number of completed CEA follow-up forms in which the response to Cranial Nerve Injury is 'Yes' and "Persistent" is selected. The denominator is the number of completed CEA forms with Cranial Nerve Injury marked "Yes".