Measure Information Form
Collected For:
The Joint Commission Only
CMS Voluntary Only

Measure Set: Stroke (STK)
Set Measure ID #: STK-2

Performance Measure Name: Discharged on Antithrombotic Therapy

Description: Ischemic stroke patients prescribed antithrombotic therapy at hospital discharge

Rationale: The effectiveness of antithrombotic agents in reducing stroke mortality, stroke-related morbidity and recurrence rates has been studied in several large clinical trials. While the use of these agents for patients with acute ischemic stroke and transient ischemic attacks continues to be the subject of study, substantial evidence is available from completed studies. Data at this time suggest that antithrombotic therapy should be prescribed at discharge following acute ischemic stroke to reduce stroke mortality and morbidity as long as no contraindications exist. For patients with a stroke due to a cardioembolic source (e.g., atrial fibrillation, mechanical heart valve), warfarin is recommended unless contraindicated. Warfarin is not generally recommended for secondary stroke prevention in patients presumed to have a non-cardioembolic stroke.

Anticoagulants at doses to prevent venous thromboembolism are insufficient antithrombotic therapy to prevent recurrent ischemic stroke or TIA.

Type of Measure: Process

Improvement Noted As: An increase in rate

Numerator Statement: Ischemic stroke patients prescribed antithrombotic therapy at hospital discharge.

Included Populations: Not applicable

Excluded Populations: None

Data Elements:
Antithrombotic Therapy Prescribed at Discharge

Denominator Statement: Ischemic stroke patients.
Included Populations:
Discharges with an ICD-9-CM Principal Diagnosis Code for ischemic stroke as defined in Appendix A, Table 8.1.

Excluded Populations:
- Patients less than 18 years of age
- Patients who have a Length of Stay greater than 120 days
- Patients with Comfort Measures Only documented
- Patients enrolled in clinical trials
- Patients admitted for Elective Carotid Intervention
- Patients discharged to another hospital
- Patients who left against medical advice
- Patients who expired
- Patients discharged to home for hospice care
- Patients discharged to a health care facility for hospice care
- Patients with a documented Reason For Not Prescribing Antithrombotic Therapy at Discharge

Data Elements:
- Admission Date
- Birthdate
- Clinical Trial
- Comfort Measures Only
- Discharge Date
- Discharge Disposition
- Elective Carotid Intervention
- ICD-9-CM Principal Diagnosis Code
- Reason For Not Prescribing Antithrombotic Therapy at Discharge

Risk Adjustment: No

Data Collection Approach: Retrospective data sources for required data elements include administrative data and medical record documents. Some hospitals may prefer to gather data concurrently by identifying patients in the population of interest. This approach provides opportunities for improvement at the point of care/service. However, complete documentation includes the principal or other ICD-9-CM diagnosis and procedure codes, which require retrospective data entry.

Data Accuracy: Variation may exist in the assignment of ICD-9-CM codes; therefore, coding practices may require evaluation to ensure consistency.

Measure Analysis Suggestions: None

Sampling: Yes, please refer to the measure set specific sampling requirements and for additional information see the Population and Sampling Specifications section.

Data Reported As: Aggregate rate generated from count data reported as a proportion
Selected References:


• "A Comparison of Two Doses of Aspirin (30 Mg Vs. 283 Mg a Day) in Patients after a Transient Ischemic Attack or Minor Ischemic Stroke. The Dutch Tia Trial Study Group." [In eng]. N Engl J Med 325, no. 18 (Oct 31 1991): 1261-6.


STK-2: Discharged on Antithrombotic Therapy

Numerator: Ischemic stroke patients prescribed antithrombotic therapy at hospital discharge
Denominator: Ischemic stroke patients.

START

Run cases that are included in the Stroke Initial Patient Population and pass the edits defined in the Transmission Data Processing Flow: Clinical through this measure.

ICD-9-CM Principal Diagnosis Code

On Table 8.1

Missing

Discharge Disposition

= 1, 5, 8

Missing

Comfort Measures Only

= 4

Missing

Clinical Trial

= Y

Missing

Elective Carotid Intervention

= Y

Missing

Antithrombotic Therapy Prescribed At Discharge

= Y

Missing

Reason for Not Prescribing Antithrombotic Therapy at Discharge

= N

Not In Measure Population

= Y

In Numerator Population

= Y

Case Will Be Rejected

= N

In Measure Population

= N

Stop

= N

STK-2 Z

STK-2 Z

STK-2 Z
STK-2: Discharged on Antithrombotic Therapy

**Numerator:** Ischemic stroke patients prescribed antithrombotic therapy at hospital discharge.

**Denominator:** Ischemic stroke patients.

1. Start processing. Run cases that are included in the Stroke (STK) Initial Patient Population and pass the edits defined in the Transmission Data Processing Flow: Clinical through this measure.

2. Check ICD-9-CM Principal Diagnosis Code
   a. If the ICD-9-CM Principal Diagnosis Code is not on Table 8.1, the case will proceed to a Measure Category Assignment of B and will not be in the Measure Population. Stop processing.
   b. If the ICD-9-CM Principal Diagnosis Code is on Table 8.1, continue processing and proceed to Discharge Disposition.

3. Check Discharge Disposition
   a. If Discharge Disposition equals 2, 3, 4, 6 or 7, the case will proceed to a Measure Category Assignment of B and will not be in the Measure Population. Stop processing.
   b. If Discharge Disposition equals 1, 5 or 8 continue processing and proceed to Comfort Measures Only.

4. Check Comfort Measures Only
   a. If Comfort Measures Only is missing, the case will proceed to a Measure Category Assignment of X and will be rejected. Stop processing.
   b. If Comfort Measures Only equals 1, 2, or 3, the case will proceed to a Measure Category Assignment of B and will not be in the Measure Population. Stop processing.
   c. If Comfort Measures Only equals 4, continue processing and proceed to Clinical Trial.

5. Check Clinical Trial
   a. If Clinical Trial is missing, the case will proceed to a Measure Category Assignment of X and will be rejected. Stop processing.
   b. If Clinical Trial equals Yes, the case will proceed to a Measure Category Assignment of B and will not be in the Measure Population. Stop processing.
   c. If Clinical Trial equals No, continue processing and proceed to Elective Carotid Intervention.
6. Check admitted for Elective Carotid Intervention
   a. If Elective Carotid Intervention is missing, the case will proceed to a
      Measure Category Assignment of X and will be rejected. Stop processing.
   b. If Elective Carotid Intervention equals Yes, the case will proceed to a
      Measure Category Assignment of B and will not be in the Measure
      Population. Stop processing.
   c. If Elective Carotid Intervention equals No, continue processing and
      proceed to Antithrombotic Therapy Prescribed at Discharge.

7. Check Antithrombotic Therapy Prescribed at Discharge
   a. If Antithrombotic Therapy Prescribed at Discharge is missing, the case will
      proceed to a Measure Category Assignment of X and will be rejected.
      Stop processing.
   b. If Antithrombotic Therapy Prescribed at Discharge equals Yes, the case
      will proceed to a Measure Category Assignment of E and will be in the
      Numerator Population. Stop processing.
   c. If Antithrombotic Therapy Prescribed at Discharge equals No, continue
      processing and check Reason for Not Prescribing Antithrombotic Therapy
      at Discharge.

8. Check Reason for Not Prescribing Antithrombotic Therapy at Discharge
   a. If Reason for Not Prescribing Antithrombotic Therapy at Discharge is
      missing, the case will proceed to a Measure Category Assignment of X
      and will be rejected. Stop processing.
   b. If Reason for Not Prescribing Antithrombotic Therapy at Discharge equals
      Yes, the case will proceed to a Measure Category Assignment of B and
      will not be in the Measure Population. Stop processing.
   c. If Reason for Not Prescribing Antithrombotic Therapy at Discharge equals
      No, the case will proceed to a Measure Category Assignment of D and will
      be in the Measure Population. Stop processing.