

Emergency Department Stroke Registry Indicator Specifications
2018 Report Year
(07/01/2017 to 06/30/2018 Discharge Dates)

Summary of Changes	I62.9 added to hemorrhagic stroke ICD-10-CM diagnosis code list (table 3)											
Measure	Door-to-Imaging Initiated Time											
Description	Indicator used to assess the percentage of adult stroke patients for which diagnostic imaging was initiated in 25 minutes or less following their arrival to the hospital or emergency department (ED).											
Methodology	Population identification is accomplished either prospectively via concurrent case identification through daily review of emergency department logs or via a query of the hospital discharge information to find cases for inclusion. Data elements are either extracted from an EMR system or abstracted through medical record review.											
Rationale	Rapid diagnosis of stroke subtype and possible contraindications to thrombolytic therapy needs to occur rapidly for administration of IV alteplase in the appropriate time window. Tracking when imaging was initiated may lead to streamlining of key care processes that might otherwise delay the initiation of thrombolytic therapy. Imaging should be initiated within 25 minutes of arrival.											
Measurement Period	Data will be submitted on a quarterly basis on the following schedule for the 12-month measurement period:											
	<table border="1"> <thead> <tr> <th>Discharge Dates</th> <th>Data Submission Deadline</th> </tr> </thead> <tbody> <tr> <td>Third Quarter, 2017: July 1 – September 30</td> <td>02/15/2018</td> </tr> <tr> <td>Fourth Quarter, 2017: October 1 – December 31</td> <td>05/15/2018</td> </tr> <tr> <td>First Quarter, 2018: January 1 – March 31</td> <td>08/15/2018</td> </tr> <tr> <td>Second Quarter, 2018: April 1 – June 30</td> <td>11/15/2018</td> </tr> </tbody> </table>	Discharge Dates	Data Submission Deadline	Third Quarter, 2017: July 1 – September 30	02/15/2018	Fourth Quarter, 2017: October 1 – December 31	05/15/2018	First Quarter, 2018: January 1 – March 31	08/15/2018	Second Quarter, 2018: April 1 – June 30	11/15/2018	
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Third Quarter, 2017: July 1 – September 30	02/15/2018											
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First Quarter, 2018: January 1 – March 31	08/15/2018											
Second Quarter, 2018: April 1 – June 30	11/15/2018											
Denominator	Patients with documented final clinical diagnosis of ischemic stroke, transient ischemic attack, subarachnoid hemorrhage, intracerebral hemorrhage, or stroke not otherwise specified, or whose ED visit was assigned a principal ICD-10-CM diagnosis code listed in Table 1 for ischemic stroke, Table 2 for transient ischemic attack, or Table 3 for hemorrhagic stroke.											

Emergency Department Stroke Registry Indicator Specifications

2018 (07/01/2017 to 06/30/2018 Discharge Dates)

July 2017

<p>Exclusions</p>	<ul style="list-style-type: none"> • Patients <18 years of age on date of arrival to hospital. • Patients admitted solely for elective carotid endarterectomy or any revascularization. • Patients enrolled in a clinical trial related directly to stroke care. • Patients who started experiencing stroke symptoms after hospital arrival (in ED/Observation/Inpatient). • Patients who were determined to receive comfort measures only while still in the emergency department. • Patients who expire while in the emergency department • Patients whose date or time of arrival are missing or not documented. • Patients whose last known well time is missing. • Patients whose date or time of imaging are missing or not documented. • Patients transferred into your facility from another facility through the emergency department or as a direct admit. • Patients whose last known well time is greater than 3.5 hours from hospital arrival time. • Patients whose symptoms have resolved, which may be determined using any of the following criteria: <ul style="list-style-type: none"> ○ documentation in the physician notes to the effect of “symptoms have resolved prior to arrival” or “patient has returned to baseline”; or ○ the choice “yes” is selected for the data element “had stroke symptoms resolved at time of presentation.”
<p>Numerator</p>	<p>All ischemic stroke, transient ischemic attack, subarachnoid hemorrhage, intracerebral hemorrhage and stroke not otherwise specified patients whose diagnostic imaging was initiated at the reporting hospital within 25 minutes or less from time of arrival.</p>
<p>Suggested Data Sources</p>	<p>ED records, intake/face sheet/hospital admissions records, progress notes, acute physician notes, diagnostic reports, radiology notes.</p>

Emergency Department Stroke Registry Indicator Specifications
2018 (07/01/2017 to 06/30/2018 Discharge Dates)
July 2017

Table 1: Ischemic Stroke ICD-10-CM Diagnosis Codes

ICD-10	Description
163.00	Cerebral infarction due to thrombosis of unspecified precerebral artery
163.011	Cerebral infarction due to thrombosis of right vertebral artery
163.012	Cerebral infarction due to thrombosis of left vertebral artery
163.013	Cerebral infarction due to thrombosis of bilateral vertebral arteries
163.019	Cerebral infarction due to thrombosis of unspecified vertebral artery
163.02	Cerebral infarction due to thrombosis of basilar artery
163.031	Cerebral infarction due to thrombosis of right carotid artery
163.032	Cerebral infarction due to thrombosis of left carotid artery
163.033	Cerebral infarction due to thrombosis of bilateral carotid arteries
163.039	Cerebral infarction due to thrombosis of unspecified carotid artery
163.09	Cerebral infarction due to thrombosis of other precerebral artery
163.10	Cerebral infarction due to embolism of unspecified precerebral artery
163.111	Cerebral infarction due to embolism of right vertebral artery
163.112	Cerebral infarction due to embolism of left vertebral artery
163.113	Cerebral infarction due to embolism of bilateral vertebral arteries
163.119	Cerebral infarction due to embolism of unspecified vertebral artery
163.12	Cerebral infarction due to embolism of basilar artery
163.131	Cerebral infarction due to embolism of right carotid artery
163.132	Cerebral infarction due to embolism of left carotid artery
163.133	Cerebral infarction due to embolism of bilateral carotid arteries
163.139	Cerebral infarction due to embolism of unspecified carotid artery
163.19	Cerebral infarction due to embolism of other precerebral artery
163.20	Cerebral infarction due to unspecified occlusion or stenosis of unspecified precerebral arteries
163.211	Cerebral infarction due to unspecified occlusion or stenosis of right vertebral arteries
163.212	Cerebral infarction due to unspecified occlusion or stenosis of left vertebral arteries
163.213	Cerebral infarction due to unspecified occlusion or stenosis of bilateral vertebral arteries

Emergency Department Stroke Registry Indicator Specifications
2018 (07/01/2017 to 06/30/2018 Discharge Dates)
July 2017

I63.219	Cerebral infarction due to unspecified occlusion or stenosis of unspecified vertebral arteries
I63.22	Cerebral infarction due to unspecified occlusion or stenosis of basilar arteries
I63.231	Cerebral infarction due to unspecified occlusion or stenosis of right carotid arteries
I63.232	Cerebral infarction due to unspecified occlusion or stenosis of left carotid arteries
I63.233	Cerebral infarction due to unspecified occlusion or stenosis of bilateral carotid arteries
I63.239	Cerebral infarction due to unspecified occlusion or stenosis of unspecified carotid arteries
I63.29	Cerebral infarction due to unspecified occlusion or stenosis of other precerebral arteries
I63.30	Cerebral infarction due to thrombosis of unspecified cerebral artery
I63.311	Cerebral infarction due to thrombosis of right middle cerebral artery
I63.312	Cerebral infarction due to thrombosis of left middle cerebral artery
I63.313	Cerebral infarction due to thrombosis of bilateral middle cerebral arteries
I63.319	Cerebral infarction due to thrombosis of unspecified middle cerebral artery
I63.321	Cerebral infarction due to thrombosis of right anterior cerebral artery
I63.322	Cerebral infarction due to thrombosis of left anterior cerebral artery
I63.323	Cerebral infarction due to thrombosis of bilateral anterior arteries
I63.329	Cerebral infarction due to thrombosis of unspecified anterior cerebral artery
I63.331	Cerebral infarction due to thrombosis of right posterior cerebral artery
I63.332	Cerebral infarction due to thrombosis of left posterior cerebral artery
I63.333	Cerebral infarction to thrombosis of bilateral posterior arteries
I63.339	Cerebral infarction due to thrombosis of unspecified posterior cerebral artery
I63.341	Cerebral infarction due to thrombosis of right cerebellar artery
I63.342	Cerebral infarction due to thrombosis of left cerebellar artery
I63.343	Cerebral infarction to thrombosis of bilateral cerebellar arteries
I63.349	Cerebral infarction due to thrombosis of unspecified cerebellar artery
I63.39	Cerebral infarction due to thrombosis of other cerebral artery
I63.40	Cerebral infarction due to embolism of unspecified cerebral artery
I63.411	Cerebral infarction due to embolism of right middle cerebral artery
I63.412	Cerebral infarction due to embolism of left middle cerebral artery

Emergency Department Stroke Registry Indicator Specifications
2018 (07/01/2017 to 06/30/2018 Discharge Dates)
July 2017

I63.413	Cerebral infarction due to embolism of bilateral middle cerebral arteries
I63.419	Cerebral infarction due to embolism of unspecified middle cerebral artery
I63.421	Cerebral infarction due to embolism of right anterior cerebral artery
I63.422	Cerebral infarction due to embolism of left anterior cerebral artery
I63.423	Cerebral infarction due to embolism of bilateral anterior cerebral arteries
I63.429	Cerebral infarction due to embolism of unspecified anterior cerebral artery
I63.431	Cerebral infarction due to embolism of right posterior cerebral artery
I63.432	Cerebral infarction due to embolism of left posterior cerebral artery
I63.433	Cerebral infarction due to embolism of bilateral posterior cerebral arteries
I63.439	Cerebral infarction due to embolism of unspecified posterior cerebral artery
I63.441	Cerebral infarction due to embolism of right cerebellar artery
I63.442	Cerebral infarction due to embolism of left cerebellar artery
I63.443	Cerebral infarction due to embolism of bilateral cerebellar arteries
I63.449	Cerebral infarction due to embolism of unspecified cerebellar artery
I63.49	Cerebral infarction due to embolism of other cerebral artery
I63.50	Cerebral infarction due to unspecified occlusion or stenosis of unspecified cerebral artery
I63.511	Cerebral infarction due to unspecified occlusion or stenosis of right middle cerebral artery
I63.512	Cerebral infarction due to unspecified occlusion or stenosis of left middle cerebral artery
I63.513	Cerebral infarction due to unspecified occlusion or stenosis of bilateral middle arteries
I63.519	Cerebral infarction due to unspecified occlusion or stenosis of unspecified middle cerebral artery
I63.521	Cerebral infarction due to unspecified occlusion or stenosis of right anterior cerebral artery
I63.522	Cerebral infarction due to unspecified occlusion or stenosis of left anterior cerebral artery
I63.523	Cerebral infarction due to unspecified occlusion or stenosis of bilateral anterior arteries
I63.529	Cerebral infarction due to unspecified occlusion or stenosis of unspecified anterior cerebral artery

Emergency Department Stroke Registry Indicator Specifications
2018 (07/01/2017 to 06/30/2018 Discharge Dates)
July 2017

I63.531	Cerebral infarction due to unspecified occlusion or stenosis of right posterior cerebral artery
I63.532	Cerebral infarction due to unspecified occlusion or stenosis of left posterior cerebral artery
I63.533	Cerebral infarction due to unspecified occlusion or stenosis of bilateral posterior arteries
I63.539	Cerebral infarction due to unspecified occlusion or stenosis of unspecified posterior cerebral artery
I63.541	Cerebral infarction due to unspecified occlusion or stenosis of right cerebellar artery
I63.542	Cerebral infarction due to unspecified occlusion or stenosis of left cerebellar artery
I63.543	Cerebral infarction due to unspecified occlusion or stenosis of bilateral cerebellar arteries
I63.549	Cerebral infarction due to unspecified occlusion or stenosis of unspecified cerebellar artery
I63.59	Cerebral infarction due to unspecified occlusion or stenosis of other cerebral artery
I63.6	Cerebral infarction due to cerebral venous thrombosis, nonpyogenic
I63.8	Other cerebral infarction
I63.9	Cerebral infarction, unspecified

Table 2: Transient Ischemic Attack ICD-10-CM Diagnosis Codes

ICD-10	Description
G45.0	Vertebro-basilar artery syndrome
G45.1	Carotid artery syndrome (hemispheric)
G45.2	Multiple and bilateral precerebral artery syndromes
G45.8	Other transient cerebral ischemic attacks and related syndromes
G45.9	Transient cerebral ischemic attack, unspecified
G46.0	Middle cerebral artery syndrome
G46.1	Anterior cerebral artery syndrome
G46.2	Posterior cerebral artery syndrome

Table 3: Hemorrhagic Stroke ICD-10-CM Diagnosis Codes

ICD-10	Description
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Emergency Department Stroke Registry Indicator Specifications
2018 (07/01/2017 to 06/30/2018 Discharge Dates)
July 2017

I60.00	Nontraumatic subarachnoid hemorrhage from unspecified carotid siphon and bifurcation
I60.01	Nontraumatic subarachnoid hemorrhage from right carotid siphon and bifurcation
I60.02	Nontraumatic subarachnoid hemorrhage from left carotid siphon and bifurcation
I60.10	Nontraumatic subarachnoid hemorrhage from unspecified middle cerebral artery
I60.11	Nontraumatic subarachnoid hemorrhage from right middle cerebral artery
I60.12	Nontraumatic subarachnoid hemorrhage from left middle cerebral artery
I60.2	Nontraumatic subarachnoid hemorrhage from anterior communicating artery
I60.30	Nontraumatic subarachnoid hemorrhage from unspecified posterior communicating artery
I60.31	Nontraumatic subarachnoid hemorrhage from right posterior communicating artery
I60.32	Nontraumatic subarachnoid hemorrhage from left posterior communicating artery
I60.4	Nontraumatic subarachnoid hemorrhage from basilar artery
I60.50	Nontraumatic subarachnoid hemorrhage from unspecified vertebral artery
I60.51	Nontraumatic subarachnoid hemorrhage from right vertebral artery
I60.52	Nontraumatic subarachnoid hemorrhage from left vertebral artery
I60.6	Nontraumatic subarachnoid hemorrhage from other intracranial arteries
I60.7	Nontraumatic subarachnoid hemorrhage from unspecified intracranial artery
I60.8	Other nontraumatic subarachnoid hemorrhage
I60.9	Nontraumatic subarachnoid hemorrhage, unspecified
I61.0	Nontraumatic intracerebral hemorrhage in hemisphere, subcortical
I61.1	Nontraumatic intracerebral hemorrhage in hemisphere, cortical
I61.2	Nontraumatic intracerebral hemorrhage in hemisphere, unspecified
I61.3	Nontraumatic intracerebral hemorrhage in brain stem
I61.4	Nontraumatic intracerebral hemorrhage in cerebellum
I61.5	Nontraumatic intracerebral hemorrhage, intraventricular
I61.6	Nontraumatic intracerebral hemorrhage, multiple localized
I61.8	Other nontraumatic intracerebral hemorrhage
I61.9	Nontraumatic intracerebral hemorrhage, unspecified
I62.9	Nontraumatic intracranial hemorrhage, unspecified