BLOOD GLUCOSE TEST IN STROKE

Desired Outcome All patients exhibiting signs of a Cerebrovascular Accident (Stroke) receive a

blood glucose test before arrival at the hospital.

Standard 100% of patients with no contraindications

Acceptable Quality

Level

Performance may not fall below 87% for more than two consecutive months or

any three months in a year.

Monitoring Method Run Chart updated by 10th business day at the beginning of each quarter.

MEASURE DESCRIPTION

Indicator Description This is the percent of patients exhibiting signs and symptoms of a stroke who

receive a blood glucose assessment (BGL) by EMS.

Question Indicator

Answers

What percentage of patients who are having a Stroke event received a blood

glucose assessment?

Patient / Customer

Need

A blood glucose assessment is a quick and accurate test that can assist

paramedics form an accurate impression and care plan for patients exhibiting

signs and symptoms of a stroke.

Type of Measure Process

Objective All patients exhibiting signs of a Cerebrovascular Accident (Stroke) receive a

blood glucose test before arrival at the hospital.

Data Provided By Clinical Performance Management

Reporting Values The percentage of stroke alert patients for whom a blood glucose assessment is

documented, as a percentage of all stroke alert patients as defined in the applicable version of the *Austin-Travis County Emergency Medical System*

Clinical Operating Guidelines.

Limitations Patients for whom medics record findings in locations that are not amenable to

standardized reporting tools (e.g. recording findings in narrative or comment

fields instead of vital signs fields) will present as a false negative.

Notes None

Measure Calculation

Count of stroke alert patients with blood glucose level recorded in the Formula Description

Vital Signs section of the ATCEMS ePCR system, divided by the count

of all stroke alert patients [based on ATCEMSS criteria].

The resulting measure is expressed as a percentage.

 $Percentage = \frac{count([Stroke\ Alert\ patients\ with\ recorded\ BGL])}{count([Stroke\ Alert\ patients])}$ **Indicator Formula**

Data Filters Include only patients identified in ePCR data as meeting stroke alert

criteria

Interval Calculation Not applicable.

Numerator All stroke alert patients who have at least one Blood Glucose Level Population

(BGL) recorded in the "BGL" field of the Vital Signs screen of the Vital

Signs section of RescueNet TabletPCR.

Inclusion All patients who are identified on patient care documentation as

meeting stroke alert criteria.

May include those patients whose BGL is assessed by first responders,

if recorded in the correct location.

Exclusion Patients whose level is not recorded in this field.

Data Source Clinical Performance Management audit results.

Denominator **Population** All patients documented as meeting stroke alert criteria.

Inclusion See above

Exclusion Patients who refuse intervention or refuse transport.

Data Source Clinical Performance Management audit results.

Aggregation Aggregate patients based on date/time of phone pickup in

Communications Center for incident.

Stratification None

Minimum Sample Size None Data Lineage Patients meeting Stroke Alert criteria are queried from ATCEMS ePCR

data. Charts of patients who do not have a documented BGL value are retrieved and reviewed to identify those meeting exclusion

criteria.

Reporting

Travis County ILA Reporting Medium: Web site chart

Orientation: External

Format: Run chart containing quarterly data values for most recent

nine quarter period.

Update Frequency: Quarterly

Data Source: Clinical Performance Management performance report

Metadata

Pillar / Strategic Objective Links S1: To be an organization that strives to improve the lives of people in

our community.

S2: To have a service delivery model that best serves the needs of our

community.

S3: To be an organization that puts service before self.

F2: To be an organization that provides value to the community.

F3: To provide quality cost efficient service to the community.

Development Status Actively reporting.

References Interlocal Agreement Between the City of Austin and Travis County for

Emergency Medical Services (Fiscal Year 2014)

Adams HP, et al, "Guidelines for the Early Management of Adults With Ischemic Stroke." *Circulation*, 2007; 115: e478-e534. Available

at http://circ.ahajournals.org/content/115/20/e478

Best Practices None referenced

Definition Version Info Version C; 2014-03-06