 <p>Winnipeg Regional Health Authority Office régional de la santé de Winnipeg Caring for Health À l'écoute de notre santé</p> <p>PRIMARY HEALTH CARE PRACTICE GUIDELINES</p>	<p>Practice Guideline: Point of care testing: Blood Glucose Monitoring</p>	<p>Guideline Number: PCPG10</p>
	<p>Approved By: Community Primary Care Council</p>	<p>Pages: 1 of 3</p>
	<p>Approval Date: May 8, 2018</p>	<p>Supersedes: September 6, 2011</p>

1. PRACTICE OUTCOME

- 1.1. To monitor/evaluate patients' capillary blood glucose levels when a quick report is required for guiding treatment.
- 1.2. To monitor accuracy of the glucose meter.
- 1.3. To ensure appropriate use of the approved, standard blood glucose meter in WRHA settings.

2. DEFINITIONS: N/A

3. GUIDELINES

3.1 The glucose monitor must be cleaned between patient uses. Refer to [WRHA Infection Prevention and Control Policy 90.00.040 Cleaning of Non-Critical Reusable Equipment](#) (Glucose Monitors) and [WRHA Infection Prevention and Control Policy 90.00.010 Single-Use Medical Devices](#) (Test Strips and Lancet)

3.2 Health care providers must receive training in use of the Nova Stat Strip Hospital Glucose Meter Monitoring System prior to use. Refer to Nova Stat Strip Glucose Meter Training (Appendix A, B and C).


3.3 Stat Strip Competency Exam (Appendix D) must be completed by all clinicians providing blood glucose monitoring, following the completion of training. Completed competency exam should be given to Team Manager for inclusion in their personnel file

3.4 Quality control (QC) samples for glucose meters shall be performed every 24 hours prior to performing blood glucose monitoring. Quality control test detects errors such as defective strips or meters. This procedure is outlined below and in the quick reference guide (Appendix E).

4. PROCEDURE

4.1 QUALITY CONTROL TESTING

- **Quick reference guide for this process appears as Appendix E.**
- 4.1.1 Use the quality control solution to perform quality control test
 - Use both High and Low Controls
 - Testing must occur every 24 hours; clinics are responsible for scheduling and assigning this task.
 - Visual message appears on the meter when QC is due.
- 4.1.2 Test quality control solution in same manner as patients' blood sample
 - From the Welcome screen, press **LOGIN**
 - Enter operator ID (#1) and press **ACCEPT**
 - From patient test screen, press QC
 - Scan test strip lot number & scan QC lot number
 - Insert test strip into meter(slot located at the top of the meter)
 - Touch drop from QC bottle to tip of strip.
 - QC result within range, press **ACCEPT**

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- Complete QC with both High and Low controls

4.2 BLOOD GLUCOSE MONITORING

- **Quick reference guide for this process appears as Appendix F.**

4.2.1 From welcome screen, press **LOGIN**

- Enter operator ID (#1) and press **ACCEPT**
- From patient test screen, press **ACCEPT**
- Scan test stripe lot number
- Enter patient ID (#1), press **ACCEPT**

4.2.2 Insert a test strip into meter (slot located at the top of the meter) and touch tip of strip to patient blood drop.

- Keep meter flat or tilted downward

4.2.3 Obtain Blood Sample from Patient

- Perform hand hygiene before direct patient contact and subsequently as clinically indicated.
- Prepare automated skin lancing device and lancet.
- Select site. Cleanse site by washing with soap and water or swab with alcohol and allow to air dry.
- Rotate sites and use lateral aspect of finger if possible. Do not use infected, injured or painful sites. In Adults: alternate test sites may include the forearm, palm of hand, abdomen, thigh or ear lobe (Adults).
- In Infants: the lateral or medial aspect of the heel must be selected. Puncture of the middle area may cause nerve damage
- Lance finger to produce a small drop of blood.
- Apply drop of blood to test strip and wait 6 seconds. Do not add a second blood drop.
- Meter will indicate when testing completed or if new test is required.
- Choose **ACCEPT** or **REJECT** test meter results
- Dispose of lancet into sharps container
- Document result, client response to BG result, time of test and any action taken


4.2 CLEANING THE METER (IN ACCORDANCE WITH WRHA POLICY 90.00.040)

- Wear gloves
- Clean the meter with your Facility Approved Cleaner in a wipe format (i.e., Oxivir TB) for a cleaning contact time of 1 minute and allow to air dry after each patient use.
- When a monitor becomes visibly soiled it must be cleaned to remove all foreign matter, allowing contact with the cleaner for 1 minute.
- Once visible soiling has been removed repeat the above process with an approved wipe extending the contact time to the manufacturer's recommendation (i.e., Oxivir TB requires 5 minute contact time)

5. EQUIPMENT/SUPPLIES REQUIRED:

5.1 Blood glucose meter: Novo Stat Strip Glucose Hospital Meter System Monitor

- Meters are ordered through Logistics, and configured by Clinical Engineering before being shipped to the Clinic.

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- Clinics using the glucose meter are responsible for meter condition and replacing any lost meters.
- A replacement meter is purchased by the unit and is configured and validated by Clinical Engineering before being sent to the clinic.
- Each unit includes two batteries, one stored for back-up use.

5.2 Non-sterile gloves of appropriate size

5.3 Quality Control Solutions- low and high

5.4 Test strips

- Note expiry date
- Test strips expire within 6 months once opened.
- Ensure bottle is labeled with date opened.

5.5 Alcohol swabs

5.6 Single use, disposable skin lancing device containing lancet and test strips

5.7 Sharps container

5.8 Oxivir TB RTU and Oxivir disposable wipes

6. RESOURCES/QUICK REFERENCE SHEETS:

APPENDIX A: CURRENT VERSUS NEW NOVA STAT-STRIP GLUCOSE METER

TRAINING FOR EXISTING EMPLOYEES

APPENDIX B: FREQUENTLY ASKED QUESTIONS ABOUT THE NOVA STAT STRIP
GLUCOSE MONITOR CONVERSION

APPENDIX C: NOVA STAT STRIP TRAINING MATERIAL (FOR NEW EMPLOYEES OR
REFRESHER TRAINING)

APPENDIX D: USER GLUCOSE COMPETENCY TRAINING

APPENDIX D: QUICK REFERENCE GUIDE FOR QUALITY CONTROL

APPENDIX E: QUICK REFERENCE GUIDE FOR PATIENT GLUCOSE MONITORING

APPENDIX G: TROUBLE SHOOTING GUIDE FOR NOVA STAT STRIP

7. SOURCE/REFERENCES

- Novo StatStrip Glucose Monitoring System Operating Guidelines & Quick User Guide
- WRHA Infection Prevention and Control Policy and Community Manual

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