

Stroke Wave I: Quality Measures and Benchmarking

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Presenter



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Data-driven stroke care

Quality
measurement

Benchmarking

Quality
Improvement

Activity Tracker

Pre-Wave Assessment | **Quality Readiness Assessment**

To better understand the current state of quality improvement in your ED please complete the Pre-Wave Quality Readiness Assessment. This tool will help us understand the challenges and obstacles that your ED faces, tailor our toolkit and educational offerings to critical gaps, and provide you with benchmarking information to support your ED leadership.

Activity 1 | **Kick-Off**

Sign the E-QUAL Participation Agreement and upload your list of local clinicians and leaders.

Activity 2 | **Assess Your Capability**

Take the E-QUAL Stroke Capabilities Assessment. This survey of your ED's capacity for stroke care will help you compare your resources to other E-QUAL participating EDs and gain hospital leadership in gaining additional support. All submissions by **Friday, November 13, 2020** will receive a feedback report in 30 days.

Activity 3 | **Benchmark I**

Submit data from **September 2019 to February 2020** for benchmarking local stroke care performance. Data must be submitted by **Friday, October 2, 2020**, in order to receive a benchmark report within one month.

Activity 4 | **Engage Leadership and Commit to Data-Driven Best Practices**

Identify clinician interest in best practices to improve emergency stroke care and gain early sponsorship from hospital and ED leadership. Tell us about your stroke quality improvement plan and your efforts to disseminate benchmarking data.

Activity 5 | **Download and Review Benchmark I Report**

Download your personalized, confidential benchmarking report and review results with both ED and hospital leaders as well as front-line clinicians to develop common goals.

Activity 6 | **Benchmark II**

Submit data from **July 2020 to October 2020** for benchmarking local stroke care performance. Data must be submitted by **Friday, November 13, 2020** in order to receive a benchmark report within one month.

Activity 7 | **Download and Review Benchmark II Report**

Download your personalized, confidential benchmarking report and review results with both ED and hospital leaders as well as front-line clinicians to develop common goals.

Post-Wave Assessment | **Quality Readiness Assessment**

Transforming clinical practice in the ED requires sustained focus and re-assessment. Submit your post-Wave Quality Readiness Assessment to benchmark quality improvement activities, and identify future opportunities for practice improvement.

Benchmark Process - Overview

- Step 1: Identify 25 cases for manual review
 - ▶ ID based on ED diagnostic coding
 - ▶ Query EHR or billing data, OR
 - ▶ Get assistance from your revenue cycle management company
- Step 2: Manually abstract numerator elements from each patient chart
- Step 3: Input elements into rows on the E-QUAL portal.

Stroke Wave 1 Metrics

Blood Pressure

- Antihypertensive Medication Ordered
- Antihypertensive Medication Administered

Coagulopathy

- Hemostatic Medications Ordered

Timeliness

- Door-In Door-Out Time
- CT Performed Time

Risk Stratification

- Baseline Severity Score Performed

Metrics to improve blood pressure control

IV Antihypertensive ordered

Pt w/Hemorrhagic Stroke Dx + HBP

IV Antihypertensive administered + 2 SBP <180

Pt w/Hemorrhagic Stroke Dx + HBP

Metrics to reduce coagulopathy-associated bleeding

Hemostatic Med/Product ordered

Pt w/Hemorrhagic Stroke Dx +
Acquired/Inherited Coagulopathy*

Metrics to improve timely care

Door-to-Departure

Pt w/Hemorrhagic Stroke Dx +
Disposition

Time to Head CT acquisition (min.)

Pt w/Hemorrhagic Stroke Dx

Metrics to improve risk stratification

Baseline Severity Score performed
(GCS, NIHSS, ICH)

Pt w/Hemorrhagic Stroke Dx

Data Submission Details

Data Element	Definition
Exclusion Reasons	A drop-down list of exclusions is available for selection if a case does not meet criteria for performance assessment. No additional data abstraction is required on excluded patients.
SAH	Indicate if the patient had a subarachnoid hemorrhage.
2 SBPs >140	Indicate if the patient had two recorded measurement of systolic blood pressure greater than 140 mmHg.
2 SBPs >180	Indicate if the patient had two recorded measurement of systolic blood pressure greater than 180 mmHg.
IV antihypertensive	Select from the drop-down list the IV antihypertensive medication administered to the patient in the ED. Select None, if no IV antihypertensive medication was administered to the patient in the ED.
Last 2 ED SBPs <180	Indicate if the patient's last two recorded measurement of systolic blood pressure were less than 180 mmHg.
Pt on oral anticoagulant	Select from the drop-down list the oral anticoagulant the patient was prescribed prior to arrival in the ED. Select None, if the patient was not on any oral anticoagulant prior to arrival.
Hemostatic medication administered? (check all that apply)	Select from the drop-down list all hemostatic medications administered to the patient in the ED. Select N/A, if no hemostatic medications were administered to the patient in the ED.

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Exclusion Reasons	A drop-down list of exclusions is available for selection if a case does not meet criteria for performance assessment. No additional data abstraction is required on excluded patients.

Exclusions include:

- Comfort Measures Only orders
- Contraindication to acute BP Tx

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Data Element	Definition
ED Arrival Time (HH:MM)	Input the patient's ED arrival time.
CT performed time (HH:MM)	Input the time when the first head CT was performed on the patient.
ED Departure time (HH:MM)	Input the patient's ED departure time.
ED Disposition	Indicate if the patient ED disposition from a drop down list.

Data Submission Details

Data Element	Definition
Severity Assessment performed in ED? (check all that apply)	Select from the drop-down list all severity assessments performed on the patient in the ED.

Severity Assessment options include:

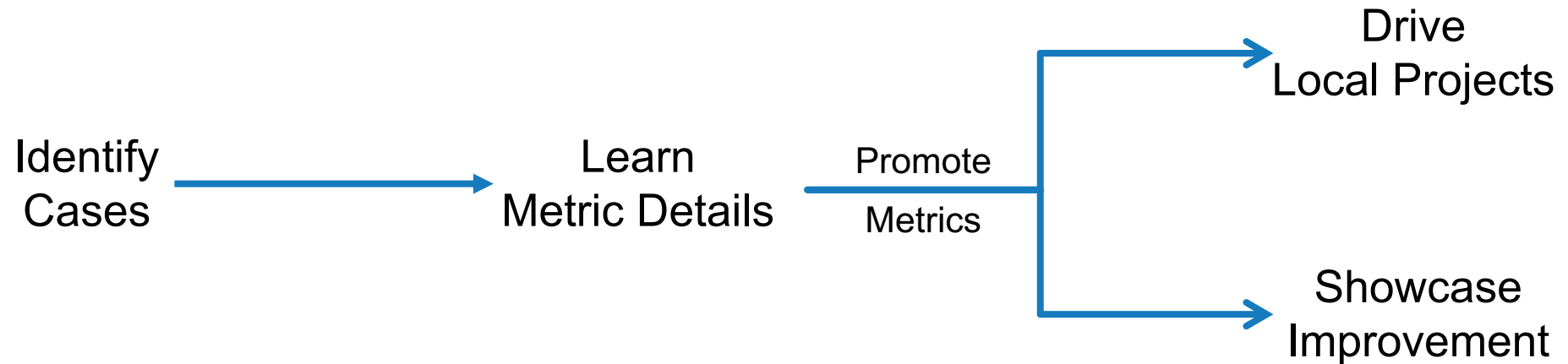
- GCS
- NIHSS
- ICH

Deadlines

- Benchmark 1 - Friday, August 14, 2020

- Benchmark 2 - Friday, November 13, 2020

Bottom Line



“In God we trust, all others bring data” – W. Edwards Deming

Thank You