

Nova Statstrip Glucometer

1. Meter must be placed in docking station when not in use
 - a. Recharge
 - b. Upload patient information
 - c. Download data to the patient record
 - d. Log off operator
2. Quality Control
 - a. Two levels of Quality Control testing must take place:
 - i. Every 24 hours
 - ii. Anytime the battery is removed and replaced
 - iii. After glucose test strip lot change
 - iv. When test results contradict clinical symptoms
 - b. Quality Control Lock Out
 - i. Patient testing is prohibited when Quality Control is due
 - ii. No override
 - iii. Both levels must be run and within range before patient testing is allowed
 - c. Quality Control Reagents
 - i. Test strips
 1. Stable unopened until manufacturer's expiration
 2. Open vials are stable for 6 months
 3. Discard by date written on the side of the bottle
 - ii. Statstrip glucose control solutions
 1. Level 1 (low) and Level 3 (high)
 2. Opened vials are stable for 3 months
 3. Discard by date written on the side of the bottle
3. Blue Dialogue Bar
 - a. Pay attention to the blue dialog bar at the top of the meter
 - b. It will tell you what the meter wants
4. Performing Quality Control
 - a. Wake the meter up by touching the screen surface
 - b. Touch Login
 - c. Scan or manually enter your 3/4 ID
 - d. Touch accept
 - e. Touch and release the scan key. Scan the barcode on strip lot vial
 - f. Scan barcode on liquid Quality Control
 - g. Insert the "gold" end of the test strip into the meter strip port with the "Statstrip" label facing upward. Make sure the strip is firmly seated.
 - h. Never angle the meter with the strip pointed upward when applying control solution or whole blood to the end of the test strip
 - i. The meter must be level or strip angled downward
 - j. This will prevent control solution from entering the strip-port
 - k. Mix liquid Quality Control thoroughly

- l. Discard the first drop
 - m. Present a drop of control solution and allow the solution to draw into the four wells by capillary action
 - n. When enough sample is applied, the test countdown begins.
 - o. After 6 seconds “Pass” or “Fail” will appear
 - p. If the control passes, touch “Comment”. A comment is required.
 - q. Select “Meter Cleaned”
 - r. Touch “Accept” to return to the Quality Control result screen
 - s. This is IMPORTANT – Verify the comment and touch “Accept” AGAIN to save the selected comment
 - t. Once you are back at the Patient Test screen, remove and discard the test strip. Repeat the procedure with the other level of control
 - u. If both levels PASS, patient testing may take place
 - v. Clean/Disinfect with a damp (not wet) Sani-Cloth
 - w. Clean the meter every time you perform Quality Control and in between every patient
 - x. If either control FAILS, a list of corrective actions will be displayed when you touch “Comment”.
 - y. Select one and take appropriate corrective action
 - z. Troubleshooting – repeat the test, then open a new vial of control solution and rerun the control. If it fails a 3rd time, open a new vial of test strips and rerun the control. If it fails, replace with a spare meter kept in the lab.
5. Specimen type
- a. Capillary finger stick, venous whole blood, arterial whole blood, neonate arterial whole blood, and neonate heel stick
 - b. Capillary samples must be tested immediately after collection
6. Patient Test Procedure – All data is audited, do not allow any other member of staff to long on using your ¾ ID
- a. Wake the meter up by touching the screen surface
 - b. Touch login
 - c. Scan or manually enter your ¾ ID
 - d. Touch accept
 - e. On a Patient Test screen, you will see GLU highlighted. Touch ACCEPT
 - f. Verify the test strips are within the expiration date. Scan barcode on strip lot vial
 - g. Scan or type in the account number of the patient from the patient’s wristband
 - h. Verify the patient’s identity using at least two patient identifiers. If the correct patient has been identified, touch ACCEPT
 - i. If the meter is unable to display the patient’s information, verify the ID entered matches the ID on the patient’s wristband. If it matches, touch “New Patient Override” and proceed
 - j. As the operator, you are responsible for verifying this information. Any discrepancy found must be resolved to prevent results posting to the wrong patient’s records

- k. Insert the “gold” end of the test strip into the meter strip port with the “Statstrip” label facing upward. Make sure the strip is firmly seated
 - l. Remember – never angle the meter with strip pointed upward when applying blood sample to the end of the strip
 - m. The meter must be level or strip angled downward. This will prevent blood from entering the strip-port
7. Patient Preparation
- a. Wash the patient’s hand with water and dry thoroughly
 - b. Alternatively, use alcohol pads to clean area; dry thoroughly after clearing
 - c. Holding the patient’s hand downward, lightly massage finger with thumb toward tip to stimulate blood flow
 - d. Use the safety lancet to puncture the finger
 - e. Squeeze the finger to form a drop of blood
 - f. When blood appears from the capillary puncture, wipe off the first drop of blood
 - g. Discard the lancet in a puncture-resistant sharps container
8. Patient Test Procedure
- a. Touch the end of the strip to the second blood drop
 - b. The sample will travel by capillary action and fill the four wells on the strip
 - c. You must apply the blood sample in one continuous dose or a “flow error” may occur
 - d. If the strip does not fill the first time, do not touch the blood drop a second time. Discard the strip and repeat with a new strip
 - e. Do not let blood flow into the meter test strip port
 - f. Do not apply blood to the top of the strip
 - g. When sufficient sample has been drawn into the strip, the meter display will start the 6 second countdown
 - h. Do not remove the test strip while the countdown is in progress
 - i. Results will be displayed and you have two options: ACCEPT the result or REJECT the result
 - j. A comment is always required
9. Accept Results
- a. To send results to patient record touch ACCEPT
 - a. A comment will need to be chosen for any accepted result
 - b. Once a comment has been selected, touch ACCEPT to return to Patient Result screen
 - c. Verify the correct comment has been selected
 - d. You must touch “ACCEPT” again to save the selected comment
 - e. Testing is not complete until you return to Patient Test screen
 - f. Once you are back at the Patient Test screen
 - g. Remove and discard test strip
10. Reject results
- a. If results do not match patient’s condition or there was a procedure error touch “REJECT”

- b. A comment will need to be chosen for any rejected result
 - c. Once a reject comment has been selected touch ACCEPT to return to Patient Result screen
 - d. Verify the correct comment has been selected
 - e. Touch Reject to complete the reject process and to save the selected comment
 - f. Testing is not complete until you return to Patient Test screen
 - g. All rejected results will be reviewed
 - h. If you accidentally reject a result there is no way to go back and accept the result
 - i. You can go back into comments and free text Accept Result or Valid Result
 - j. Or you can the point of care coordinator and let them know it is a valid result at ext. 6053
11. Comments for patient testing
- a. Comments are displayed in the meter in alphabetical order
 - b. You must select one but may select up to 3 comments to document action taken
 - c. You may FREE TEXT a comment
 - d. Touch Page Down or Page Up to navigate through available Comment pages
 - e. There are 4 pages of available comments
 - f. The following comments will flag a result for review. The result will not be a part of the patient's permanent medical record in Meditech:
 - i. Do Not Chart
 - ii. Procedure Error
 - g. You may also Free Text a comment
12. Dock the meter
- a. When the meter is docked, all the information entered by the operator will be transmitted through RALS to Meditech. Docking the meter also charges the batteries and updates the meter's memory
 - b. The meter will log itself off:
 - i. After 3 minutes of inactivity
 - ii. When docked; or
 - iii. If logout is touched
13. Reference Range and Reportable Range
- a. The reportable range for the Nova Statstrip is 10 mg/dL-600 mg/dL
 - b. Normal fasting glucose for an adult is 70-99 mg/dL with the neonatal range being slightly lower
14. POC Critical Glucose Values
- a. UP or DOWN RED arrow indicate high or low results
 - b. DOUBLE RED arrows indicate critical values.
 - c. If HI is displayed, the glucose result is >600 mg/dL
 - d. If LO is displayed, the glucose result is <10 mg/dL
15. Critical Values
- a. Adult <40 or >450 mg/dL
 - b. Neonates (1 month and younger) <25 and >300 mg/dL
 - c. HI displayed, blood glucose is >600 mg/dL

- d. LO displayed, blood glucose is < 10 mg/dL

16. Nursing Personnel

- a. It is recommended that critical values be repeated on the meter and/or a STAT serum/plasma glucose lab backup for verification.
- b. If the two values obtained on the meter are consistent and correlate with the patient's clinical symptom, the RN will notify the physician or according to the unit-specific policy/protocol.
- c. Documenting Critical Values for Nursing Personnel
 - 1. A comment is required on ALL critical values.
 - 2. Select appropriate comment to document action taken.
 - 3. Critical results are reported to the physician or according to the physician's orders.
 - 4. The comment, "PERFORMED AT POCT SITE: IMMEDIATE ACTION TAKEN @ REPEAT TESTING PERFORMED ACCORDING TO POC GLUCOSE POLICY" will be automatically appended to each critical result.

17. LPN, CNA, and non-Nursing Operators

- a. It is recommended that critical values be repeated on the meter, if the LPN, CNA, and non-nursing operators obtain a critical value they should repeat the test immediately on the same meter and/or a STAT serum/plasma glucose lab backup for verification.
- b. The LPN/CNA, and non-nursing operators must immediately notify the person responsible for patient care (RN or Doctor) regarding ANY critical results obtained.
- c. If the two values obtained on the meter are consistent and correlate with the patient's clinical symptom, the nursing personnel responsible for patient care will initiate treatment according to the parameters specifically ordered by the physician or according to the unit-specific policy/protocol.
- d. Documenting Critical Values for LPN, CNA, and Non-Nursing Operators
 - 1. A comment is required on ALL critical values.
 - 2. Select the comment RN NOTIFIED or PHYSICIAN NOTIFIED then select FREE TEXT and enter the person's full first name and last name, to document who was notified.
 - 3. Critical results are reported to the physician or according to the physician's orders.
 - 4. The comment "PERFORMED AT POCT SITE: IMMEDIATE ACTION TAKEN @REPEAT TESTING PERFORMED ACCORDING TO POC GLUCOSE POLICY" will be automatically appended to each critical result.

18. A serum/plasma glucose lab backup is REQUIRED when:

- a. The meter displays HI or LO, indicating the result is beyond the monitor's readable range of 10 mg/dL – 600 mg/dL.
- b. The results do not match the patient's clinical picture.

- c. The accuracy of the meter is in question.
 - d. Results obtained on the meter are not consistent; the two results should be within 20% of each other.
 - e. Best practice is to order a STAT serum/plasma glucose to verify the critical result or result in question.
 - f. It is strongly recommended that the STAT lab specimen be collected within 15 minutes of obtaining the critical result.
 - g. The Laboratory will collect the sample for testing upon receipt of the order or nursing personnel may collect the sample and deliver to the Laboratory.
19. Clean and Disinfect meter
- a. After each patient use, or any time there is visible blood on the meter, wipe the meter with a damp (not wet) Sani-Cloth
 - b. In case of a patient in isolation with C. difficile, disposable wipes containing bleach may be used.
 - i. Allow the bleach to air dry, then wipe with Sani-Cloth to remove bleach residue

By signing this document, I acknowledge that I have read this Agreement and I agree to comply with all the terms and conditions stated above.

Name/Signature

Name/Printed

Date of Signature