**Emergency Care Capacity and Quality (ECCQ) Electronic Clinical Quality Measure (eCQM), for Rural Emergency Hospital Quality Reporting Program: Current Draft Measure Specifications**

## Title

Emergency Care Capacity and Quality Electronic Clinical Quality Measure (eCQM)

## Measurement Period

January 1 – December 31, one calendar year

## Measure Type

Intermediate outcome

## Measure Description

This measure's main objectives are to capture variation in emergency care and measure capacity and quality of emergency care to support hospital quality improvement. The measure aims to reduce patient harm and improve outcomes for patients requiring emergency care in an emergency department (ED). Emergency care capacity is inclusive of several concepts pertaining to boarding and crowding in an ED. This measure will be designed to align with incentives to promote improved care both in EDs and the broader health system to help identify where patients do not receive timely access to emergency care.

The measure intends to capture established outcome metrics that quantify capacity and access of care in an ED and intends to positively impact millions of patients who seek treatment in the ED and help address long standing disparities in emergency care, including for patients with mental health diagnoses. Additional disparities in ED care are well documented for patients of older age, by race and ethnicity, primary language, and insurance status; such documented disparities include significantly longer ED wait times, higher left without being seen rates, longer boarding times, and longer total length of stay in the ED.

The target population includes patients of all ages and all visits that occur at a Rural Emergency Hospital (REH). There are four separate cohorts for this measure, stratified by age and principal mental health diagnosis.

## Data Sources

This measure will be calculated using data from electronic health records (EHRs) from individual REHs.

## Denominator

Includes all ED visits at REHs associated with patients of all ages, for all-payers, during the performance period. Patients can have multiple visits during a performance period; each visit is eligible to contribute to the outcome.

## Exclusion Criteria

This measure has no denominator exclusions.

## Numerator

The numerator is comprised of any ED visit at an REH in the denominator with any quality gap in access; if the patient experiences any of the following during a visit, the visit is included in the numerator:

1. The patient waited longer than **1 hour** to be placed in a treatment room or dedicated treatment area that allows for audiovisual privacy during history-taking and physical examination; or
2. The patient left the ED without being evaluated by a physician/advanced practice nurse/physician’s assistant, or
3. The patient, if transferred (time from Decision to Transfer to ED physical departure), boarded for longer than **4 hours**, or
4. The patient had an ED length of stay (LOS) (time from ED arrival to ED physical departure as defined by the ED depart timestamp) of longer than **8 hours**.

## Numerator Exclusions

ED observation stays, defined as an observation encounter where the patient remains physically in an area under control of the emergency department and under the care of an emergency department clinician inclusive of observation in a hospital bed, will be excluded from criteria #3 (transfer boarding) and #4 (ED LOS).

## Stratification

Four cohorts of the measure will be calculated, stratified by age and mental health visits.

A history of mental health diagnosis does not automatically exclude or include patients in the strata; the principal diagnosis defines inclusion in the appropriate strata. The principal diagnosis will be used to define strata inclusion; a history of mental health diagnosis will not automatically exclude or include patients in either stratum. For the purpose of this measure, mental health diagnoses do not include substance use disorders.

Stratification by age will be reported for patients less than 18 years of age and patients 18 years of age and older, for both mental health and non-mental health cohorts. All references to “ED” indicate an ED visit that occurred at an REH.

Total score and score for the following strata will be reported:

Stratification 1: all patients aged less than 18 years seen in the ED who do not have an ED encounter principal diagnosis consistent with psychiatric/mental health diagnoses. Patients who have an ED encounter principal diagnosis consistent with substance use disorders will be included in this stratification.

Stratification 2: all patients aged 18 years and older seen in the ED who do not have an ED encounter principal diagnosis consistent with psychiatric/mental health diagnoses. Patients who have an ED encounter principal diagnosis consistent with substance use disorders will be included in this stratification.

Stratification 3: all patients aged less than 18 years seen in the ED who have an ED encounter principal diagnosis consistent with psychiatric/mental health diagnoses.

Stratification 4: all patients aged 18 years and older seen in the ED who have an ED encounter principal diagnosis consistent with psychiatric/mental health diagnoses.

## Risk Adjustment

While the HOQR version of this measure will utilize volume standardization to address differences in patient population between hospitals, this REH version will not because all REHs are within the same volume strata.

## Measure Score Calculation

The score for public display will be the proportion of ED visits where any one of the four outcomes occurred. A higher score means worse performance. See the [Appendix](#Appendix) for a mock score example.

## Appendix: Mock Scoring Presentation

All scores and data in this Appendix are hypothetical and for illustrative purposes only.

**Narrative:**

Hospital X with 10,000 ED visits, we assume 25% of their total ED visits qualify as an access failure based on numerator definition (visits that fall into any one of the four numerator categories).

Measurement period is from January 1-December 31 20XX.

**Public View\*:**

\*Presentation of this information is consistent with what is shown on Care Compare for current measures

\*\*Example language, subject to change throughout

**Private View (for hospitals only):**

For Adult, Non-Mental Health:

1. Numerator 1: Waited > 1hr
   * **Observed percentage: 8%**
2. Numerator 2: Left the ED without being evaluated
   * **Observed percentage: 4%**
3. Numerator 3: (transfer) boarding >4hrs
   * **Observed percentage: 4%**
4. Numerator 4: ED length of stay (LOS) > 8hrs
   * **Observed percentage: 5%**

*\*Some visits may result in multiple access failures in multiple numerator categories, therefore percentages listed above may not equal the 22% total listed above.*

For Adult, Mental Health:

1. Numerator 1: Waited > 1hr
   * **Observed percentage: 1%**
2. Numerator 2: Left the ED without being evaluated
   * **Observed percentage: 4%**
3. Numerator 3: (transfer) boarding >4hrs
   * **Observed percentage: 8%**
4. Numerator 4: ED length of stay (LOS) > 8hrs
   * **Observed percentage: 70%**

*\*Some visits may result in multiple access failures in multiple numerator categories, therefore percentages listed above may not equal the 70% total listed above.*

For Pediatric, Mental Health:

1. Numerator 1: Waited > 1hr
   * **Observed percentage: 1%**
2. Numerator 2: Left the ED without being evaluated
   * **Observed percentage: 4%**
3. Numerator 3: (transfer) boarding >4hrs
   * **Observed percentage: 8%**
4. Numerator 4: ED length of stay (LOS) > 8hrs
   * **Observed percentage: 70%**

*\*Some visits may result in multiple access failures in multiple numerator categories, therefore percentages listed above may not equal the 70% total listed above.*

For Pediatric, Non-Mental Health:

1. Numerator 1: Waited > 1hr
   * **Observed percentage: 2%**
2. Numerator 2: Left the ED without being evaluated
   * **Observed percentage: 4%**
3. Numerator 3: (transfer) boarding >4hrs
   * **Observed percentage: 6%**
4. Numerator 4: ED length of stay (LOS) > 8hrs
   * **Observed percentage: 1%**

*\*Some visits may result in multiple access failures in multiple numerator categories, therefore percentages listed above may not equal the 5% total listed above.*