

Performing a Patient or Proficiency Test on the Nova StatStrip® Glucometer

Purpose:

This procedure provides instructions for how to perform a patient test on the Nova StatStrip® Glucose Hospital Meter System.

Glucose Reference Ranges:

Configuration	Normal Range	Critical Results
Neonate (<28 days)	2.6 to 7.0 mmol/L	<2.0 mmol/L >20.0 mmol/L
Non-Neonate (≥28 days)	4.0 to 7.0 mmol/L	<2.6 mmol/L >25.0 mmol/L
Adult (≥17 years old)	4.0 to 11.0 mmol/L	<2.6 mmol/L >25.0 mmol/L

NOTE:

- Meters in CW and Affiliate Sites will either have Neonate or Non-Neonate configurations.
- Meters in BCMHA will only have the Adult configuration.
- NEVER move a meter from one ward/area to another ward/area.

Glucose Meter Measurement Range	0.6 to 33.3 mmol/L
Result Alerts	<p>Take note of the following meter result alerts when interpreting patient glucose test results:</p> <ol style="list-style-type: none"> a. Results within the normal range are displayed in blue. b. Results outside the normal range are displayed in red. c. A single up arrow displays for abnormal high result. d. Double up arrows will display for critical high value. e. A single down arrow displays for abnormal low result. f. Double down arrows will display for critical low value. g. If the value is outside the measurement range of the

	meter, the low or high end of the measurement range value displays a <0.6 or >33.3.
Handling Results Outside the Meter Measurement Range	<p>If the test result is higher than 33.3 mmol/L, the glucose meter will read “HI”.</p> <p>If the test result is lower than 0.6 mmol/L, the glucose meter will read “LO”.</p> <p>Refer to the following guidelines when dealing with HI or LO results:</p> <ol style="list-style-type: none"> a. Verify good sample quality and correct sample application. b. Retest using a new test strip. c. If the same HI or LO reading is obtained, follow Critical Result Handling protocol.
Critical Result Handling	<p>Refer to the following guidelines when dealing with a critical patient glucose result:</p> <ol style="list-style-type: none"> a. Verify good sample quality and correct sample application. b. Confirm critical result by repeating the test using a new test strip. c. Relay the result to the physician. d. If indicated, order a lab-drawn glucose test. e. Document result and any actions taken in the patient’s medical record.

Materials:

1. Nova StatStrip® Glucose meter
2. StatStrip® Glucose Test Strips
3. Sterile, single-use hospital-approved lancet
4. Alcohol wipes
5. Blood collection supplies
6. Proficiency Samples, if doing proficiency test


Safety Precautions:

1. Universal Safety Precautions should be adhered to when handling or using the StatStrip® Glucose Meter System to reduce the risk of disease transmission. All parts of the StatStrip® Glucose Hospital Meter System are considered potentially infectious and

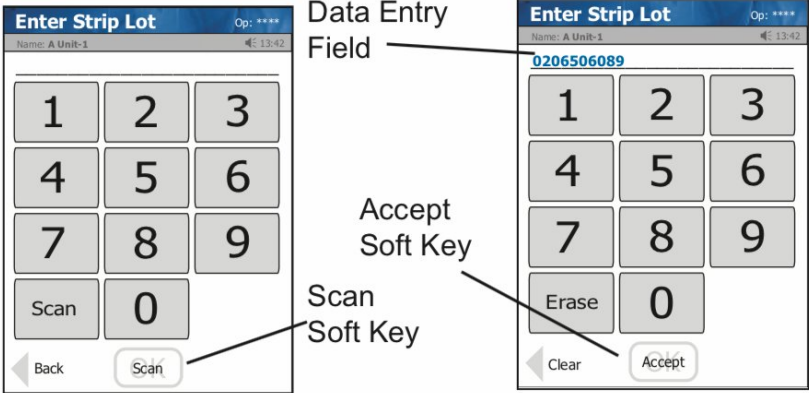
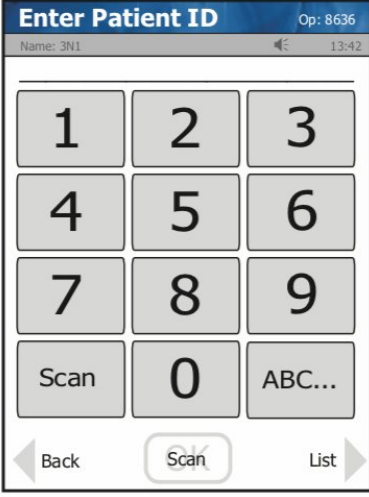
can potentially transmit blood-borne pathogens between patients and healthcare professionals.


2. Always wear a new pair of protective gloves before testing each new patient.
3. Only utilize single-use lancing devices. Do not re-use lancets.
4. Follow all operating instructions. Do not attempt to operate any equipment unless training has been successfully completed.

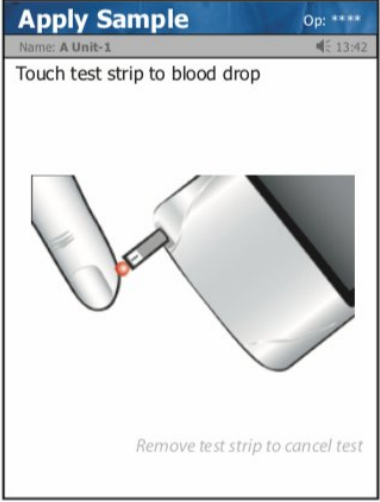
Procedure:

	Action	Related Documents Title Number
1.	Check the glucose meter: <ol style="list-style-type: none"> a. Ensure QC has been done and passed within the last 24 hours. b. Ensure battery strength is sufficient for testing. 	
2.	Gather all materials. Perform hand hygiene and don on clean gloves.	
3.	Identify patient and obtain consent, as applicable, before proceeding with the test.	
4.	From the Home screen, press Login	

	Action	Related Documents Title Number
	<p>5. Enter Operator ID, and press Accept.</p> <ul style="list-style-type: none"> • <u>To Manually Enter Operator Number:</u> Press the 0–9 soft keys to enter numbers or the ABC soft key to enter letters. Then, press the Accept soft key at the bottom of the screen. • Always confirm your name on the meter. Never use another person's login. <div data-bbox="857 401 1227 890" style="border: 1px solid black; padding: 5px; margin: 10px 0;"> </div> <p>Note: If your user ID is not recognized by the meter, make sure you have:</p> <ol style="list-style-type: none"> a. An active user ID after completing the LearningHub course, quiz and user ID form b. Completed one set of QC and three patients in the past year <p>Contact POCTLab@cw.bc.ca for further assistance.</p>	
	<p>6. From the Patient Test screen, press the Accept soft key.</p> <div data-bbox="272 1297 834 1745" style="border: 1px solid black; padding: 10px; margin: 10px 0;"> </div>	

	Action	Related Documents Title Number
7.	<p>The Enter Strip Lot screen displays. Scan the strip lot number.</p> <div style="display: flex; align-items: center; justify-content: center;">  </div>	
8.	<p>The Enter Patient ID screen displays.</p> <ol style="list-style-type: none"> a. For patient testing, PHSA currently does not require Patient ID to be entered. Just press 1 or 0. b. For proficiency testing, enter the proficiency sample number provided with the kit. <p>Then, press the Accept soft key.</p>	

	Action	Related Documents Title Number
<p>9. The Insert Strip screen displays.</p> <p>Remove a test strip from the bottle and recap the bottle. Insert the test strip as shown on the meter screen.</p> <p>NOTE:</p> <ul style="list-style-type: none"> • Insert the gold end to the meter. • Avoid touching the white front end of the test strip. • The Apply Sample screen will display once the test strip is inserted. • Meter will go to sleep mode after 90 seconds of inactivity. • Wake meter up by touching the screen. The meter wake-up time is 4 seconds. 		
<p>10. Perform blood collection as per ward-specific Standard Operating Procedure (SOP)</p> <p>Note: Wipe away the first drop of blood.</p>		

	Action	Related Documents Title Number
<p>11.</p>	<p>When the 2nd blood drop appears, touch the end of the test strip to the blood drop until the well of the test strip is full and the meter beeps.</p> <p>Result will appear within 6 seconds.</p> <p>NOTES: The test strip must fill completely upon touching the blood droplet. If the test strip does not fill completely, do not touch the test strip to the blood droplet a second time. Discard the test strip and repeat the test with a new strip.</p> <p>Flow errors can occur if the strip is improperly filled or if the strip is removed before 6 seconds is done.</p>	
<p>12.</p>	<p>Apply firm pressure to the puncture site with clean dry gauze or cotton ball.</p>	
<p>13.</p>	<p>Remove the strip manually or use the ejector button on the back of the meter to eject the strip directly into a biohazard container.</p>	

	<h2>Action</h2>	Related Documents Title Number
14.	<p>To accept result, press Accept. To reject result, press Reject. To insert a comment, press Comment.</p> <div style="text-align: center;"> <p style="text-align: center;">Glu Result</p> <p style="text-align: center;">Reject Soft Key</p> <p style="text-align: center;">Accept Soft Key</p> <p style="text-align: center;">Reject Soft Key</p> <p style="text-align: center;">Comment Soft Key</p> </div> <p>To review other results, press Review from the Patient Test screen.</p> <div style="display: flex; justify-content: space-around; align-items: flex-end;"> <div style="text-align: center;"> </div> <div style="text-align: center;"> </div> </div>	

Medical Approval: Dr. Li Wang Version: 1.00 Folder Name: CW\Point of Care\Whole Blood Glucose This is a controlled document for CW use only. Any printed copies are uncontrolled unless specified. Please refer to Lab QMS	Medical Approval Date: Feb 26, 2021 Implementation Date: 2/28/2021 6:44:18 PM
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	Action	Related Documents Title Number
	The following pre-configured comments are available to use: <ul style="list-style-type: none"> a. Procedure error b. Expired reagent c. To repeat test d. Repeated test e. Repeat with lab draw f. Provider notified g. Rpt new strip vial 	
15.	Dispose of used materials properly: <ul style="list-style-type: none"> a. Throw lancets into the sharps biohazard waste container. b. Throw used test strips, gauze and all other non-sharp materials contaminated with patient sample into the regular biohazard waste container. 	
16.	Clean and disinfect the meter.	Nova StatStrip® Glucometer Maintenance and Cleaning Procedure
17.	Record the test result in the patient chart or Hospital Information System.	
18.	Return the meter to the docking/charging station.	
19.	Remove and dispose of the used gloves. Perform hand hygiene.	

References:

1. Nova Biomedical. StatStrip® Glucose Hospital Meter System: Instructions for Use Manual. REF 55848. September 2018.
2. Nova Biomedical. StatStrip® Glucose Monitoring System Quick Operating Guide.

Revision Log

Version	Description of Change	Revised by	Revision Date
1.00	<ul style="list-style-type: none">New document	Julieto Tumulak	Feb 15, 2021

Attention: This document is published on the PHSA ePOPS website

Revisions made to this document require an update to the corresponding document published on ePOPS website