

GWTG – Stroke Updates

Release Date: August 24th, 2024
Impacted Users: All Users

Summary of changes in this release:

Enhancements

- **Stroke Form Updates**
 - New response options for 'Previously known medical history'
 - Update to label for "Substance Use Disorder"
 - Additional medications added for 'Antihyperglycemic medication' (at discharge)
 - Retiring of 'Method used to obtain NIHSS'
 - Retiring of 'Is there documentation that the patient was on a lipid-lowering medication prior to hospital arrival?'
 - 'Antihypertensive Prescribed at Discharge' added for sites with the Limited Form plus ICH Layer
 - Validation updates on NIHSS score prior to and after reperfusion therapy
 - Validation updates on 'mLAPSS criteria met' for sites with the LA EMS Layer
- **Configurable Measure Report Updates**
 - Added access to the Additional PSC Measures bundle for site with the legacy PSC Layer without a TJC Layer
 - New groups added to AHASTR58: Medical History
- **Additional Report Updates**
 - Updated form status in the List of Patients Expected to Have a Follow-Up Report for patients that expire after discharge

Additional Updates

- **Coding Instructions Manual Updates**
 - Coding instruction updates as summarized in the Coding Instruction manual's "Summary of Changes"
- **Measure Description Updates**
 - Descriptive Measures Description document updated

Details related to the above updates:

Stroke Form Updates:

New response options for 'Previously known medical history'

The following response options were added to 'Previously known medical history':

- Cancer
- Postpartum (6 weeks to 12 months postpartum)

A new element, 'Currently pregnant?' will show when the existing "Current pregnancy (up to 6 weeks postpartum)" response is selected.

Before:

Previously known medical history of: ⓘ	<input type="checkbox"/> Atrial Fib/Flutter	<input type="checkbox"/> CAD/prior MI
	<input type="checkbox"/> Carotid Stenosis	<input checked="" type="checkbox"/> Current pregnancy (up to 6 weeks post partum)
	<input type="checkbox"/> DVT/PE	<input type="checkbox"/> Dementia
	<input type="checkbox"/> Depression	<input type="checkbox"/> Diabetes Mellitus
	<input type="checkbox"/> Drugs/Alcohol Abuse	<input type="checkbox"/> Dyslipidemia
	<input type="checkbox"/> E-Cigarette Use (Vaping)	<input type="checkbox"/> Familial hypercholesterolemia
	<input type="checkbox"/> Family History of Stroke	<input type="checkbox"/> HF
	<input type="checkbox"/> HRT	<input type="checkbox"/> HX of Emerging Infectious Disease
	<input type="checkbox"/> Hypertension	<input type="checkbox"/> Migraine
	<input type="checkbox"/> Obesity/Overweight	<input type="checkbox"/> Previous Stroke
	<input type="checkbox"/> Previous TIA	<input type="checkbox"/> Prosthetic Heart Valve
	<input type="checkbox"/> PVD	<input type="checkbox"/> Renal insufficiency - chronic
	<input type="checkbox"/> Sickle Cell	<input type="checkbox"/> Sleep Apnea
	<input type="checkbox"/> Smoker	

After:

Previously known medical history of: ⓘ	<input type="checkbox"/> Atrial Fib/Flutter	<input type="checkbox"/> CAD/prior MI
	<input checked="" type="checkbox"/> Cancer	<input type="checkbox"/> Carotid Stenosis
	<input checked="" type="checkbox"/> Current pregnancy (up to 6 weeks postpartum)	<input type="checkbox"/> DVT/PE
	<input type="checkbox"/> Dementia	<input type="checkbox"/> Depression
	<input type="checkbox"/> Diabetes Mellitus	<input type="checkbox"/> Drugs/Alcohol Abuse
	<input type="checkbox"/> Dyslipidemia	<input type="checkbox"/> E-Cigarette Use (Vaping)
	<input type="checkbox"/> Familial hypercholesterolemia	<input type="checkbox"/> Family History of Stroke
	<input type="checkbox"/> HF	<input type="checkbox"/> HRT
	<input type="checkbox"/> HX of Emerging Infectious Disease	<input type="checkbox"/> Hypertension
	<input type="checkbox"/> Migraine	<input type="checkbox"/> Obesity/Overweight
	<input type="checkbox"/> Postpartum (6 weeks to 12 months postpartum)	<input type="checkbox"/> Previous Stroke
	<input type="checkbox"/> Previous TIA	<input type="checkbox"/> Prosthetic Heart Valve
	<input type="checkbox"/> PVD	<input type="checkbox"/> Renal insufficiency - chronic
	<input type="checkbox"/> Sickle Cell	<input type="checkbox"/> Sleep Apnea
	<input type="checkbox"/> Smoker	

Currently pregnant? ⓘ Yes, currently pregnant No, postpartum up to 6 weeks

Update to label for "Substance Use Disorder"

For the data element 'If yes, identify the areas of unmet social need' a response option label was updated from "Substance Use" to "Substance Use Disorder".



Before:

During this admission, was a standardized health related social needs form or assessment completed? Yes No/ND

If yes, identify the areas of unmet social need. (select all that apply)

<input type="checkbox"/> None of the areas of unmet social need listed	<input type="checkbox"/> Education
<input type="checkbox"/> Employment	<input type="checkbox"/> Financial Strain
<input type="checkbox"/> Food	<input type="checkbox"/> Living Situation/Housing
<input type="checkbox"/> Mental Health	<input type="checkbox"/> Personal Safety
<input type="checkbox"/> Substance Use	<input type="checkbox"/> Transportation Barriers
<input type="checkbox"/> Utilities	

After:

During this admission, was a standardized health related social needs form or assessment completed? Yes No/ND

If yes, identify the areas of unmet social need. (select all that apply)

<input type="checkbox"/> None of the areas of unmet social need listed	<input type="checkbox"/> Education
<input type="checkbox"/> Employment	<input type="checkbox"/> Financial Strain
<input type="checkbox"/> Food	<input type="checkbox"/> Living Situation/Housing
<input type="checkbox"/> Mental Health	<input type="checkbox"/> Personal Safety
<input type="checkbox"/> Substance Use Disorder	<input type="checkbox"/> Transportation Barriers
<input type="checkbox"/> Utilities	

Additional medications added for 'Antihyperglycemic medication' (at discharge)

The following medications were added as options for 'Antihyperglycemic medication' (at discharge):

- tirzepatide (GLP-1 receptor agonist)
- bexagliflozin (SGLT2 Inhibitor)
- sotagliflozin (SGLT2 Inhibitor)

Antihyperglycemic Medication(s) Prescribed at Discharge: Yes No NC

Antihyperglycemic Class (1)

Antihyperglycemic Medication (1)

Antihyperglycemic Class (2)

Follow-up appointment scheduled for diabetes management?

scribed any antidepressant class of medication at discharge?

dulaglutide
 exenatide
 exenatide extended release
 liraglutide
 lixisenatide
 semaglutide
 tirzepatide

Antihyperglycemic Medication(s) Prescribed at Discharge: Yes No NC

Antihyperglycemic Class (1)

Antihyperglycemic Medication (1)

Antihyperglycemic Class (2)

Follow-up appointment scheduled for diabetes management?

scribed any antidepressant class of medication at discharge?

bexagliflozin
 canagliflozin
 dapagliflozin
 empagliflozin
 ertugliflozin
 sotagliflozin

Retiring of 'Method used to obtain NIHSS'

'Method used to obtain NIHSS' has been retired. The element is no longer necessary since all forms use 'Is there documentation that an initial NIHSS score was done at this hospital', and the requirement for selecting "Yes" to that element is that the NIHSS is actual (not estimated).

The element will not be available on records created after the release. Existing abstraction will be maintained.

Before:

^Is there documentation that an initial NIHSS score was done at this hospital? Yes No

Method used to obtain NIHSS: Actual Estimated from record ND

^What is the date and time that the NIHSS score was first performed at this hospital?

MM / DD / YYYY HH : MM

NIHSS Total Score

After:

^Is there documentation that an initial NIHSS score was done at this hospital? Yes No

^What is the date and time that the NIHSS score was first performed at this hospital?

MM / DD / YYYY HH : MM

NIHSS Total Score

Retiring of 'Is there documentation that the patient was on a lipid-lowering medication prior to hospital arrival?'

'Is there documentation that the patient was on a lipid-lowering medication prior to hospital arrival' (Certification Tab) has been retired. The element is no longer required for Joint Commission Measure Specifications.

The element will not be available on records created after the release. Existing abstraction will be maintained.

Before:

History & Last Known Well

Was there physician/APN/PA documentation of a diagnosis, signed ECG tracing, or a history of ANY atrial fibrillation/flutter in the medical record? Yes No

Is there documentation that the patient was on a lipid-lowering medication prior to hospital arrival? Yes No

Is there documentation that the date and time of last known well was witnessed or reported? Yes No

After:

History & Last Known Well

Was there physician/APN/PA documentation of a diagnosis, signed ECG tracing, or a history of ANY atrial fibrillation/flutter in the medical record? Yes No

Is there documentation that the date and time of last known well was witnessed or reported? Yes No

'Antihypertensive Prescribed at Discharge' added for sites with the Limited Form plus ICH Layer

'Antihypertensive Prescribed at Discharge' has been added to the ICH Layer. This will impact sites configured with the Limited Form plus ICH Layer since this layer combination previously did not have access to this data element. The element is used in numerator logic for "AHASTR159: Blood Pressure Treatment at Discharge".

Before:

Last Name: Element Group(s): Diabetes | ASCVD Stroke | PH | ICH | Stroke Rural | Stroke Limited

Forms: Stroke Form

Persistent or Paroxysmal Atrial Fibrillation/Flutter: Yes No

Cholesterol Reducer Prescribed at Discharge (Select all that apply): None prescribed/ND
 None - contraindicated
 Absorption inhibitor
 Fibrate
 Niacin

After:

Last Name: Element Group(s): Diabetes | PH | ICH | ASCVD Stroke | Stroke Rural | Stroke Limited

Forms: Stroke Form: 08/12/2024

Persistent or Paroxysmal Atrial Fibrillation/Flutter: Yes No

Antihypertensive Prescribed at Discharge (Select all that apply): None prescribed/ND
 None - contraindicated
 ACE Inhibitors
 ARB
 Beta Blockers
 Ca++ Channel Blockers
 Diuretics
 Other anti-hypertensive med

Cholesterol Reducer Prescribed at Discharge (Select all that apply): None prescribed/ND
 None - contraindicated
 Absorption inhibitor

Validation Messages:

- Please enter a value for Discharge Blood Pressure (Measurement closest to discharge) Diastolic. QSTRK0232
- Discharge Diastolic Blood Pressure is missing. QSTRK0230
- Antithrombotic Medication(s) at Discharge:
 - Antithrombotic medication(s) at discharge? is missing. QSTRK0234
- Persistent or Paroxysmal Atrial Fibrillation/Flutter:
 - 'Persistent or paroxysmal Atrial Fibrillation/Flutter' is missing. QSTRK0242
- Anti-hypertensive Tx:
 - Anti-hypertensive Tx is missing. QSTRK0245

Validation updates on NIHSS score prior to and after reperfusion therapy

For sites with the EVT Layer, error validations were updated as follows:

- 'NIHSS Score Documented Closest to IV Thrombolytic Initiation' and 'Highest NIHSS Score Documented Within 36 Hours Following IV Thrombolytic Initiation' to only require when 'Complications of IV Thrombolytic Therapy' is "Symptomatic intracranial hemorrhage < 36 hours".
- 'NIHSS Score Documented Closest to IA t-PA or MER Initiation' and 'Highest NIHSS Score Documented Within 36 Hours Following IA t-PA or MER Initiation', to only require when 'Complications of IA Thrombolytic Therapy or MER' = "Symptomatic intracranial hemorrhage with >= 4 point increase in NIHSS < 36 hours since the onset of treatment".

Sites with the CSTK Layer will continue to have additional error validations if needed for CSTK data collection.

Before:

Complications of IA Thrombolytic Therapy or MER Symptomatic intracranial hemorrhage with >= 4 point increase in NIHSS < 36 hours since the onset of treatment
 Access site complication
 Other serious complication
 No serious complications
 UTD

^What is the last NIHSS score documented prior to initiation of IA alteplase or MER at this hospital?

NIHSS Score Documented Closest to IA Alteplase or MER Initiation - UTD

^What is the highest NIHSS score documented within 36 hours following IA alteplase or MER initiation?

Highest NIHSS Score Documented Within 36 Hours Following IA Alteplase or MER Initiation - UTD

Validation Messages:

- Highest NIHSS Score Documented Within 36 Hours Following IA Alteplase or MER Initiation:
 - Please enter a value for Highest NIHSS Score Documented Within 36 Hours Following IA t-PA or MER Initiation. QSTRK0577
- Discharge Blood Pressure (Measurement closest to discharge) Systolic:
 - Discharge Systolic Blood Pressure is missing. QSTRK0577



After:

Complications of IA Thrombolytic Therapy or MER [?]

- Symptomatic intracranial hemorrhage with \geq 4 point increase in NIHSS < 36 hours since the onset of treatment
- Access site complication
- Other serious complication
- No serious complications
- UTD

*What is the last NIHSS score documented prior to initiation of IA alteplase or MER at this hospital? [?]

NIHSS Score Documented Closest to IA Alteplase or MER Initiation - UTD [?]

*What is the highest NIHSS score documented within 36 hours following IA alteplase or MER initiation? [?]

Highest NIHSS Score Documented Within 36 Hours Following IA Alteplase or MER Initiation - UTD [?]

Next

▲ HESIT RATE IS MISSING: QSTRK0398

Neuroimaging evidence within 36 hours

★ Please enter a value for Neuroimaging evidence within 36 hours. QSTRK0578

Discharge Blood Pressure (Measurement closest to discharge) Systolic

▲ Discharge Systolic Blood Pressure is missing.

Validation updates on 'mLAPSS criteria met' for sites with the LA EMS Layer

For sites with the LA EMS Layer, 'mLAPSS criteria met' will not show when 'mLAPSS Documented' = "No".

Before:

mLAPSS Documented? [?] Yes No

mLAPSS criteria met: [?] Met Not Met

LAMS performed [?] Yes No ND

After:

mLAPSS Documented? [?] Yes No

LAMS performed [?] Yes No ND

Configurable Measure Report Updates:

Added access to the Additional PSC Measures bundle for site with the legacy PSC Layer without a TJC Layer

For sites with the legacy PSC Layer, access has been added for the Additional PSC Measures. Previously the Additional PSC Measures were only accessible for sites with the PSC Layer and a TJC Layer.

Additional PSC Measures

- AHASTR199: Blood Glucose Level Completed
- AHASTR200: Brain Imaging Time
- AHASTR201: Chest X-ray Time
- AHASTR202: ECG Time
- AHASTR203: ED Physician Assessment Time
- AHASTR204: Lab Tests Time
- AHASTR205: Neurosurgical Services Consulted
- AHASTR206: Stroke Team Activation
- AHASTR207: Stroke Team Arrival

New groups added to AHASTR58: Medical History

"Cancer" and "Postpartum (6 weeks to 12 months postpartum)" have been added as numerator groups in AHASTR58: Medical History.

Benchmark Group	Time Period	Total Patients	Atrial Fib/Flutter Values	CAD/Prior MI Values	Cancer Values	
AHA Demo - Stroke - S...	01/01/2024-12/31/2024	214	15 (7.0%)	18 (8.4%)	1 (0.5%)	5

Hypertension Values	Migraine Values	Obesity/Overweight Values	Postpartum (6 weeks to 12 months postpartum) Values	Previous Stroke Values	
5 (26.2%)	3 (1.4%)	27 (12.6%)	1 (0.5%)	16 (7.5%)	3

Additional Report Updates:

Updated form status in the List of Patients Expected to Have a Follow-Up Report for patients that expire after discharge

The form status in the List of Patients Expected to Have a Follow-Up Report has been updated for cases in which the mRS date is prior to the 75 day follow-up target window due to the mRS score being the date of hospital notification of patient's death. These cases that have a follow-up mRS = 6 (Expired) with an mRS date prior to the 75 day follow-up window will show a follow-up form status of Complete or Incomplete (instead of Pending).

A future release will show the mRS Score and mRS Date in the list for these cases.

Before:

^What is the patient's Modified Rankin Score (mRS) at 90 days post discharge? 0 - The patient has no residual symptoms
 1 - The patient has no significant disability; able to carry out all pre-stroke activities
 2 - The patient has slight disability; unable to carry out all pre-stroke activities but able to look after self without daily help
 3 - The patient has moderate disability; requiring some external help but able to walk without the assistance of another individual
 4 - The patient has moderately severe disability; unable to walk or attend to bodily functions without assistance of another individual
 5 - The patient has severe disability; bedridden, incontinent, requires continuous care
 6 - The patient has expired (during the hospital stay or after discharge from the hospital)
 7 - Unable to contact patient/caregiver
 8 - Modified Rankin Score not performed, OR unable to determine (UTD) from the medical record documentation

^What is the date that the Modified Rankin Score (mRS) was obtained post discharge? / /

List of Patients Expected to Have a Follow-Up Report												
PLEASE NOTE: Only patients in populations 'D' and 'E' require a follow up.												
PATIENT_ID	Admission Date	Discharge Date/Time	Final clinical diagnosis	What was the patient's	IV thrombolytic initiated at this	**Was a mechanical	Earliest Expected	Latest Expected	Follow Up Form Status	Measure Population for	Post Discharge mRS Date	Post Discharge mRS Score
Test_03040	01/13/2023	01/15/2023 02...	Ischemic Stroke	4 Acute Care	No	Yes	03/31/2023	04/30/2023	Pending	D		

After:

^What is the patient's Modified Rankin Score (mRS) at 90 days post discharge? 0 - The patient has no residual symptoms
 1 - The patient has no significant disability; able to carry out all pre-stroke activities
 2 - The patient has slight disability; unable to carry out all pre-stroke activities but able to look after self without daily help
 3 - The patient has moderate disability; requiring some external help but able to walk without the assistance of another individual
 4 - The patient has moderately severe disability; unable to walk or attend to bodily functions without assistance of another individual
 5 - The patient has severe disability; bedridden, incontinent, requires continuous care
 6 - The patient has expired (during the hospital stay or after discharge from the hospital)
 7 - Unable to contact patient/caregiver
 8 - Modified Rankin Score not performed, OR unable to determine (UTD) from the medical record documentation

^What is the date that the Modified Rankin Score (mRS) was obtained post discharge? / /

List of Patients Expected to Have a Follow-Up Report												
PLEASE NOTE: Only patients in populations 'D' and 'E' require a follow up.												
PATIENT_ID	Admission Date	Discharge Date/Time	Final clinical diagnosis	What was the patient's	IV thrombolytic initiated at this	**Was a mechanical	Earliest Expected Hospital Follow Up	Latest Expected Hospital Follow Up	Follow Up Form Status	Measure Population for	Post Discharge mRS Date	Post Discharge mRS Score
Test_03040	01/13/2023	01/15/2023 02...	Ischemic Stroke	4 Acute Care	No	Yes	03/31/2023	04/30/2023	Incomplete	D		