

**HACKETTSTOWN REGIONAL MEDICAL CENTER
LABORATORY – POINT OF CARE POLICY MANUAL**

ACCUCHECK INFORM METER PATIENT TESTING

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Effective Date: August 7, 2006

Policy No: POC 0011

Cross Referenced:

Origin: Point of Care Tests

Reviewed Date: 7/10;11/11;5/12

Authority: Cristina Hom, MLS (ASCP),
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Revised Date: July 16, 2010

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SCOPE: All nurses, ER techs, and nuclear techs in Medical/Surgical units, Emergency Room, Post Anesthesia Care Unit, Critical Care units, Wound Care Center, OB Maternity/ Nursery, Cath Lab, Same Day Surgery, Minor Procedures, Cancer Center and Cardiac Rehab.

PURPOSE: To measure the amount of blood glucose by capillary, venous, or arterial at the bedside.

DEFINITIONS:

mg/dl = milligrams per deciliter

QC = quality control

SOP = standard of operating procedure

POCC = Point of Care Coordinator (Lab personnel)

POLICY:

1. Doctor must order the Accucheck test and the frequency of the test.
2. Any patient result that falls below or above the critical values (< 60mg/dl and >400mg/dl) and result that says “**HI**” or “**LO**” must be repeated. A proper comment must follow every critical or incorrect result. Patient test results review is done weekly and monthly.
3. The critical values for neonatal is <40mg/dl or >150mg/dl.
4. Normal ranges for non-diabetic adult is 74 -99mg/dl.
5. The fasting blood glucose range for a non-diabetic adult is 68 – 99mg/dl. The physician will determine the range that is appropriate for the diabetic adult.
6. If the patient has no MD guidelines and the result is critical, a lab back up must be ordered immediately followed by notifying the physician. The operator then enters the appropriate comment(s) in the meter.
7. When an emergency situation occurs and it may necessitate running a patient test without entering the required patient ID, any 7 digit numbers may be entered. However, when the complete information of the patient becomes available, the operator must enter the result, temporary patient ID # used, date/time and initials on the Accucheck binder labeled “Unregistered patient for the Accucheck”. Later when the patient becomes registered, enter the proper ID # by placing one of the patient’s registration labels. The POCC will then merge this information with the downloaded report. **For OB only:** When the baby is born and registration information has not been completed yet, use the medical record of the mother **PLUS 1** and follow the same procedure as mentioned above.
8. Only a certified operator may perform the blood glucose on the Accucheck Inform meters.
9. A timed blood glucose tests on these meters must be ordered by the physician unless the patient is experiencing symptoms and the caregiver needs to assess the current situation and quality care dictates a STAT test.
10. Follow the recommendations for follow up care that have been set by the department protocols for critical values in neonates or per physician order.
11. Sufficient sample size is required to ensure accurate results.
12. Meter must first be turned off before docking it into the base unit. Meter must always be docked when not in use.

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13. Manually enter the patient medical record or fin (accounting) numbers **ONLY** if their armband doesn't scan.

14. **Do not attempt to reset the meter to troubleshoot the problem** (it may erase some information). To quickly assist with this problem send the meter to the lab and pick up one of the back up meters. Run controls when you get to your department.

PROCEDURES:

1. The following items should be gathered and taken to the patient's bedside:
 - Accucheck Inform meter
 - Lancets
 - Alcohol swabs
 - Cotton ball or gauze
 - Accucheck Comfort Curve test strips
 - Disposable gloves
2. Explain the purpose of the test and the steps of the testing procedure to reassure the patient.
3. If they're able, help them wash their hands with warm water.
4. Press the power **ON/OFF** button located below the center of the touchscreen.
5. Meter will do self check. If QC is required, the message "**QC Due Immediately**" is displayed on the screen. Run QC first following the SOP.
6. Press ► to proceed. The Operator ID screen appears. Press **SCAN** and scan the employee badge. Position the scanning beam approximately four to eight inches above your employee barcode. A beep indicates a successful scan of the badge.
7. Main menu will be displayed.
8. Press **PATIENT TEST** button. Check patient's armband and make sure that this is the patient that requires an Accucheck test. Scan their armband (refer to the policy above if a patient is unregistered at the time of testing).
9. Verify the strip lot number by pressing the **SCAN** button.
10. Scan the barcode of the strip vial.
11. **Insert Strip** screen appears and gently insert the strip into the meter with the electrodes facing up and toward the test strip port.
12. Once the strip has been properly inserted, the **Apply Sample** screen appears. **NOTE:** For patient safety, check the patient ID that's displayed on the meter to make sure that it matches the armband patient is wearing.
13. Cleanse finger with alcohol and allow it to thoroughly dry. (Alcohol at the puncture site must be dry or an error code/inaccurate result may occur).
14. Prick finger with lancet. Squeeze the finger and wipe off the first drop of blood with a dry cotton ball or gauze. Squeeze finger again, touch and hold drop of blood to the edge of the test strip and the blood will be pulled into the strip. Meter will beep after a sample is recognized. Completely cover the yellow target area and add the second dose within 15 seconds. Do not smear the blood on top of the yellow target area.
15. A screen with an hourglass is displayed while the meter completes the test.

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16. Once the test is completed, an audible beep is heard and the patient result is displayed on the screen.
17. Repeat any result with a critical value, and with “HI” and “LO” results.
18. Enter proper comments, if necessary by pressing **COMMENTS** and choose the appropriate one. Up to three comments can be entered for each result. Custom comments can also be applied.
19. Press the ► button when finished entering the comments or to return to the main menu. Press **PATIENT TEST** again to repeat the same patient or to do another patient. Remove the test strip and discard according to the Infection Control policy.
20. Follow your department SOP for entering result in Cerner.

LIMITATIONS:

1. These test strips are for testing capillary, venous, neonatal, cord blood and arterial blood.
2. Do not use during xylose absorption testing.
3. If patients are currently using drug therapies that contain or break down into maltose or galactose, do NOT use the Accucheck Confort Curve test strip. Drug therapies include peritoneal dialysis solutions containing icodextrin, Octagam 5% for immunoglobulin therapies, and IV solutions containing maltose as a means for patient hydration.
4. Parenteral administration of interfering products, i.e. of any product containing or metabolized into maltose (e.g. icodextrin, immunoglobulins, abatacept, tositmomab, etc), galactose or xylose, may cause overestimation of blood glucose results. Blood concentrations of galactose >10mg/dl or maltose >16mg/dl will cause overestimation of blood glucose results.
5. The following compounds, when determined to be in excess of their limitation, may produce elevated glucose results:
Bilirubin (unconjugated) >20mg/dl
Lipemic Samples >5000mg/dl
Acetaminophen >8mg/dl
Uric acid:
(Hypoglycemic range) >10mg/dl
(Euglycemic range) >12mg/dl
(Hyperglycemic range) >16mg/dl
6. Hematocrit range is 20-65% for glucose measurements less than 200 mg/dl and 20-55% for glucose measurements greater than 200 mg/dl.

REFERENCED:

1. Roche Operator’s Manual Accucheck Inform.
2. Accu-Chek Comfort Curve Linearity Kit package insert.
3. Accu-Chek Comfort Curve package insert.