STANTON TERRITORIAL HEALTH AUTHORITY

Yellowknife, Northwest Territories

TITLE: Nova Biomedical Glucometer Patient Testing	**Revision Date:** 07-July-2016	**Issue Date:** 07-July-2014
Document Number: POC20201	**Status: Approved**	
Distribution: Point of Care Testing Manual	**Page:** 1 of 6	
Approved by: C. Case, Manager, Diagnostic Services	**Signed by:** Cheryl Case	

PURPOSE:

To determine a patient's Blood Glucose level.

POLICY:

See Hospital Wide Policy L-1040 Point of Care Testing (Laboratory Testing).

SAMPLE INFORMATION:

Type	Whole Blood
Source	Capillary Puncture
Volume	One Drop
Stability	Testing to be performed at time of collection

REAGENTS and/or MEDIA:

- Nova Biomedical StatStrip® GLU Test Strips

SUPPLIES:

- Nova Biomedical StatStrip® Glucose Hospital Meter
- Lancet(s)
- Gloves
- 2 x 2 Gauze
- Alcohol Prep Pad

SPECIAL SAFETY PRECAUTIONS:

- Handle all patient samples and testing sera using “Routine Practices”.
- Please refer to the Northwest Territories Infection Prevention and Control Manual, March 2012.
- Prior to testing all patients are to be identified as per I-0500 Use of Two Patient Identifiers.

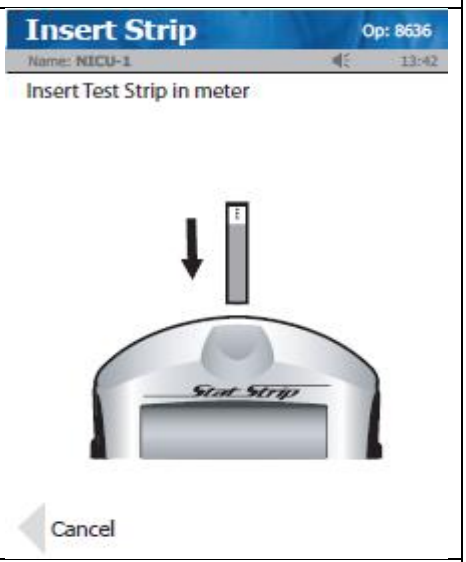
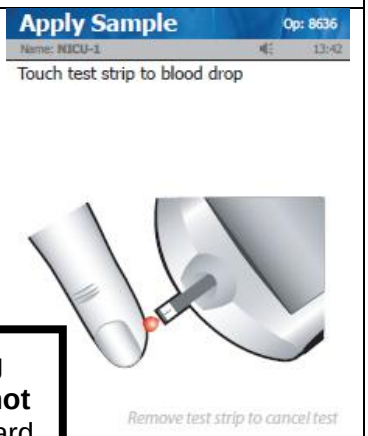
QUALITY CONTROL:

See POC20101 Nova Biomedical Glucometer Quality Control Test

PROCEDURE INSTRUCTIONS:

Follow the steps in the table below to perform Glucometer Patient Testing.

Step	Action
1	Turn on by pressing the **Sleep Mode** button. 
2	Press the **OK/Enter** button to begin testing.
3	Enter your Operator ID number manually or scan your barcode.
4	Press the **OK/Enter** button to accept your Operator ID number.
5	Enter the patient’s ID (chart number) and press **OK/Enter**.

6	Scan the barcode on the side of the vial for the lot number of the test strips you are using. Press **OK/Enter**.
7	Insert a test strip into the top of the testing meter as shown on the screen. 
8	Obtain a drop of capillary blood by puncturing the finger or heel using a lancing device. The puncture site should be cleaned using an alcohol wipe and allowed to thoroughly air dry before obtaining the sample. See SCM20300 Capillary Puncture or SCM20400 Newborn Puncture if more details are required. Wipe the first drop of blood away, then gently milk the finger or heel until another drop of blood is obtained.
9	The Apply Sample screen should be displayed. When the 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.  **WARNING!**: 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 drop a second time**. Discard the test strip and repeat the test with a new strip.
10	The test result will appear in 6 seconds. Do not remove the test strip until the countdown is complete. Meter results range from 0.6 – 33.3 mmol/L.

11	The test result is diplayed differently depending on whether it is in or out of the normal range for glucose measurement.  • Results within the normal range are displayed in blue • Results outside the normal range are displayed in red • If the result is outside the technical range of the meter, the results are displayed as <0.6 mmol/L or >33.3 mmol/L • A single arrow up or down (↑or ↓) indicates a result outside of the normal range, but within the critical range. • A double arrow up or down (↑↑ or ↓↓) indicates a critical result **NOTE: If the glucose result is < 2.6 mmol/L or > 25.0 mmol/L, this is considered a "panic" result at STHA. Blood Glucose monitoring should, as per the Critical Laboratory Values Policy, first be repeated for confirmation and phoned to the physician immediately.**
12	To accept the result, press the **Accept** soft key.
13	To reject the result, press the **Reject** soft key.
14	To add a comment, press the **Comment** soft key. All data are stored into memory.
15	Dispose of the lancet into a sharps container.
16	Record the patient glucose value obtained on the appropriate sheet in the patient's chart.

RELATED DOCUMENTS:

- POC20101 Nova Biomedical Glucometer Quality Control Test
- SCM20300 Capillary Puncture
- SCM40100 Specimen Acceptance and Rejection Policy
- L-0900 Critical Laboratory Values (Panic Values)
- I-0500 Use of Two Patient Identifiers

REFERENCES:

Nova Biomedical, StatStrip® Glucose Hospital Meter, Instructions for Use Manual, Nova Biomedical Corporation, Waltham, MA, 2011

REVISION HISTORY:

REVISION	DATE	Description of Change	REQUESTED BY
1.0	03 Apr 13	Initial Release	JGD Bernier
		(Replaces POC20200 to reflect new glucometer instrumentation)	
2.0	15 May 14	Updated to include reference to;I-0500 Use of Two Patient Identifiers; SCM20300 Capillary Puncture; SCM40100; NWT Infection Prevention & Control Manual	JGD Bernier