GET WITH THE GUIDELINES-STROKE UPDATE

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OVERVIEW

STROKE SYSTEM OF CARE PLAN HIGHLIGHT GWTG-STROKE MEASURES HIGHLIGHT PARTICIPATING HOSPITALS REVIEW GWTG-STROKE DATA (2010-2017) SHARE GWTG-STROKE DATA OPPORTUNITIES



NORTH CAROLINA STROKE SYSTEM OF CARE PLAN (2010)

PREVENTION & PUBLIC AWARENESS

PRE-HOSPITAL CARE

ACUTE/SUBACUTE CARE

RECOVERY/TRANSITIONS OF CARE

TELESTROKE





Achievement Measures:

IV rt-PA arrive by 2 hour, treat by 3 hour

Early antithrombotics

VTE prophylaxis

Antithrombotics

Anticoagulation for AFib/Aflutter

Smoking cessation

Statin at discharge

Quality Measures:

Dysphagia screen

Time to intravenous thrombolytic therapy (60 min)

IV rt-PA arrive by 3.5 hour, treat by 4.5 hour

NIHSS reported

Stroke education

Rehabilitation considered

LDL documented

Intensive Statin Therapy



Smoking cessation Anticoagulation for AFib/Flutter Statin prescribed at discharge Stroke education Rehabilitation considered % Door to $CT \leq 25 \min$ **Pre-notification** Reasons for delay beyond 60 min Reasons for no IV rt-PA

MER for Eligible Patients with Ischemic Stroke

Door to start of revascularization in 120 min

Door to Puncture Times

90-Day Modified Rankin Scores

Diabetes teaching

Modified Rankin at discharge

PARTICIPATING HOSPITALS

- Over 2,700 hospitals participate in one or more of our quality improvement programs
- Get With The Guidelines-Stroke contains over 5 Million patient records

	2010	2018
# of NC Hospitals Participating in GWTG-Stroke	25	68
# of NC Hospitals with some level of stroke certification	23	50





HIGHLIGHTED GOALS FROM THE STROKE SYSTEM OF CARE PLAN

- Increase advanced notification by ems
- Decrease time to intravenous thrombolytic therapy
- Identify stroke centers and stroke capable hospitals

REVIEWED ASSOCIATED GWTG-STROKE MEASURES

- Arrival Mode (2010, 2017)
- Advanced notification for patients transported by EMS (2010-2017)
- IV rt-PA Arrive by 2 Hour, Treat by 3 Hour (2010-2017)
- Time to Thrombolytic Therapy 60 min (2010-2017)
- Time to Thrombolytic Therapy 45 min (2015-2017)
- Time to Intravenous Thrombolytic Therapy Times (Median) (2010-2017)



- Phase I launched in 2009 to increase the number of eligible ischemic stroke patients receiving IV rt-PA in 60 minutes or less to 50% or more.
- Phase II launched in 2015 to increase the number of eligible ischemic stroke patients receiving IV rt-PA in 45 minutes or less to 50% or more.
- Phase III is coming soon!



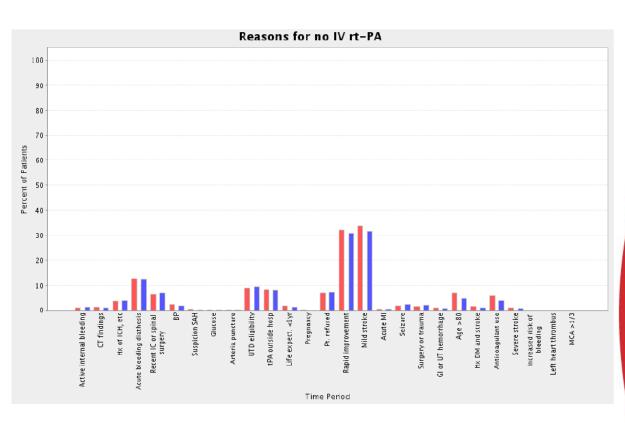


In 2018, of those 68 hospitals participating in Get With The Guidelines-Stroke:

- 37 hospitals met the goal of time to thrombolytic therapy in ≤ 60 min for at least 50% of patients
- 27 hospitals met the goal of ≤ 60 min for at least 75% of patients
- 17 hospitals met the goal of ≤ 60 min for at least 75% of patients and ≤ 45 min in at least 50% of patients



- Unable to Determine Eligibility
- Rapid Improvement
- Mild Stroke



3.5. IV Alteplase (Continued)	COR	LOE	New, Revised, or Unchanged
3. For otherwise eligible patients with mild stroke presenting in the 3- to 4.5-hour window, treatment with IV alteplase may be reasonable. Treatment risks should be weighed against possible benefits.		B-NR	New recommendation.

GOAL: IDENTIFY STROKE CENTERS AND STROKE CAPABLE HOSPITALS

Certified Stroke Centers in North Carolina

Certification	# Hospitals 2010	# Hospitals 2018**
Acute Stroke Ready Hospital (launched in 2015)	0	5
Primary Stroke Center	23*	37
Thrombectomy-Capable Stroke Center (launched in 2018)	0	0
Comprehensive Stroke Center (launched in 2013)	0	8

* Source: A Summary of Primary Stroke Center Policy in the United States, CDC: https://www.cdc.gov/dhdsp/pubs/docs/Primary_Stroke_Center_Report.pdf ** Data as of 8/10/2018. Sources: The Joint Commission, DNV.



AHA/TJC STROKE CERTIFICATION PROGRAM COMPARISON



The Joint Commission

Stroke Certification Programs – Program Concept Comparison

Program Concept	ASRH	PSC	TSC	CSC
Eligibility	General eligibility requirements; use of a standardized method of delivering care centered on evidence-based guidelines for stroke care.	General eligibility requirements; use of a standardized method of delivering care centered on evidence-based quidelines for stroke care.	General eligibility requirements; use of a standardized method of delivering care centered on evidence-based quidelines for stroke care. Organization must have performed mechanical thrombectomy and post-procedure care for at least 15 patients with ischemic stroke over the past 12 months (or 30 over past 24 months). Neurointerventionists who routinely take call to perform mechanical thrombectomy must: -Be CAST certified; <u>OR</u> -Completed ACGME/equivalent residency in neurosurgery/ineurology/radiology; -Completed ACGME/CAST/UCNS/equivalent stroke/neurocritical care/neuroradiology fellowship; -Performed 15 mechanical thrombectomies over the past 12 months (or 30 over past 24 months) (procedures performed at hospitals other than the one applying for TSC certification can be included)	General eliqibility requirements; use of a standardized method of delivering care centered on evidence-based quidelines for stroke care. Treatment of 20 SAH caused by aneurysm annually (40 over 2 years) Capable of treating aneurysms by performing 15 endovascular colling or microsurgical clipping procedures annually (30 over 2 years) Administering IV thrombolytic therapy 25 times annually (50 times over 2 years) "CSCs will be required to meet a minimum mechanical thrombectomy volume for eliqibility in the future"
Program Medical Director	Sufficient knowledge of cerebrovascular disease	Sufficient knowledge of cerebrovascular disease	Neurology background with ability to provide clinical and administrative guidance to program	Has extensive expertise; available 24/7
Acute Stroke Team	Available 24/7, at bedside within 15 minutes	Available 24/7, at bedside within 15 minutes	Available 24/7, at bedside within 15 minutes	Available 24/7, at bedside within 15 minutes
Emergency Medical Services Collaboration	Access to protocols used by EMS	Access to protocols used by EMS	Access to protocols used by EMS, routing plans; records from transfer	Access to protocols used by EMS, routing plans records from transfer
Stroke Unit	No designated beds for acute care of stroke patients	Stroke unit or designated beds for the acute care of stroke patients	Dedicated neuro intensive care beds for complex stroke patients available 24/7; on-site critical care coverage 24/7	Dedicated neuro intensive care beds for complex stroke patients available 24/7; on-site neurointensivist coverage 24/7
Initial Assessment of Patient	Emergency Department physician, nurse practitioner, or physician assistant	Emergency Department physician	Emergency Department physician	Emergency Department physician
Diagnostic Testing Capability	CT, labs 24/7 (MRI 24/7 if used)	CT, MRI (If used), labs 24/7; CTA and MRA (to guide treatment decisions), at least one modality for cardiac imaging when necessary	CT, MRI, labs, CTA, MRA, catheter angiography 24/7; other cranial and carotid duplex ultrasound, TEE as indicated	CT, MRI, labs, CTA, MRA, catheter anglography 24/7; other cranial and carotid duplex ultrasound, TEE, TTE as indicated
Neurologist Accessibility	24/7 via In person or telemedicine	24/7 via in person or telemedicine	24/7 via in person or telemedicine; written call schedule for attending physicians providing availability 24/7	Meets concurrently emergent needs of multiple complex stroke patients; Written call schedule for attending physicians providing availability 24/7

This grid is only a comparison of program requirements and should not be relied upon in lieu of reading a program manual. © Copyright 2018 The Joint Commission. The Stroke Certification Programs – Program Concept Comparison is used by American Heart Association/American Stroke Association with permission. Current as of 01/05/18





Telestroke Data Elements Referring / Receiving Hospital Details Pre-Hospital Data Elements Benchmarking



- WAS TELESTROKE CONSULTATION PERFORMED? (NEW OPTIONS)
 - Yes, the patient received telestroke consultation from my hospital staff when the patient was located at another hospital
 - Yes, the patient received telestroke consultation from someone other than my staff when the patient was located at another hospital
 - Yes, the patient received telestroke consultation from a remotely located expert when the patient was located at my hospital
- IF YES, SELECT DELIVERY METHOD:
 - Interactive Video
 - Teleradiology
 - Telephone Call

IF YES, ENTER DATE / TIME OF FIRST CONTACT WITH TELESTROKE PROVIDER

NEW! CAPTURE REFERRING AND RECEIVING HOSPITAL DETAILS

- IF PATIENT TRANSFERRED FROM YOUR ED TO ANOTHER HOSPITAL, SPECIFY NAME:
- REASON WHY PATIENT TRANSFERRED:

Admin Clinical Codes Admission Hospitalization Advanced Stroke Care Discharge Optional Core Measures Measures Special Initiatives Historic	To populate field:
Not Admitted: No, patient admitted as inpatient Transferred from your ED to another acute care hospital	Patients Download Reports Data Upload My Account
Reason Not Admitted: © Transferred from ED to home or other location that is not an acute care hospital © Left from ED AMA © Died in ED © Discharged from observation status without an inpatient admission © Other © Cher © Discharged from CD and Company acute care hospital	Account Information User Information View your user information. Organization Information View your organization's information. Change Pascword Change your current password. Manage Code Lists
If patient transferred from your ED to another hospital, specify hospital name: 6120030-Concord Hospital Hospital Not On The List Hospital Not Documented	Nanage site-maintained code lists.
Select reason(s) for why patient transferred Post Management of IV tPA (e.g. Drip and Ship) Evaluation for Endowsscular thrombectomy Advanced stroke care (e.g., Neurocritical care, surgical or other time critical therapy) Patient/family request Other advanced care (not stroke related) Not documented 	
Discharge Date:	
For patients discharged on or after 04/01/2011: What was the patient's discharge disposition on the day of discharge?	
If Other Health Care	
Admin Clinical Codes Admission Hospitalization Advanced Stroke Care Discharge Optional Core Measures Measures Special Initiatives Historic	

15

NEW! CAPTURE REFERRING AND RECEIVING HOSPITAL DETAILS

- REFERRING HOSPITAL DISCHARGE DATE/TIME
- IF TRANSFER FROM ANOTHER HOSPITAL, SPECIFY NAME:
- REFERRING HOSPITAL ARRIVAL DATE/TIME
- IF PATIENT TRANSFERRED, REASON WHY?

Admin Clinical Codes	Admission	Hospitalization	Advanced Stroke Care	Discharge	Optional	Core Measures	Measures	Special Initiati	Historic
Arrival & Admission In	formation								
During this hospital sta the same condition as	y, was the patie	nt enrolled in a clinic ware being studied	cal trial in which patients wit	th 🔾 Yes 🖲	No©				
Was this patient admit intervention?				🔿 Yes 🔘	No©				
Patient location when stroke symptoms discovered:	Not in a healthc	are setting	~						
How patient arrived at your hospital	O EMS from h	iome/scene 🔿 Mobi iown 😨	le Stroke Unit) Private tra	ansport/taxi/otl	her from hom	e/scene 🖲 Transfer	from other he	spital	
Referring hospital discharg	e date/time		MM/20/////HH2+MI V 11/30/2017 13/17 NM DD YYYY HH ME				_		
If transfer from another ho	ospital, specify h	ospital name	6110610-York Hospital Hospital Not On The Lis Hospital Not Document			~			
Referring hospital arrival d	ate/time		MM/DD/YYYY HH2+M V 11/30/2017 14:00						Added 4
			Evaluation for IV tPA up Post Management of IV Evaluation for Endovese	tPA (e.g. Drip					
If patient transferred to yo	ur hospital, sele	ct transfer reason(s)	Advanced stroke care (ical or other time cr	itical therapy)		
			Other advanced care (n	ot stroke relate	ed)				
			Not documented						

16



- 1. DOOR-IN-DOOR-OUT TIMES AT FIRST HOSPITAL PRIOR TO TRANSFER FOR ACUTE THERAPY (GOAL ≤ 60 MINUTES)
- 2. DOCUMENTATION OF TIME LAST KNOWN WELL OR TIME OF DISCOVERY OF STROKE SYMPTOMS
- 3. EVALUATION OF BLOOD GLUCOSE
- 4. IDENTIFICATION OF SUSPECTED STROKES
- 5. ON-SCENE TIMES FOR SUSPECTED STROKE (GOAL ≤ 15 MINUTES)
- 6. STROKE SCREEN PERFORMED AND REPORTED
- 7. STROKE SEVERITY SCREEN PERFORMED AND REPORTED
- 8. TIMES FROM FIRST MEDICAL CONTACT TO THROMBECTOMY FOR ACUTE ISCHEMIC STROKE

IN THE FUTURE: STREAMLINING EMS DATA CAPTURE

GWTG Data Element	NEMSIS v3 Element
Date/Time call received by responding EMS agency	eTimes.03 (Unit Notified by Dispatch Date/Time)
First Medical Contact On-Scene	eTimes.07 (EMS Arrived at Patient Date/Time)
Dispatched as suspected stroke	eDispatch.01 (Complaint Reported by Dispatch) (code 2301067)
Dispatch Unit On-Scene Arrival	eTimes.06 (EMS Unit Arrived On-Scene)
On-Scene Departure	eTimes.09 (EMS Unit Left Scene Date/Time)
Blood Glucose level (mg/dL)	eVitals.18 (Blood Glucose Value)
Last Known Well as Documented by EMS	eSituation.18 (Date/Time last Known Well)
Date/Time pre-notification provided to hospital	eDisposition.25 (Date/Time of Destination Prearrival Alert or Activation)





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NEXT STEPS

FOR GWTG HOSPITALS:

- ACTIVATE THE TELESTROKE DATA ELEMENTS
- ACTIVATE THE PRE-HOSPITAL DATA ELEMENTS
- SET UP BENCHMARKS FOR YOUR REGION, STROKE SYSTEM OF CARE

FOR NON-GWTG HOSPITALS: LET'S SCHEDULE SOME TIME TO TALK ABOUT HOW GWTG CAN SUPPORT YOUR HOSPITAL AND STROKE SYSTEM OF CARE EFFORTS

FOR THE STATE:

- WHICH DATA POINTS ARE MOST HELPFUL, HOW FREQUENTLY DO WE WANT TO LOOK AT THE DATA AND WHICH MEASURES?
- ARE THERE DATA ELEMENTS THAT WE WANT BUT DO NOT CURRENTLY SEE IN GWTG?





SAVE THE DATE: APRIL 22-26, 2019 IN RALEIGH!

CALL FOR PRESENTERS FOR THE 2019 AHA MID-ATLANTIC HEART & STROKE QUALITY SUMMIT. SUBMIT BY 8/31!

HTTPS://MIDATLANTIC.HEART.ORG/QUALITYSUMMIT/



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