Measure #187: Stroke and Stroke Rehabilitation: Thrombolytic Therapy – National Quality Strategy
Domain: Effective Clinical Care

2016 PQRS OPTIONS FOR INDIVIDUAL MEASURES:
REGISTRY ONLY

DESCRIPTION:
Percentage of patients aged 18 years and older with a diagnosis of acute ischemic stroke who arrive at the hospital within two hours of time last known well and for whom IV t-PA was initiated within three hours of time last known well

INSTRUCTIONS:
This measure is to be reported for each episode of acute ischemic stroke for patients who arrive at the hospital within two hours of time last known well and for whom IV t-PA was initiated within three hours of time last known well. It is anticipated that clinicians providing care for patients with acute ischemic stroke in the hospital setting will submit this measure.

Measure Reporting via Registry:
ICD-10-CM diagnosis codes, CPT codes, and patient demographics are used to identify patients who are included in the measure’s denominator. The listed numerator options are used to report the numerator of the measure.

The quality-data codes listed do not need to be submitted for registry-based submissions; however, these codes may be submitted for those registries that utilize claims data.

DENOMINATOR:
All patients aged 18 years and older with a diagnosis of acute ischemic stroke whose time of arrival is within two hours (≤ 120 minutes) of time last known well

Definition:
Last Known Well – The date and time prior to hospital arrival at which it was witnessed or reported that the patient was last known to be without the signs and symptoms of the current stroke or at his or her baseline state of health.
Numerator Options:
Performance Met: IV t-PA initiated within three hours (≤ 180 minutes) of time last known well (G8600)

OR

Other Performance Exclusion: IV t-PA not initiated within three hours (≤ 180 minutes) of time last known well for reasons documented by clinician (e.g., patient enrolled in clinical trial for stroke, patient admitted for elective carotid intervention) (G8601)

OR

Performance Not Met: IV t-PA not initiated within three hours (≤ 180 minutes) of time last known well, reason not given (G8602)

RATIONALE:
The administration of thrombolytic agents to carefully screened, eligible patients with acute ischemic stroke has been shown to be beneficial in several clinical trials. These included two positive randomized controlled trials in the United States; The National Institute of Neurological Disorders and Stroke (NINDS) Studies, Part I and Part II. Based on the results of these studies, the Food and Drug Administration approved the use of intravenous recombinant tissue plasminogen activator (IV r-TPA or t-PA) for the treatment of acute ischemic stroke when given within 3 hours of stroke symptom onset. A large meta-analysis controlling for factors associated with stroke outcome confirmed the benefit of IV t-PA in patients treated within 3 hours of symptom onset. While controversy still exists among some specialists, the major society practice guidelines developed in the United States all recommend the use of IV t-PA for eligible patients. Physicians with experience and skill in stroke management and the interpretation of CT scans should supervise treatment.

CLINICAL RECOMMENDATION STATEMENTS:
Intravenous r-TPA (0.9 mg/kg, maximum dose 90 mg) is recommended for selected patients who may be treated within 3 hours of onset of ischemic stroke (Class 1, Level of Evidence A) (AHA/ASA).

For eligible patients (see inclusion and exclusion criteria listed below), we recommend administration of IV t-PA in a dose of 0.9 mg/kg (maximum of 90 mg), with 10% of the total dose given as an initial bolus and the remainder infused over 60 min, provided that treatment is initiated within 3 hours of clearly defined symptom onset (Class 1, Grade 1A) (ACP).

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2016 Registry Individual Measure Flow
PQRS #187: Stroke and Stroke Rehabilitation: Thrombolytic Therapy

Please refer to the specific section of the Measure Specification to identify the denominator and numerator information for use in reporting this Individual Measure.

1. Start with Denominator

2. Check Patient Age:
   a. If the Age is greater than or equal to 18 years of age at Date of Service and equals No during the measurement period, do not include in Eligible Patient Population. Stop Processing.
   b. If the Age is greater than or equal to 18 years of age at Date of Service and equals Yes during the measurement period, proceed to check Patient Diagnosis.

3. Check Patient Diagnosis:
   a. If Diagnosis For Ischemic Stroke as listed in the denominator equals No, do not include in Eligible Patient Population. Stop Processing.
   b. If Diagnosis For Ischemic Stroke as listed in the denominator equals Yes, proceed to check Encounter Performed.

4. Check Encounter Performed:
   a. If Encounter as Listed in the Denominator equals No, do not include in Eligible Patient Population. Stop Processing.
   b. If Encounter as Listed in the Denominator equals Yes, proceed to Time Last Known Well within 2 Hours (≤ 120 Min.) of Arrival to Hospital.

5. Check Time Last Known Well within 2 Hours (≤ 120 Min.) of Arrival to Hospital:
   a. If Time Last Known Well within 2 Hours (≤ 120 Min.) of Arrival to Hospital equals No, do not include in Eligible Patient Population. Stop Processing.
   b. If Time Last Known Well within 2 Hours (≤ 120 Min.) of Arrival to Hospital equals Yes, include in Eligible Population.

6. Denominator Population:
   a. Denominator population is all Eligible Patients in the denominator. Denominator is represented as Denominator in the Sample Calculation listed at the end of this document. Letter d equals 8 episodes in the sample calculation.

7. Start Numerator

8. Check IV t-PA Initiated within 3 Hours (≤ 180 Min.) of Time Last Known Well:
   a. If IV t-PA Initiated within 3 Hours (≤ 180 Min.) of Time last Known Well equals Yes, include in Reporting Met and Performance Met.
   b. Reporting Met and Performance Met letter is represented in the Reporting Rate and Performance Rate in the Sample Calculation listed at the end of this document. Letter a equals 4 episodes in Sample Calculation.
   c. If IV t-PA Initiated within 3 Hours (≤ 180 Min.) of Time Last Known Well equals NO, proceed to IV t-PA Initiated within 3 Hours (≤ 180 Min.) of Time last Known Well for Reasons Documented by Clinician.
9. Check IV t-PA Initiated within 3 Hours (≤ 180 Min.) of Time Last Known Well for Reasons Documented by Clinician:
   a. If IV t-PA Initiated within 3 Hours (≤ 180 Min.) of Time LastKnown Well for Reasons Documented by Clinician equals Yes, include in Reporting Met and Performance Exclusion.
   
   b. Reporting Met and Performance Exclusion letter is represented in the Reporting Rate and Performance Rate in the Sample Calculation listed at the end of this document. Letter b equals 1 episode in the Sample Calculation.
   
   c. If IV t-PA Initiated within 3 Hours (≤ 180 Min.) of Time Last Known Well for Reasons Documented by Clinician equals No, proceed to IV t-PA Not Initiated within 3 Hours (≤ 180 Min.) of Time last Known Well, Reason Not Given.

10. Check IV t-PA Not Initiated within 3 Hours (≤ 180 Min.) of Time Last Known Well, Reason Not Given:
    a. If IV t-PA Not Initiated within 3 Hours (≤ 180 Min.) of Time Last Known Well, Reason Not Given equals Yes, include in the Reporting Met and Performance Not Met.
    
    b. Reporting Met and Performance Not Met letter is represented in the Reporting Rate in the Sample Calculation listed at the end of this document. Letter c equals 2 episodes in the Sample Calculation.
    
    c. If IV t-PA Not Initiated within 3 Hours (≤ 180 Min.) of Time Last Known Well, Reason Not Given equals No, proceed to Reporting Not Met.

11. Check Reporting Not Met:
    a. If Reporting Not Met equals No, Quality Data Code or equivalent not reported. 1 episode has been subtracted from the reporting numerator in the sample calculation.

<table>
<thead>
<tr>
<th>Reporting Rate=</th>
<th>Performance Met (a=4 episodes) + Performance Exclusion (b=1 episode) + Performance Not Met (c=2 episodes) = 7 episodes = 87.50%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Performance Rate=</td>
<td>Performance Met (a=4 episodes) = 4 episodes = 66.67%</td>
</tr>
<tr>
<td>Reporting Numerator (7 episodes) – Performance Exclusion (b=1 episode) = 6 episodes</td>
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</tbody>
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SAMPLE CALCULATIONS: