



## Monroe Livingston Region Program Agency

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Division of Prehospital Medicine, University of Rochester

Mailing Address: 601 Elmwood Avenue, Box 655, Rochester, NY 14642

Physical Address: 120 Corporate Woods, Suite 100, Rochester, NY 14623

Phone: (585) 463-2900 Fax: (585) 463-2966 E-Mail: [mlrems@urmc.rochester.edu](mailto:mlrems@urmc.rochester.edu)

To: Monroe-Livingston EMS Agencies

From: Manish N. Shah, MD, MPH  
Chair, QA Committee  
Associate Regional Medical Director for QA

Tracy L. DeMarse, EMT-P  
Program Agency Administrator

Date: February 18, 2011

Re: Performance Metrics

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The MLREMS REMAC QA Subcommittee has been working on a number of tasks, including developing performance metrics that may be of interest to agencies to use as part of their internal Quality Assurance/Quality Improvement programs.

These potential performance metrics are purely for agencies to use to evaluate the care they are delivering. There is no current plan for the REMAC QA Subcommittee to use these metrics at the regional level. Instead, this is being developed to support individual agencies.

The most recent performance metric that has been developed is related to Blood Glucose (BG) acquisition in syncope patients. The performance goal, as outlined in the attached matrix, is 100% compliance within the first 10 minutes. In other words, within 10 minutes of EMS making patient contact with a patient whose diagnosis or chief complaint is syncope/fainting/unconsciousness, blood glucometry will be assessed 100% of the time.

Attached you will find a document that discusses the rationale for this metric and was used to develop the metric. Also, the Subcommittee has produced a document that describes how to set up the report within emsCharts at the agency level. By utilizing this document, and following the steps precisely as written, your agency can ensure that the data produced will accurately reflect where your agency stands with regard to meeting the target goal of 100% compliance. Finally, a Microsoft Excel spreadsheet is provided that should be used to perform the analysis.

Please review the documents and contact our office should you have questions.

BG Acquisition in Syncopal Patients

Category	Indicator	Definition of Indicator	Rationale Relating Measure to System Quality	Performance Goal	References
<p>What is being measured. I.e., 12-Lead for syncope, 12 Lead for chest pain, ASA for chest pain, BG for Syncope, BG for CVA, BG for Seizures, and Pain management for children</p>	<p>Based on chief complaint, diagnosis, or both. Or, is there a better way to define who/what will be counted? For all patients or those that meet certain demographics such as age, etc.?</p>	<p>How will the patients be defined in the field? Will it be specific chart characteristics that are used to identify?</p>	<p>I e.,for 12 lead in syncope: Often times, the cause of a syncopal episode is a potentially life threatening cardiac dysrhythmia. If the dysrhythmia is transient, performing a 12 lead ECG as close as possible to the syncopal event can aid in not only identifying the dysrhythmia, but also in providing proper treatment.</p>	<p>Need to determine the appropriate target and explain how they determined that target.</p>	<p>Protocols</p>
<p>BG for Syncope</p>	<p>Chief Complaint or Diagnosis: Can find it in: Protocol (2.4 Altered Mental Status), complaint impressions (Syncope - nemsis and NYS export data)</p>	<p>Present or absent</p>	<p>there are many differential diagnoses for syncope and near syncope. As with any potentially neurological condition, a blood glucose level is indicated as a measure to r/o hypoglycemia as a cause and perhaps r/i hyperglycemia</p>	<p>100% of ALS encounters for patient with syncope should contain blood glucose assessment within 10 minutes of making patient contact.</p>	<p>Protocols, Merck Manual, Merck Manual for Geriatrics, eMedicine: syncope, all cite hypo/hyperglycemia as a cause of syncope (Protocol 2.4 lists patients over 35 requiring bg, ecg, spo2</p>

Title: Syncope Calls with BG Reading

“Criteria”:

The screenshot shows the 'Criteria' tab of a report configuration window titled 'Syncope calls with BG Readings'. The window has several tabs: 'General', 'Criteria', 'Criteria Grouping', 'Group By', 'Output', and 'Test'. The 'Criteria' tab is active, displaying a table of 'Report Criteria' and a 'New Criteria' section.

Category	Column	Criteria		
Page 1 - Dispatch Information	Date Dispatched	Prompt		
Page 1 - Dispatch Information	Date Dispatched	Prompt		
Page 1 - Dispatch Information	Medical Category	Is One Of: Unconscious/ Fainting, Syncope/Faint		
Page 8 - Activity Log, Vitals, Actions	Glucose (Vitals)	Not Blank		

**New Criteria**

Category:

**Final Criteria Statement**

Date Dispatched (Prompt)  
AND Date Dispatched (Prompt)  
AND Medical Category Is One Of: Unconscious/ Fainting, Syncope/Faint  
AND Glucose (Vitals) Not Blank

emsCharts - 600 Mifflin Road, Suite 102, Pittsburgh, PA 15207 - 866.647.8282 - 412.647.4895

\*For Page 1-Dispatch Information, Medical Category, Is One Of:...selections will be specific to however your agency has that field written in emsCharts.

No Change to tabs called “Criteria Grouping” or “Group By”

“Output” (Must be in this order)

The screenshot shows the 'Output' tab of the same report configuration window. The 'Output' tab is active, displaying a table of 'Report Output' and a 'New Criteria' section.

Category	Column	Display Title	Order		
Page 1 - Dispatch Information	PRID	PRID			
Patient Page	Age In Years (Calc)	Age In Years (Calc)			
Page 1 - Dispatch Information	Medical Category	Medical Category			
Page 1 - Dispatch Information	Date Dispatched	Date Dispatched			
Page 1 - Dispatch Information	Date At Pt	Date At Pt			
Page 8 - Activity Log, Vitals, Actions	Vital Date	Vital Date			

*To arrange, drag and drop the above rows, then click Save Format*

**New Criteria**

Category:

Title: Total Syncope Calls

“Criteria”:

**Total Syncope Calls**

General Criteria Criteria Grouping Group By Output Test

Category	Column	Criteria		
Page 1 - Dispatch Information	Date Dispatched	Prompt		
Page 1 - Dispatch Information	Date Dispatched	Prompt		
Page 1 - Dispatch Information	Medical Category	Is One Of: Unconscious/ Fainting, Syncope/Faint		

**New Criteria**

Category: --- Select a category ---

Add Cancel

**Final Criteria Statement**

Date Dispatched (Prompt)  
AND Date Dispatched (Prompt)  
AND Medical Category Is One Of: Unconscious/ Fainting, Syncope/Faint

No Changes to tabs called “Criteria Grouping” or “Group By”

“Output”

**Total Syncope Calls**

General Criteria Criteria Grouping Group By Output Test

Category	Column	Display Title	Order		
Page 1 - Dispatch Information	PRID	PRID			

*To arrange, drag and drop the above rows, then click Save Format*

Save Format

**New Criteria**

Category: --- Select a category ---

Add Cancel

Input the results of these 2 reports into the Syncope\_BG excel file

In order to input the results, use the clipboard option in emsCharts and then paste the information directly into the fields of the spreadsheet.