# Get With the Guidelines® - Stroke PMT®

## Quality Measure Descriptions

Last Updated July 2016

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Please note: Get With the Guidelines aggregate comparative data is intended for internal quality improvement. Permission is required from the American Heart Association and Quintiles for external presentation or publication of benchmark data.

### Dysphagia Screen

Percent of Stroke patients who undergo screening for dysphagia with an evidence-based bedside testing protocol approved by the hospital before being given any food, fluids, or medication by mouth.

<table>
<thead>
<tr>
<th>Description</th>
<th>Pertinent Form Fields</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Denominator</strong></td>
<td></td>
</tr>
<tr>
<td>Include</td>
<td>Final clinical diagnosis related to stroke:</td>
</tr>
<tr>
<td></td>
<td>Ischemic Stroke</td>
</tr>
<tr>
<td></td>
<td>OR</td>
</tr>
<tr>
<td></td>
<td>Subarachnoid hemorrhage</td>
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<td></td>
<td>OR</td>
</tr>
<tr>
<td></td>
<td>Intracerebral hemorrhage</td>
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<tr>
<td></td>
<td>OR</td>
</tr>
<tr>
<td></td>
<td>Stroke not otherwise specified</td>
</tr>
<tr>
<td>Exclude</td>
<td>Age: &lt; 18</td>
</tr>
<tr>
<td></td>
<td>OR</td>
</tr>
<tr>
<td></td>
<td>Stroke occurred after hospital arrival (in ED/Obs/inpatient)</td>
</tr>
<tr>
<td></td>
<td>OR</td>
</tr>
<tr>
<td></td>
<td>Patient NPO throughout the entire hospital stay</td>
</tr>
<tr>
<td></td>
<td>OR</td>
</tr>
<tr>
<td></td>
<td>Contraindication to dysphagia screening prior to any oral intake</td>
</tr>
<tr>
<td></td>
<td>OR</td>
</tr>
<tr>
<td></td>
<td>Clinical Trial</td>
</tr>
</tbody>
</table>
**Elective Carotid Intervention**

| Was this patient admitted for the sole purpose of performance of elective carotid intervention?: | Yes |

<table>
<thead>
<tr>
<th>Numerator</th>
</tr>
</thead>
<tbody>
<tr>
<td>Patients who were screened for dysphagia prior to any oral intake</td>
</tr>
</tbody>
</table>

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**Stroke Education:** Percent of patients with Stroke or TIA or their caregivers who were given education and/or educational materials during the hospital stay addressing ALL of the following: personal risk factors for stroke, warning signs for stroke, activation of emergency medical system, need for follow-up after discharge, and medications prescribed.

<table>
<thead>
<tr>
<th>Description</th>
<th>Pertinent Form Fields</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Denominator</strong></td>
<td><strong>Include</strong></td>
</tr>
<tr>
<td><strong>Patients with a diagnosis of Ischemic stroke, TIA, Subarachnoid hemorrhage, Intracerebral hemorrhage, or Stroke not otherwise specified</strong></td>
<td><strong>Final clinical diagnosis related to stroke:</strong></td>
</tr>
<tr>
<td></td>
<td>Ischemic Stroke</td>
</tr>
<tr>
<td></td>
<td>OR</td>
</tr>
<tr>
<td></td>
<td>TIA</td>
</tr>
<tr>
<td></td>
<td>OR</td>
</tr>
<tr>
<td></td>
<td>Subarachnoid hemorrhage</td>
</tr>
<tr>
<td></td>
<td>OR</td>
</tr>
<tr>
<td></td>
<td>Intracerebral hemorrhage</td>
</tr>
<tr>
<td></td>
<td>OR</td>
</tr>
<tr>
<td></td>
<td>Stroke not otherwise specified</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Exclude</th>
</tr>
</thead>
<tbody>
<tr>
<td>Age &lt; 18 years</td>
</tr>
<tr>
<td>Stroke occurred after hospital arrival (in ED/Obs/inpatient)</td>
</tr>
<tr>
<td>Comfort Measures Only documented</td>
</tr>
<tr>
<td>Patients who are discharged/transfered to hospice, discharged/transfered to another acute care facility, discharged/transfered to other health care facility, patients that expire, and patients that leave against medical advice</td>
</tr>
<tr>
<td></td>
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</tbody>
</table>
Was this patient admitted for the sole purpose of performance of elective carotid intervention?: Yes

### Numerator

- Patient or their caregivers were given educational material addressing all of the following:
  1. Activation of emergency medical system
  2. Need for follow-up after discharge
  3. Medications prescribed at discharge
  4. Risk factors for stroke
  5. Warning signs for stroke

### How to activate EMS for stroke: Yes
AND

### Need for follow-up after discharge: Yes
AND

### Their prescribed medications: Yes
AND

### Risk Factors for Stroke: Yes
AND

### Stroke Warning Signs and Symptoms: Yes

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**Rehabilitation Considered:** Percent of patients with Stroke who were assessed for rehabilitation services.

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td><strong>Denominator</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Include</strong></td>
<td></td>
</tr>
<tr>
<td>- Patients with a diagnosis of Ischemic stroke, Subarachnoid hemorrhage, Intracerebral hemorrhage, or Stroke not otherwise specified</td>
<td><strong>Final clinical diagnosis related to stroke:</strong></td>
</tr>
<tr>
<td></td>
<td>Ischemic Stroke OR Subarachnoid hemorrhage OR Intracerebral hemorrhage OR Stroke not otherwise specified</td>
</tr>
<tr>
<td><strong>Exclude</strong></td>
<td></td>
</tr>
<tr>
<td>- Age &lt; 18 years</td>
<td><strong>Age:</strong> &lt; 18 OR <strong>Patient location when stroke symptoms discovered:</strong> Stroke occurred after hospital arrival (in ED/Obs/inpatient) OR <strong>When is the earliest documentation of comfort measures only?:</strong> Day 0 or 1, Day 2 or after, Timing unclear OR <strong>Discharge Destination:</strong> 02, 07, 20, 43, 50, 51, or 66 OR <strong>Discharge Disposition:</strong> 2 Hospice – Home, 3 Hospice – Health Care Facility, 4 Acute Care Facility, 6 Expired, 7 Left Against Medical Advice/AMA OR</td>
</tr>
</tbody>
</table>
### Time to Intravenous Thrombolytic Therapy - 60 min:

Percent of acute ischemic stroke patients receiving intravenous tissue plasminogen activator (tPA) therapy during the hospital stay who have a time from hospital arrival to initiation of thrombolytic therapy administration (door-to-needle time) of 60 minutes or less.

#### Denominator

**Include**

- Patients with a primary stroke diagnosis of ischemic stroke who received IV t-PA at my hospital
- Final clinical diagnosis related to stroke: Ischemic Stroke
  AND
  IV tPA initiated at this hospital?: Yes

**Exclude**

- Age < 18 years
- Stroke occurred after hospital arrival (in ED/Obs/inpatient)
- Patients whose date/time of ED arrival and/or date/time of thrombolytic administration are blank, not documented, or N/A.
- Patients with a negative calculated time difference.
- Patients with a Date Last Known Well, but no time Last Known Well
- Patients that receive tPA greater than 4.5 hours after Last Known Well
- Patients transferred from outside hospital
- Patients with documented Eligibility or Medical reason for delay in treatment
- Clinical Trial
  - Age: < 18
  - Patient location when stroke symptoms discovered: Stroke occurred after hospital arrival (in ED/Obs/inpatient)
  - Arrival Date/Time: is blank, unknown, or just MM/DD/YYYY
  - Date/time IV thrombolytic therapy initiated: is blank, unknown, or just MM/DD/YYYY
  - Date/time IV thrombolytic therapy initiated < Arrival Date/Time
  - Date/time Last Known Well: Date included but time is blank, unknown, or just MM/DD/YYYY
  - Date/time IV thrombolytic therapy initiated – Date/time Last Known Well > 4.5 hours
  - How patient arrived at your hospital: Transfer from other hospital
  - (If IV tPA was initiated greater than 60 minutes after arrival, documented Eligibility or Medical reason(s) for delay: Yes

#### Numerator

- Patient assessed for rehabilitation services
- Patient was assessed for or received rehabilitation services?: Yes

---

### Not admitted as an inpatient

- Not admitted as an inpatient
- Clinical Trial
- Elective Carotid Intervention

### Not admitted?:

- Yes, Not Admitted

### OR

- During this hospital stay, was the patient enrolled in a clinical trial in which patients with the same condition as the measure set were being studied?: Yes

### OR

- Was this patient admitted for the sole purpose of performance of elective carotid intervention?: Yes

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### Table of Contents
Numerator

- Patients who receive IV t-PA at my hospital within 60 minutes after triage

Date/time IV thrombolytic therapy initiated - Arrival Date/Time: ≤ 60 minutes

Denominator

Include

- Patients with a diagnosis of Ischemic stroke or TIA

Final clinical diagnosis related to stroke:

Ischemic Stroke
OR
TIA

Exclude

- Age < 18 years

Age: < 18
OR
Patient location when stroke symptoms discovered: Stroke occurred after hospital arrival (in ED/Obs/inpatient)
OR
Discharge Destination: 02, 07, 20, 43, 50, 51, or 66
OR
Discharge Disposition: 2 Hospice – Home, 3 Hospice – Health Care Facility, 4 Acute Care Facility, 6 Expired, 7 Left Against Medical Advice/AMA
OR
Not admitted?: Yes, Not Admitted
OR
When is the earliest documentation of comfort measures only?: Day 0 or 1, Day 2 or after, Timing unclear
OR
Lipids: NC is NOT blank
OR
During this hospital stay, was the patient enrolled in a clinical trial in which patients with the same condition as the measure set were being studied?: Yes
OR
Was this patient admitted for the sole purpose of performance of elective carotid intervention?: Yes

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LDL Documented: Percent of ischemic stroke or TIA patients with a documented Lipid profile.
### Numerator

- All patients with a documented Lipid profile

#### Lipids: ND is blank

AND

- LDL: is NOT blank

OR

- Total Chol: is NOT blank

AND

- Triglycerides: is NOT blank

AND

- HDL: is NOT blank

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**Intensive Statin Therapy:** Percent of Ischemic Stroke and TIA patients who are discharged with Intensive Statin Therapy.

<table>
<thead>
<tr>
<th>Description</th>
<th>Pertinent Form Fields</th>
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<tbody>
<tr>
<td><strong>Denominator</strong></td>
<td></td>
</tr>
<tr>
<td>Include</td>
<td></td>
</tr>
<tr>
<td>• Patients with a diagnosis of Ischemic stroke or TIA</td>
<td>Final clinical diagnosis related to stroke:</td>
</tr>
<tr>
<td></td>
<td>Ischemic Stroke</td>
</tr>
<tr>
<td></td>
<td>OR</td>
</tr>
<tr>
<td></td>
<td>TIA</td>
</tr>
<tr>
<td>Exclude</td>
<td></td>
</tr>
<tr>
<td>• Age &lt; 18 years</td>
<td>Age: &lt; 18</td>
</tr>
<tr>
<td></td>
<td>OR</td>
</tr>
<tr>
<td>• Stroke occurred after hospital arrival (in ED/Obs/inpatient)</td>
<td>Patient location when stroke symptoms discovered: Stroke occurred after hospital arrival (in ED/Obs/inpatient)</td>
</tr>
<tr>
<td></td>
<td>OR</td>
</tr>
<tr>
<td>• Final clinical diagnosis related to stroke: No stroke related diagnosis</td>
<td>Final clinical diagnosis related to stroke:</td>
</tr>
<tr>
<td></td>
<td>OR</td>
</tr>
<tr>
<td>• Comfort Measures Only documented</td>
<td>When is the earliest documentation of comfort measures only?: Day 0 or 1, Day 2 or after, Timing unclear</td>
</tr>
<tr>
<td></td>
<td>OR</td>
</tr>
<tr>
<td>• Discharge Destination: 02, 07, 20, 43, 50, 51, or 66</td>
<td>Discharge Destination:</td>
</tr>
<tr>
<td></td>
<td>OR</td>
</tr>
<tr>
<td>• Discharge Disposition: 2 Hospice – Home, 3 Hospice – Health Care Facility, 4 Acute Care Facility, 6 Expired, 7 Left Against Medical Advice/AMA</td>
<td>Discharge Disposition:</td>
</tr>
</tbody>
</table>
No documentation that the patient has evidence of atherosclerosis (for patients discharged Q3 2010 and before)

Contraindications to Intensive Statin therapy

Not admitted as an inpatient

**LDL < 100**

Clinical Trial

Elective Carotid Intervention

**For patients discharged prior to 10/1/2010: Documentation that the patient has evidence of atherosclerosis?: No**

**Intensive Statin therapy: NC**

**Cholesterol Reducing Tx: None-Contraindicated**

**Documented Reason for not prescribing a statin medication at discharge: = Yes**

**Not admitted?: Yes, Not Admitted**

**LDL <100**

**During this hospital stay, was the patient enrolled in a clinical trial in which patients with the same condition as the measure set were being studied?: Yes**

**Was this patient admitted for the sole purpose of performance of elective carotid intervention?: Yes**

### Numerator

- Patients that receive Intensive Statin Therapy

  **(Intensive Statin therapy: Yes**

  AND

  **Discharge Date/Time: < 10/01/2011)**

  OR

  Medication/Total Daily Dose: Intensive qualifying combination of statin

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### IV rt-PA Arrive by 3.5 Hours, Treat by 4.5 Hours: Percent of acute ischemic stroke patients who arrive at the hospital within 210 minutes (3.5 hours) of time last known well and for whom IV t-PA was initiated at this hospital within 270 minutes (4.5 hours) of time last known well.

<table>
<thead>
<tr>
<th>Description</th>
<th>Pertinent Form Fields</th>
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<tbody>
<tr>
<td><strong>Denominator</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Include</strong></td>
<td></td>
</tr>
</tbody>
</table>

- Patients with a diagnosis of Ischemic stroke

  **Final clinical diagnosis related to stroke: Ischemic Stroke**

<table>
<thead>
<tr>
<th>Description</th>
<th>Pertinent Form Fields</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Exclude</strong></td>
<td></td>
</tr>
</tbody>
</table>

- Age < 18 years

  **Age: < 18**

  OR

  **Patient location when stroke symptoms discovered: Stroke occurred after hospital arrival (in ED/Obs/inpatient)**

  OR

  **Final clinical diagnosis related to stroke: No stroke related diagnosis**

  OR

- Stroke occurred after hospital arrival (in ED/Obs/inpatient)

- No stroke related diagnosis

- Received IV tPA at an outside hospital
- Arrived at the hospital more than 210 minutes (3.5 hours) past the time last known well

- Arrival at the hospital is before the time last known well

- Arrived within 0-2 hours, and any documented exclusion criteria for not initiating IV thrombolytic in the 0-3hr treatment window are selected, and any documented exclusion for the 3-4.5hr treatment window are selected

- Arrived within 2-3.5 hours, and any documented exclusion for the 3-4.5hr treatment window are selected

- Arrived within 3 hours (180 min) of Last Known Well and patient has a documented Contraindication or Warning for not initiating IV tPA of: Recent major surgery/trauma; OR Recent intracranial or spinal surgery, head trauma, or stroke; OR History of intracranial hemorrhage or brain aneurysm or arteriovenous malformation or brain tumor; OR Active internal bleeding (<22 days); OR Platelets <100,000 PTT>40 sec after heparin use, or PT >15 or INR>1.7, or known bleeding diathesis; OR Suspicion of subarachnoid hemorrhage; OR CT demonstrates multilobar infarction OR IV or IA tPA given at outside hospital; OR Life expectancy <1 year or severe co-morbid illness or CMO on admission; OR Pregnancy; OR MI in previous 3 months

- Undocumented time for Last Known Well

- Undocumented time for Arrival to this hospital

- IV thrombolytic therapy initiated at this hospital but time IV thrombolytic was initiated at this hospital is undocumented

- IV tPA at an outside hospital?: Yes

OR

(Arrival Date/Time - Date/Time patient last known to be well?) > 210 minutes

OR

Arrival Date/Time < Date/Time patient last known to be well?

OR

(Arrival Date/Time - Date/Time patient last known to be well?) <= 120 minutes

AND

Documented Contraindications or Warnings for not initiating IV thrombolytic in the 0-3hr treatment window?: Yes

AND

(Exclusion Criteria (contraindications) (0-3hr) is not blank OR Relative Exclusion Criteria (Warnings) (0-3hr) is not blank)

OR

For patients discharged prior to 04/01/2016: Contraindications OR Warnings is not blank

AND

Documented Contraindications or Warnings for not initiating IV thrombolytic in the 3-4.5hr treatment window?: Yes

AND

Exclusion Criteria (3-4.5hr) is not blank OR Relative Exclusion Criteria (Warning) (3-4.5hr) is not blank OR Additional Relative Exclusion Criteria for patients treatment window is not blank

OR

(Arrival Date/Time - Date/Time patient last known to be well?) > 120 AND <= 210 minutes

AND

Documented Contraindications or Warnings for not initiating IV thrombolytic in the 3-4.5hr treatment window?: Yes

AND

Exclusion Criteria (3-4.5hr) is not blank OR Relative Exclusion Criteria (Warning) (3-4.5hr) is not blank OR Additional Relative Exclusion Criteria for patients 3-4.5hrs treatment window is not blank

OR

(Arrival Date/Time - Date/Time patient last known to be well?) <= 180 minutes

AND

Documented Contraindications or Warnings for not initiating IV thrombolytic in the 0-3hr treatment window?: Yes

AND

Exclusion Criteria (0-3hr) is C2, C3, C4, C5, C6, C7 OR Relative Exclusion Criteria (0-3hr) is W2, W3, W4, or W10

OR

Date/Time patient last known to be well?: is blank or just MM/DD/YYYY
• Clinical Trial

• Elective Carotid Intervention

**Arrival Date/Time:** is blank or just MM/DD/YYYY

**IV tPA initiated at this hospital?**: Yes

**Date/time IV thrombolytic therapy initiated:** is blank or just MM/DD/YYYY

**During this hospital stay, was the patient enrolled in a clinical trial in which patients with the same condition as the measure set were being studied?**: Yes

**Was this patient admitted for the sole purpose of performance of elective carotid intervention?**: Yes

---

### Numerator

- Patients who received IV t-PA at this hospital ≤ 270 (4.5 hours) minutes from time last known well

**IV tPA initiated at this hospital?**: Yes

AND

**Date/time IV thrombolytic therapy initiated - Date/Time patient last known to be well?** <= 270 minutes

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**NIHSS Reported:** Percent of ischemic stroke and stroke not otherwise specified patients with a score reported for NIH Stroke Scale (Initial)

<table>
<thead>
<tr>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td><strong>Denominator</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Include</strong></td>
<td>Final clinical diagnosis related to stroke:</td>
</tr>
</tbody>
</table>
- Patients with a diagnosis of Ischemic stroke or Stroke not otherwise specified

- Ischemic Stroke

- Stroke not otherwise specified

<table>
<thead>
<tr>
<th>Exclude</th>
<th></th>
</tr>
</thead>
</table>
- Age < 18 years

- Stroke occurred after hospital arrival (in ED/Obs/inpatient)

- Stroke symptoms resolved at time of presentation

- Clinical Trial

- Age: < 18

- Patient location when stroke symptoms discovered: Stroke occurred after hospital arrival (in ED/Obs/inpatient)

- Had stroke symptoms resolved at time of presentation? : Yes

- During this hospital stay, was the patient enrolled in a clinical trial in which patients with the same condition as the measure set were being studied?: Yes
• Elective Carotid Intervention

Was this patient admitted for the sole purpose of performance of elective carotid intervention?: Yes

Numerator

• NIH Stroke scale performed as part of initial evaluation AND
• Total Score is reported

Initial NIH Stroke Scale: Yes AND
NIHSS Total Score: is NOT blank

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CDC/COV Composite: The composite quality of care measure indicates how well the healthcare system does to provide appropriate, evidence-based interventions for each patient

<table>
<thead>
<tr>
<th>Description</th>
<th>Pertinent Form Fields</th>
</tr>
</thead>
<tbody>
<tr>
<td>Denominator</td>
<td>All fields used to determine inclusion and exclusion into the denominator for each Consensus Measure</td>
</tr>
</tbody>
</table>

# of patients in denominator for IV rt-PA 2 Hour*  
+ # of patients in denominator for Early Antithrombotics*  
+ # of patients in denominator for VTE Prophylaxis*  
+ # of patients in denominator for Antithrombotics*  
+ # of patients in denominator for Anticoag for AF*  
+ # of patients in denominator for LDL 100 or ND*  
+ # of patients in denominator for Smoking Cessation*  
+ # of patients in denominator for Dysphagia Screen*  
+ # of patients in denominator for Stroke Education*  
+ # of patients in denominator for Rehabilitation Considered*  

<table>
<thead>
<tr>
<th>Numerator</th>
<th>All fields used to determine inclusion into the numerator for each Consensus Measure</th>
</tr>
</thead>
</table>

# of patients in numerator for IV rt-PA 2 Hour*  
+ # of patients in numerator for Early Antithrombotics*  
+ # of patients in numerator for VTE Prophylaxis*  
+ # of patients in numerator for Antithrombotics*  
+ # of patients in numerator for Anticoag for AF*  
+ # of patients in numerator for LDL 100 or ND*  
+ # of patients in numerator for Smoking Cessation*  
+ # of patients in numerator for Dysphagia Screen*  
+ # of patients in numerator for Stroke Education*  
+ # of patients in numerator for Rehabilitation Considered*  

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CDC/COV Defect-Free: Defect-free measure gauges how well your hospital did in providing all the appropriate interventions to every patient

<table>
<thead>
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</thead>
<tbody>
<tr>
<td>Denominator</td>
<td>All fields used to determine inclusion and exclusion into the denominator for each Consensus Measure</td>
</tr>
</tbody>
</table>

Include

• All patients which are included in the denominator for at least one of these measures:
- IV rt-PA 2 Hour
- Early Antithrombotics
- VTE Prophylaxis
- Antithrombotics
- Anticoag for AF
- LDL 100 or ND
- Smoking Cessation
- Dysphagia Screen
- Stroke Education
- Rehabilitation Considered

**Exclude**

- None

**Numerator**

- All patients which were included in the numerator for all of the measures that they were not excluded from

<table>
<thead>
<tr>
<th>All fields used to determine inclusion into the numerator for each Consensus Measure</th>
</tr>
</thead>
</table>

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**Appendix**

Patients that are “Not admitted = Yes, not admitted” are included in the following measure(s):

- Dysphagia Screen
- Door to IV rt-PA in 60 Min
- IV rt-PA Arrive by 3.5 Hour, Treat by 4.5 Hour
- NIHSS Reported

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