

**Practice Update** 

The Center for Professional Development & Practice

### April 2014

## Obtaining Blood Glucose Samples Tips and Tricks

Recent safety learning reports (SLRs) have identified problems when operating glucometers and incorrect practices when obtaining a Point of Care Test (POCT) for glucose. Please review these reminders to help obtain samples.

### The glucometer will not work or I am receiving an error message. What do I do?

- Be sure both levels of quality control (QC) have been completed. Both must be completed daily or the machine will not perform a patient test. Each unit should have a process for QC completion.
- The first drop of blood should be wiped away and not used.
- Be sure you have a good drop of blood before touching the strip to the blood so that the blood can "wick" fully on the strip the first time.
- See attached manufacturer references to troubleshoot error messages.

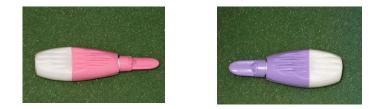
### Can I obtain a sample from somewhere other than the fingers or heels in infants?

- Samples obtained from other sites may give a blood glucose result that differs or "lags behind" the results obtained from the fingers. To make treatment decisions we need accurate and consistent readings.
- The sites approved by Children's for obtaining glucose POCTs are the **heel** for infants not yet walking, or a **fingertip** for children >12 months of age.
- Use the palmer surface of the index, middle or ring finger.
- Care must be taken particularly when drawing blood from infants as the distance from skin surface to bone is quite small and the bone can easily be injured.



### What lancet device do I use for fingersticks?

- Two finger glucose lancets are available -
- Pink (21G, 1.8mm) and Purple (30G, 1.5mm)



### What lancet device do I use for heelsticks?

• NICU heel glucose lancet



### What can help me to get a better sample?

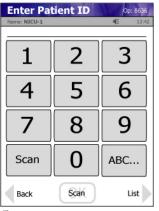
- Warming the site prior to obtaining the sample can help.
- Hold the sample site below the level of the heart, if possible.



### **Glucose Monitoring System Quick Operating Guide**



1 From Home screen, press Login.



5 SCAN Patient ID - the one that looks like ||| || |||||| - and press Accept.



9 Touch strip to blood drop. Result will appear within 6 seconds.



2 SCAN Operator ID and press Accept.



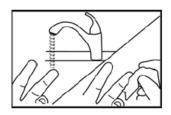
6 Insert Test Strip into Meter.

### 10 Warning!

The test strip must fill completely upon touching the blood droplet. If the test strip does not fill completely, do not touch the blood droplet a second time. Discard the test strip and repeat the test with a new test strip.



3 From Patient Test screen, press Accept.



7 Wash patient's hand thoroughly and massage finger to stimulate blood flow.

Strip Lot: 0206806099

Comment

**Patient Result** 

Glu 102 mg/dL

Accept

11 To accept a result press Accept.

<50 or >300 ALWAYS requires a comment! Touch Comment & select

appropriate comment. Touch Accept

TWICE to save comment & send with

result to patient chart.

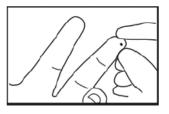
Pt ID: 194546646

Darryl Smith

Reject



4 SCAN Strip lot number and press Accept.



8 Use safety lancet to puncture finger. Squeeze finger to form blood drop.



12 To review other results, Press Review from Patient Test screen.



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### Glucose Monitoring System Quick Troubleshooting Guide

### **1** Low Battery



Battery Low. Place meter into charging/docking station.

### 2 Test Strip Removed



Test has been cancelled.

## 3 Temperature

Meter will only work in a temperature range of 59°-104°F (15°-40°C).

Continue

# 4 Bad Sample

Insert new strip and repeat test.

### **5** Strip Rejected



Occurs after test strip insertion or during analysis. Insert another strip and repeat the test.

### 6 Flow Error



Either insufficient sample or the sample was applied incorrectly. Repeat test with a new strip.

### 7 Transfer Failed



Meter is unable to connect to the transfer computer. Contact your Point of Care Coordinator for assistance.

### 8 Transfer Failed



Meter was removed before data transfer was complete. Re-dock the meter.



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