

Emergency Department Stroke Registry Indicator Specifications
2025 Report Year/2024 Measurement Year
07/01/2024 to 6/30/2025 Discharge Dates

Topic	Description
Measure	Time to Intravenous Thrombolytic Therapy
Description	Indicator used to assess the percentage of adult ischemic stroke patients for which intravenous thrombolytic therapy was administered within 60 minutes following their arrival to the hospital.
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 EHR system or abstracted through medical record review.
Rationale	Appropriate, rapid administration of thrombolytic therapy within 4.5 hours of symptom onset has shown to improve outcomes for ischemic stroke patients. Tracking the time to IV thrombolytics administration can lead to streamlining of keycare processes for acute ischemic stroke patients. IV thrombolytics should be administered within 60 minutes of arrival.
Measurement Period	Data will be submitted on a quarterly basis on the following schedule for the 12 month measurement period: <ul style="list-style-type: none"> • Discharge dates: Third Quarter, 2024: July 1 – September 30 <ul style="list-style-type: none"> ○ Data submission deadline: February 15, 2025 • Discharge dates: Fourth Quarter, 2024: October 1 – December 31 <ul style="list-style-type: none"> ○ Data submission deadline: May 15, 2025 • Discharge dates: First Quarter, 2025: January 1 – March 31 <ul style="list-style-type: none"> ○ Data submission deadline: August 15, 2025 • Discharge dates: Second Quarter, 2025: April 1 – June 30 <ul style="list-style-type: none"> ○ Data submission deadline: November 15, 2025
Denominator	<ul style="list-style-type: none"> • Patients with documented final clinical diagnosis of ischemic stroke, or whose ED visit was assigned a principal ICD-10-CM diagnosis code listed in Table 1 for ischemic stroke. <p style="margin-left: 20px;">AND</p> <ul style="list-style-type: none"> • Patients who received IV thrombolytics at the hospital.

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Exclusions	<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 IV thrombolytics administration are missing or not documented. • Patients that receive IV thrombolytics greater than 4.5 hours after time last known to be well. • Patients with a documented eligibility or medical reason for delay in treatment (if IV thrombolytics is initiated greater than 60 minutes after arrival).
Numerator	All ischemic stroke patients who receive IV thrombolytics at the reporting hospital within 60 minutes or less from time of arrival.
Suggested Data Sources	ED records, intake/face sheet/hospital admissions records, progress notes, acute physician notes, diagnostic reports, radiology notes.

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

ICD-10	Description
I63.00	Cerebral infarction due to thrombosis of unspecified precerebral artery
I63.011	Cerebral infarction due to thrombosis of right vertebral artery
I63.012	Cerebral infarction due to thrombosis of left vertebral artery
I63.013	Cerebral infarction due to thrombosis of bilateral vertebral arteries
I63.019	Cerebral infarction due to thrombosis of unspecified vertebral artery

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ICD-10	Description
I63.02	Cerebral infarction due to thrombosis of basilar artery
I63.031	Cerebral infarction due to thrombosis of right carotid artery
I63.032	Cerebral infarction due to thrombosis of left carotid artery
I63.033	Cerebral infarction due to thrombosis of bilateral carotid arteries
I63.039	Cerebral infarction due to thrombosis of unspecified carotid artery
I63.09	Cerebral infarction due to thrombosis of other precerebral artery
I63.10	Cerebral infarction due to embolism of unspecified precerebral artery
I63.111	Cerebral infarction due to embolism of right vertebral artery
I63.112	Cerebral infarction due to embolism of left vertebral artery
I63.113	Cerebral infarction due to embolism of bilateral vertebral arteries
I63.119	Cerebral infarction due to embolism of unspecified vertebral artery
I63.12	Cerebral infarction due to embolism of basilar artery
I63.131	Cerebral infarction due to embolism of right carotid artery
I63.132	Cerebral infarction due to embolism of left carotid artery
I63.133	Cerebral infarction due to embolism of bilateral carotid arteries
I63.139	Cerebral infarction due to embolism of unspecified carotid artery

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ICD-10	Description
I63.19	Cerebral infarction due to embolism of other precerebral artery
I63.20	Cerebral infarction due to unspecified occlusion or stenosis of unspecified precerebral arteries
I63.211	Cerebral infarction due to unspecified occlusion or stenosis of right vertebral arteries
I63.212	Cerebral infarction due to unspecified occlusion or stenosis of left vertebral arteries
I63.213	Cerebral infarction due to unspecified occlusion or stenosis of bilateral vertebral arteries
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

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ICD-10	Description
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

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I63.411	Cerebral infarction due to embolism of right middle cerebral artery
I63.412	Cerebral infarction due to embolism of left middle cerebral artery
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

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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
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

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ICD-10	Description
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
I63.81	Other cerebral infarction due to occlusion or stenosis of a small artery
I63.89	Other cerebral infarction
I63.9	Cerebral infarction, unspecified