



GWTG – Stroke Registry Programs Patient Management Tool (PMT) Updates

Release Date: April 22, 2020
Impacted Users: All Stroke Users

Summary of Changes in this Release:

Enhancements:

- *E-Cigarette Use (Vaping)* added to Medical History
- Measure Bundle Updates:
 - Achievement Measures Updated
 - Quality Measures Updated
 - Reporting Measures Updated
 - Target Stroke Bundle Updated
- New Reporting Measure – Reasons no IV Alteplase: Mild and Rapidly Improving Stroke Symptoms
- EMS Layer Updates:
 - Added Severity Scales: VAN, MPSS
 - Various measure description and logic updates

Additional Updates:

- New Billing Email Address Added to Homepage
- AHA/ TJC CSC and PSC Benchmark Groups Within the PMT Updated
- COVID-19 Element Additions – Update made on April 8th

Below are the details of the updates:

Medical History Update

- E-Cigarette Use (Vaping) added to Medical History
 - Added to Medical History Histogram Measure
 - Coding Instructions Updated

The screenshot shows a 'Medical History' form with various conditions listed as checkboxes. The 'Previously known medical hx of (Select all that apply):' section is expanded. The checkbox for 'E-Cigarette Use (Vaping)' is checked and highlighted with a red box. Other visible conditions include Atrial Fib/Flutter, Diabetes Mellitus, CAD/prior MI, DVT/PE, Carotid Stenosis, Depression, Dyslipidemia, Hypertension, and many others.

Achievement & Quality Measure Bundle Updates

- Achievement and Quality Measure groups updated to reflect:
 - Removal of *IV Alteplase Arrive by 2 Hour, Treat by 3 Hour* and *Statin Prescribed at Discharge* from Achievement.
 - Addition of *IV Alteplase Arrive by 3.5 Hour, Treat by 4.5 Hour* and *Intensive Statin Therapy* to Achievement
 - Removal of *IV Alteplase Arrive by 3.5 Hour, Treat by 4.5 Hour* and *Intensive Statin Therapy* from Quality

The screenshot shows the 'REPORT 1' interface. On the left, there are categories for 'GWTG Standard Measures', 'GWTG Enhanced Version & Special Initiative Measures', 'GWTG Additional Patient Population Measures', and 'Historic Measures'. A dropdown menu is open, showing a list of measures. The 'Achievement' group is expanded, and 'IV Alteplase Arrive by 3.5 Hour, Treat by 4.5 Hour' is selected and highlighted with a red box. Other measures in the list include 'Early Antithrombotics', 'VTE Prophylaxis', 'Antithrombotics', 'Anticoag for AFib/AF/flutter', 'Intensive Statin Therapy', and 'Smoking Cessation'. The 'Quality' and 'Reporting' groups are also visible.

Reporting Measure Updates

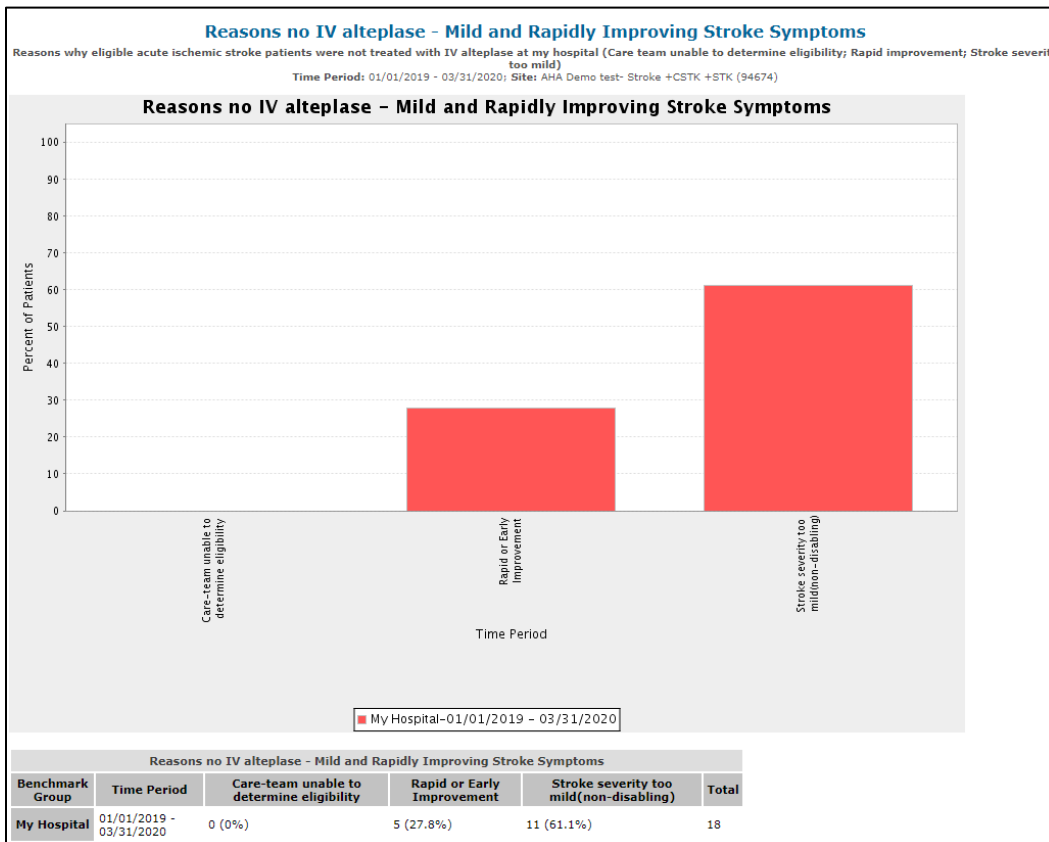
- Addition of IV Alteplase Arrive by 2 Hour, Treat by 3 Hour and Statin Prescribed at Discharge (Removed from Achievement Measures)

REPORT 1

GWTG Standard Measures:	Reasons for no IV Alteplase
GWTG Enhanced Version & Special Initiative Measures:	In-Hospital Mortality
GWTG Additional Patient Population Measures:	Ischemic Stroke Subtypes
Historic Measures:	IV Alteplase Arrive by 2 Hour, Treat by 3 Hour
Format:	IV Alteplase Arrive by 3 Hour, Treat by 3 Hour
	IV Alteplase Arrive by 4.5 Hour, Treat by 4.5 Hour
	Last Known Well To Arrival Times
	Last Known Well To IV Alteplase Times
	LDL 100
	Missing Time Data
	Modified Rankin Scale at Discharge
	Not Admitted
	Pre-notification
	Reasons for delay, IV Alteplase initiation beyond 60 minutes
	Reasons for no IV Alteplase (Hospital-Related)
	Reasons for no IV Alteplase
	Reasons no IV alteplase - Mild and Rapidly Improving Stroke Symptoms
	Smoking Cessation Therapies Prescribed
	Statin Prescribed at Discharge
	Time to Intravenous Thrombolytic Therapy - 30 min
	Time to Intravenous Thrombolytic Therapy - 45 min

Compare to:
(ctrl-click to select multiple)

- Addition of NEW reporting measure – Reasons no IV Alteplase – Mild and Rapidly Improving Stroke Symptoms
 - Patient Record Report output now includes additional columns for the following reasons to allow for better surveillance of this population:
 - Initial NIH
 - Discharge Disposition
 - Ambulatory Status on admission
 - Ambulatory Status on discharge
 - Modified Rankin at discharge



Target Stroke Bundle Updates

- Updated Target Stroke PMT Measure Bundle to include Door to Start of Device (DTD) within 60 minutes for patients transferred from an outside hospital OR within 90 minutes for patients presenting directly (24-hour treatment window)

EMS Form Updates

- Addition of two severity scales: MPSS and VAN

Stroke Screen Outcome: Positive

Indicate the severity scale used? VAN

Positive for LVO?

If severity scale assessment completed, enter total score:

MPSS

VAN

Other

Severity scale used, but tool used is unknown

No severity scale used

Not Documented

- Form Controls updated for new severity scores
 - If MPSS is selected, total score will be required.
 - Total Score will not be required or editable for VAN (field grayed out).
 - If VAN is selected, *Positive for LVO* will become required.
- If No Stroke Screen Tool Used or No Severity Scale Used are selected, Stroke Screen Outcome and Total Score will become grayed out.

Stroke Screen Outcome: Positive

Indicate the severity scale used? MPSS

Positive for LVO? Yes

If severity scale assessment completed, enter total score:

Not Documented

Directed to designated stroke center by

Errors and Warnings

The following **errors** will prevent saving the form as complete:

If severity scale assessment completed, enter total score:

Please enter a value for If severity scale assessment completed, enter total score.
QEMS011

The following **warnings** are informational only

Stroke Screen Outcome: Positive

Indicate the severity scale used? VAN

Positive for LVO?

If severity scale assessment completed, enter total score:

Not Documented

Errors and Warnings

The following **errors** will prevent saving the form as complete:

Positive for LVO?:

Please enter a value for Positive for LVO?.
QEMS023

The following **warnings** are informational only and will not prevent the form from being saved:

Indicate the stroke screen tool used: No stroke screen tool used

Stroke Screen Outcome:

Indicate the severity scale used? No severity scale used

Positive for LVO? No

If severity scale assessment completed, enter total score:

Not Documented

- Stroke Severity Scale field enabled on Special Initiatives Tab when Arrival by EMS is selected on the Admission Tab

EMS Measure Updates

- Documentation of Time Last Known Well – Description Update

REPORT 1	
GWTG Standard Measures:	Select Measure
GWTG Enhanced Version & Special Initiative Measures:	Select Measure
GWTG Additional Patient Population Measures:	Documentation of Time LKW
Historic Measures:	Select Measure
Format:	Bar Chart

Documentation of Time Last Known Well : Percentage of confirmed stroke patients transported to your hospital by EMS and for whom a time "Last Known Well" (LKW) of Stroke Symptoms was documented.

- Stroke Severity Screen Measures – both Distribution and Rate Based – updated to reflect new severity score options added to the tool (MPSS, VAN).
 - Requirements for passing the measure are different for MPSS and VAN. Since VAN does not produce a score, the logic for VAN requires a "Yes" response for *Positive for LVO* in order to be included in the numerator. For MPSS, the logic requires a total score entered for the assessment.

Patient Records Report for measure Stroke Severity Screen Performed and Reported - Distribution
 Distribution of Stroke Severity Screen Performed of confirmed stroke patients transported to your hospital by EMS and for whom a validated regional or national severity screen tool was used.
 Time Period: 01/01/2020 - 01/02/2020; Site: 1 JC-Stroke (38578)
 Patients Included: 2; Patients Excluded: 0

Show filters This report shows all records. 2 of 2

Patient ID	Included in Results?	Category	Age	How patient arrived at your hospital	Final clinical diagnosis related to stroke:	Patient location when stroke symptoms discovered:	Elective Carotid Intervention	Clinical Trial	Indicate the severity scale used?
LIO55731	Included	MPSS	18	EMS from home/scene	Ischemic Stroke				MPSS
LIO55743	Included	VAN	18	EMS from home/scene	Ischemic Stroke				VAN

Patient Records Report for measure Stroke Severity Screen Performed and Reported - Rate Based
 Percentage of confirmed stroke patients transported to your hospital by EMS and for whom a validated regional or national severity screen tool was used with documentation of the outcome.
 Time Period: 03/18/2020 - 03/19/2020; Sites: 1 JC-Stroke (38578)
 Patients Included: 1; Patients Excluded: 0
 Patients in Numerators: 1; % in Numerator: 100.0%

Show filters This report shows all records. 1 of 1

Patient ID	Included in Results?	In Numerator?	Age	Final clinical diagnosis related to stroke:	Clinical Trial	Elective Carotid Intervention	Patient location when stroke symptoms discovered:	How patient arrived at your hospital	Indicate the severity scale used?	If severity scale assessment completed, enter total score:	Positive for LVO?
LIO55744	Included	Yes	27	Ischemic Stroke				Mobile Stroke Unit	VAN		Yes

Patient Records Report for measure Stroke Severity Screen Performed and Reported - Rate Based
 Percentage of confirmed stroke patients transported to your hospital by EMS and for whom a validated regional or national severity screen tool was used with documentation of the outcome.
 Time Period: 03/18/2020 - 03/19/2020; Sites: 1 JC-Stroke (38578)
 Patients Included: 1; Patients Excluded: 0
 Patients in Numerators: 0; % in Numerator: 0.0%

Show filters This report shows all records. 1 of 1

Patient ID	Included in Results?	In Numerator?	Age	Final clinical diagnosis related to stroke:	Clinical Trial	Elective Carotid Intervention	Patient location when stroke symptoms discovered:	How patient arrived at your hospital	Indicate the severity scale used?	If severity scale assessment completed, enter total score:	Positive for LVO?
LIO55744	Included	No	27	Ischemic Stroke				EMS from home/scene	VAN		Not Documented

Patient Records Report for measure Stroke Severity Screen Performed and Reported - Rate Based
 Percentage of confirmed stroke patients transported to your hospital by EMS and for whom a validated regional or national severity screen tool was used with documentation of the outcome.
 Time Period: 03/18/2020 - 03/19/2020; Sites: 1 JC-Stroke (38578)
 Patients Included: 1; Patients Excluded: 0
 Patients in Numerators: 1; % in Numerator: 100.0%

Show filters This report shows all records. 1 of 1

Patient ID	Included in Results?	In Numerator?	Age	Final clinical diagnosis related to stroke:	Clinical Trial	Elective Carotid Intervention	Patient location when stroke symptoms discovered:	How patient arrived at your hospital	Indicate the severity scale used?	If severity scale assessment completed, enter total score:	Positive for LVO?
LIO55744	Included	Yes	27	Ischemic Stroke				Mobile Stroke Unit	MPSS	30	Yes



Other EMS Measure Updates

- **Stroke Screen Performed and Reported and Stroke Screen Performed and Reported – Distributed** – Minor update to the denominator logic
- **Time from First Medical Contact to IV Alteplase** – Minor logic update to include *Cause for IV Alteplase Delay – Eligibility Reasons* in the Exclusion Criteria.
- **Hospital Pre-Notification with Triage Findings** – Minor logic update to include *Advanced Notification by EMS or MSU* in the denominator.

Patient Records Report for measure Hospital Pre-Notification with Triage Findings - Distribution
 Distribution of information provided to the receiving hospitals of stroke transports where prehospital care providers called in a stroke alert prenotification to the receiving hospital.
 Time Period: 02/02/2020 - 02/03/2020; Site: 1 JC-Stroke (38578)
 Patients Included: 1; Patients Excluded: 0

Show filters This report shows all records. 1 of 1

Patient ID	Included in Results?	Category	Age	How patient arrived at your hospital	Final clinical diagnosis related to stroke:	Suspected stroke	Patient location when stroke symptoms discovered;	EMS Unit Arrived on Scene	EMS Unit Left Scene	Elective Carotid Intervention	Clinical Trial	Advanced notification by EMS or MSU?	Additional information provided as part of pre-notification?
L1055733	Included		18	EMS from home/scene	Ischemic Stroke	Yes	Click to sort					Yes	

Additional Updates

- Billing Email Updated on Home Page – AHA.QI.Billing@heart.org
- AHA/ TJC CSC and PSC Benchmark Groups Within the PMT Updated
- COVID-19 Element Updates
 - The below updates were made to the tool on April 8th.

Active bacterial or viral infection at admission or during hospitalization:

Seasonal cold or flu Bacterial infection None/ND

Emerging Infectious Disease

SARS-COV-1

SARS-COV-2 (COVID-19)

MERS

Other infectious respiratory pathogen

New Element



Medical Reason(s):

Hypertension requiring aggressive control with IV medications

Further diagnostic evaluation to confirm stroke for patients with hypoglycemia (blood glucose < 50), seizures, or major metabolic disorders

Management of concomitant emergent/acute conditions such as cardiopulmonary arrest, respiratory failure (requiring intubation)

Investigational or experimental protocol for thrombolysis

Need for additional PPE for suspected/confirmed infectious disease

Specify medical reason:

^^Is a cause(s) for delay in performing mechanical endovascular reperfusion therapy documented?

Yes No

Social/religious

Initial refusal

Care-team unable to determine eligibility

Management of concomitant emergent/acute conditions such as cardiopulmonary arrest, respiratory failure (requiring intubation)

Investigational or experimental protocol for thrombolysis

Additional proximal vascular procedure required prior to first-pass (stent)

^^Reasons for delay (select all that apply):

Need for additional PPE for suspected/confirmed infectious disease

Delay in stroke diagnosis *

In-hospital time delay *

Equipment-related delay *

Need for additional imaging*

Catheter lab not available*

Other * _____