



ARMY MEDICINE
Serving To Heal...Honored To Serve



Point of Care Testing: ACCU-CHEK[®] Inform II Glucose Meter



Why Training?



- The use of blood glucose meters by untrained staff, without adequate management supervision of the equipment and without the use of quality control procedures, can lead to misleading results, adversely affecting the treatment of patients”
- Newcomers must have competency assessed: initially at 6 months, 1 year and annually thereafter.

Accu-Chek Inform II



Accu-Chek Inform II



Base Unit (BU)

- Automatic data transfer and battery charge.
- Green light – standby
- Red light – data transfer

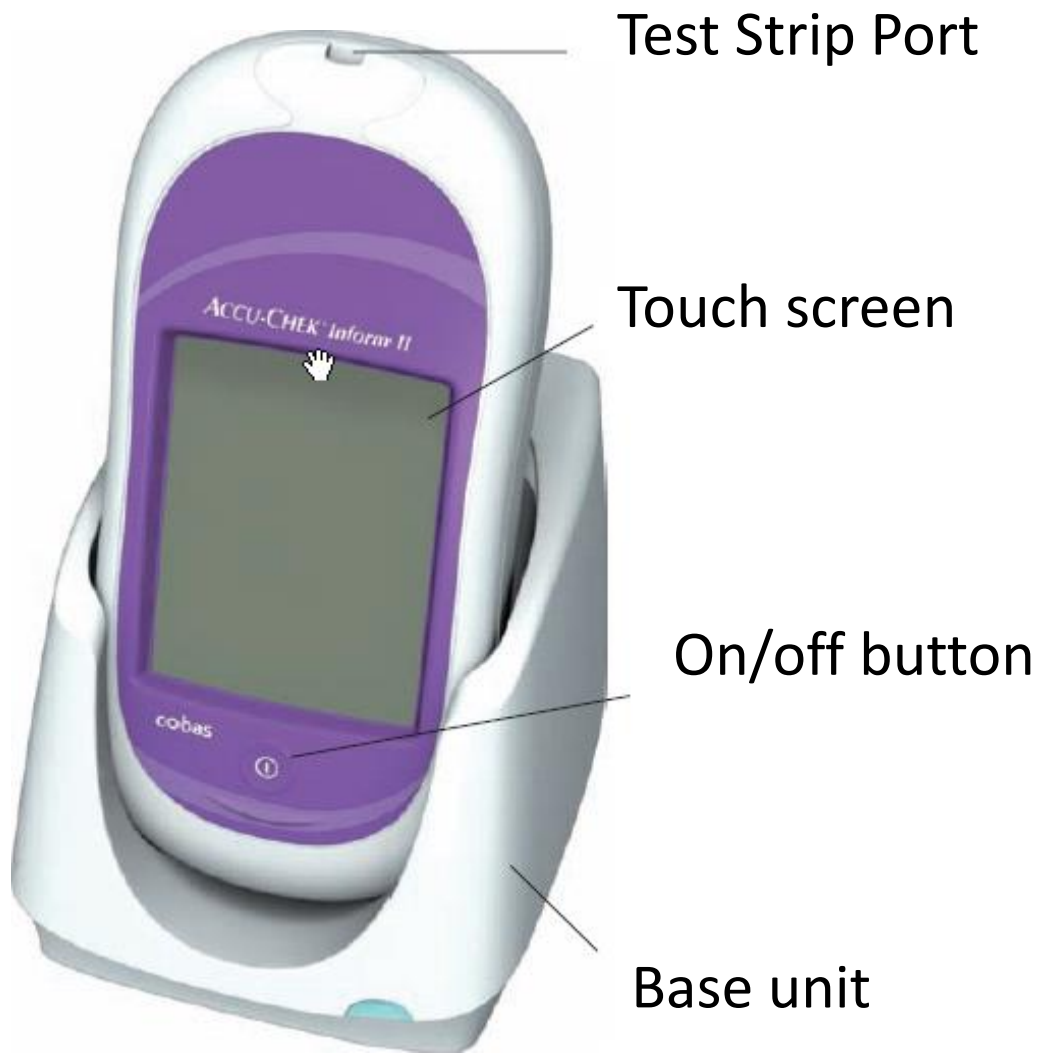


Tote Box

Meter, strips, Control 1 & 2, lancets

Accu-chek Inform II

**FRONT
VIEW**



Accu-Chek Inform II



Test Strip Port

Touchscreen-
Main menu
with 3 options
(finger touch
only)

On/Off Button



Barcode Scanner (Laser)

- Operator ID
- Patient ID
- Control Solution 1 & 2
- Inform II strip vial

**FRONT
VIEW**

Accu-chek Inform II

Back View

Bar code scanner

Battery Pack

Infra-red window
for communication





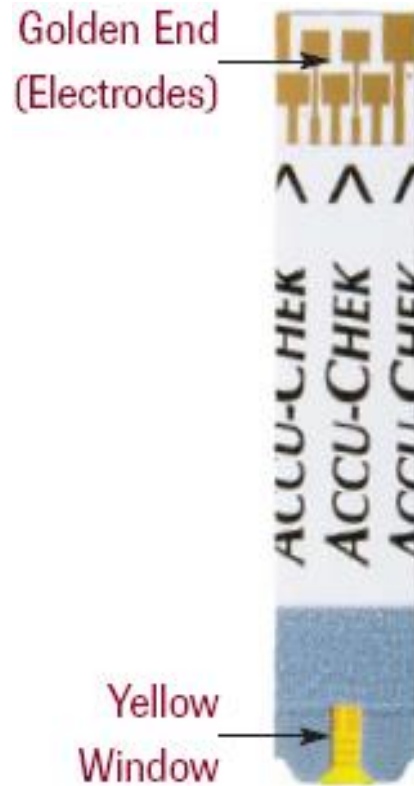
Accu-Chek Inform II Strips



- **Code Key information loaded by POCC**
- Stored @ Room Temperature
- Test Strip Code, Quality Control Range, Expiration and Lot # Bar Code is on each vial
- Scan or verify lot number with each use
- Once opened initial and date
- Replace cap immediately after each use
- Expiration date on vial is valid for “open” or “closed” vial expiration date



Accu-chek Inform II Strips



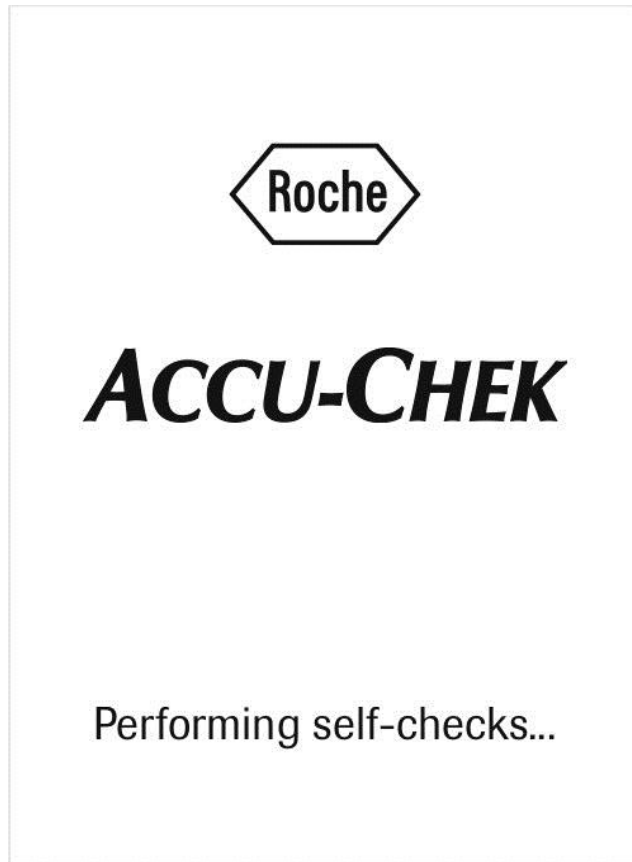
Sample volume detection

Robust End Dosing Strip

Fast 5 Second Result

0.6 μ L sample size

Power up screens

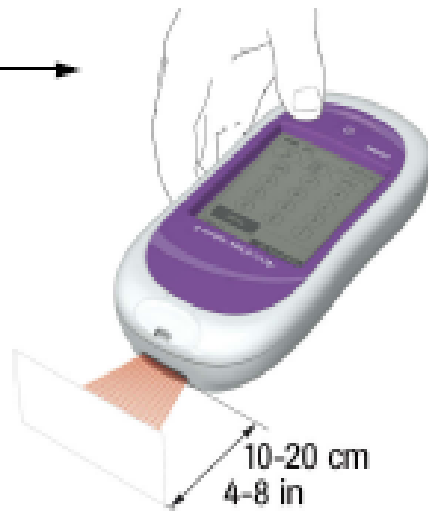
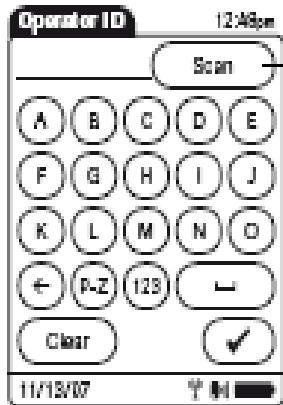


Start Up – User Identification.



Step 1: Press and release the On/Off button . The system is now on.

Step 2: The Power Up screen appears.



Step 3: Scan operator ID.
Operator ID is unique to user and needed for all activities

*** Do not share your operator ID/badge with other staff!**

Scan barcode on badge

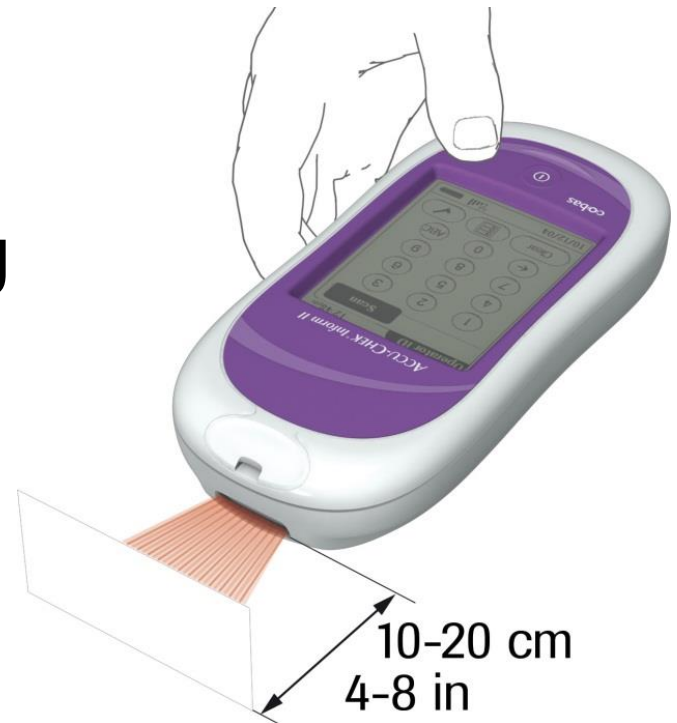
- **What is an Operator ID?**
 - Your DoD ID is your Operator ID and is used to identify you as the person performing a glucose test.
 - Scan the bar-code on the front of your badge.
 - If your ID comes up “Operator ID is invalid” try docking your meter and try again. If it still does not work, contact POCT Staff.



Remember:

Scanning is everything


- Scanning prevents manual entry errors and results going to the wrong patient chart.
- If you must manually enter a number, double check it before you press the enter button. This should be a rare issue.








Main Menu Screen




Main Menu 12:48pm

 Patient Test

 Control Test

 Review Results



11/13/07   



ACCU-CHEK® Controls:



When opening a new box of ACCU-CHEK® Controls,

- record the open date and 3 month expiration date on the vial
- Circle the manufacturer's expiration date printed on the label, if less than 30 days.
- Prior to performing QC, check the expiration date on the control vials.
- Store glucose control solutions at room temperature (less than 90°F, 32°C). Do not freeze.



Must write date when opened and 3 months to Discard along with initials



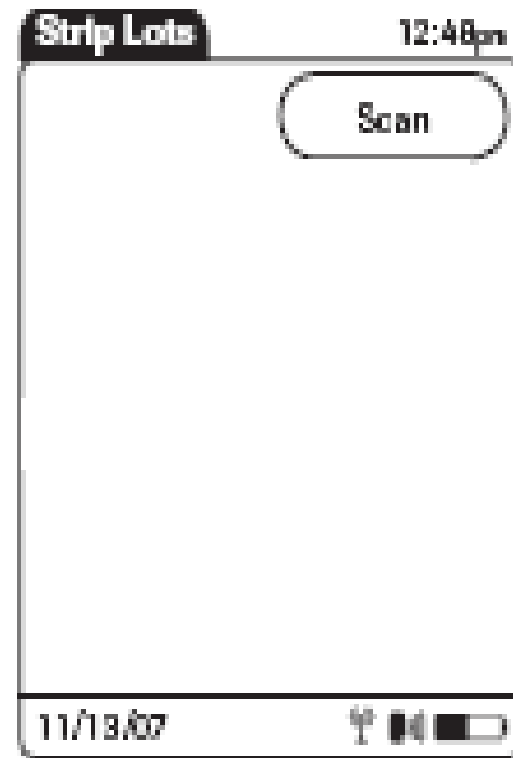
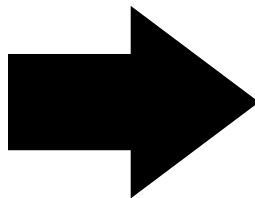
Quality Control Frequency



- **Control testing must be performed at the following times:**
 - Every 8 hours/every shift, or meters will lock out patients testing.
 - When a new vial of test strips are opened
 - When a vial of strips has been left opened
 - If the meter has been dropped

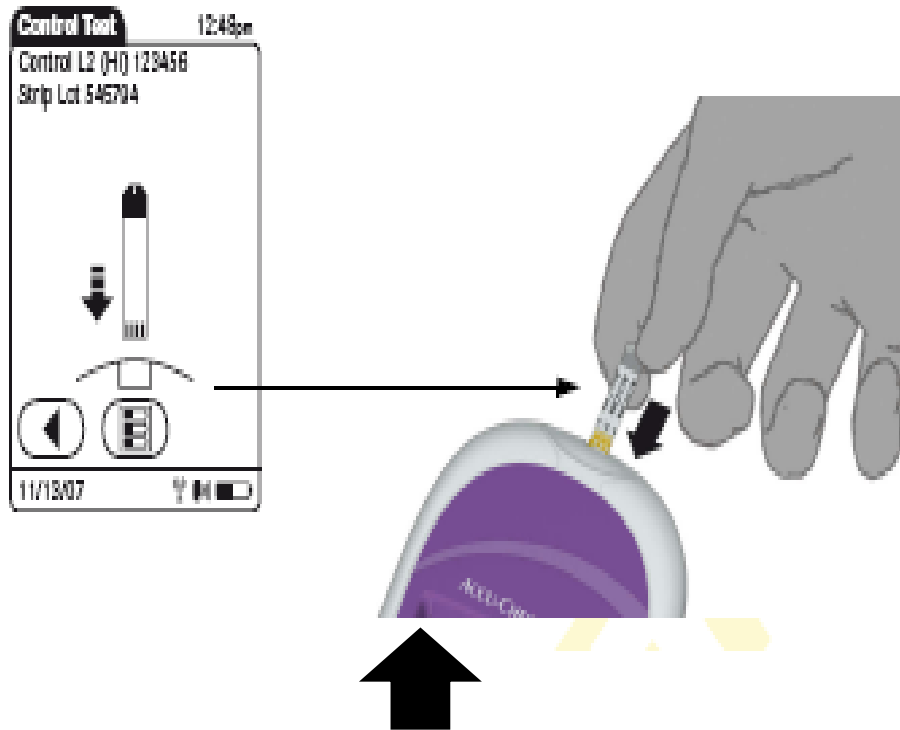
Control/ Strip Confirmation

Touch the scan symbol on the screen to enter the lot # of the Control/Strips



Scan the lot number on the control vial

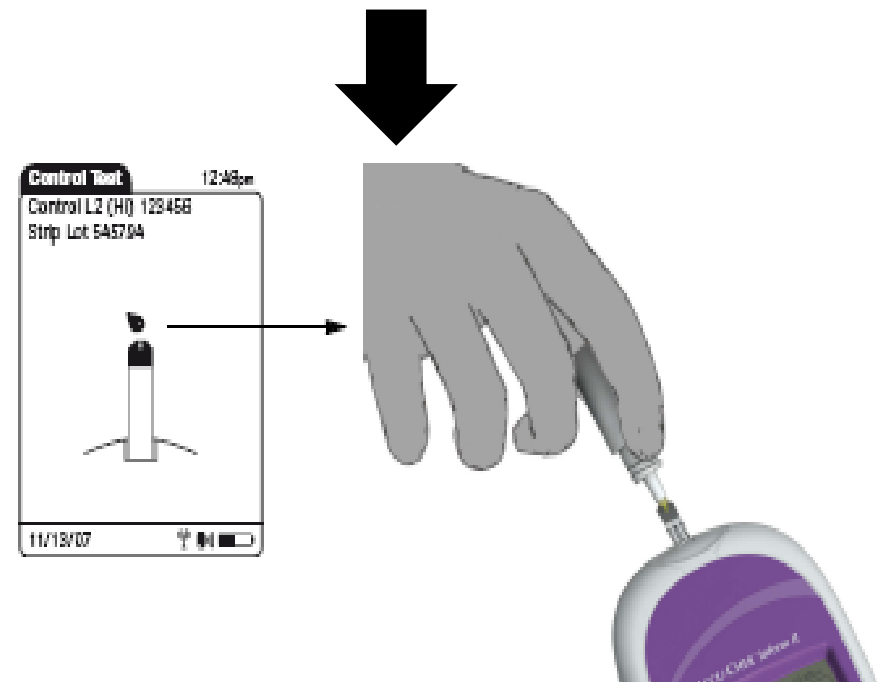
Scan the lot number on the test strips



“Flashing Arrow” symbol appears.
Insert test strip into test strip port.

“Flashing Drop” symbol appears.

- Meter is ready for QC sample.
- Remove cap and apply control solution.





Result Screen



Control Test 12:48pm

Control L2 (H) 123456
Date 11/13/07 12:48pm

PASS

Comments

11/13/07  

Control Test 12:48pm

Control L2 (H) 123456
Date 11/13/07 12:48pm

FAIL

Comments

11/13/07  



Actions for Failed Control Test



If “FAIL” appears touch “  ”. You may enter up to 3 comments.

- Repeat failed control.
- For “FAIL” control result consider the following.
 - The test strip vial has been left opened for a period of time
 - Procedural error
 - The test strip or controls have been exposed to very high or low temperatures
 - The control solutions are expired and/or contaminated.

NOTE: Report two consecutive failures to laboratory Point of Care Coordinator (POCC)706-787-8359

Start Patient Testing

- Scan your Operator ID Badge
- Select “Patient Test” on the screen.
- Scan the patient’s armband
- Note: If the patient’s armband cannot be scanned, carefully enter the patient’s ID number manually, and verify the identification in the meter before accepting the entry.



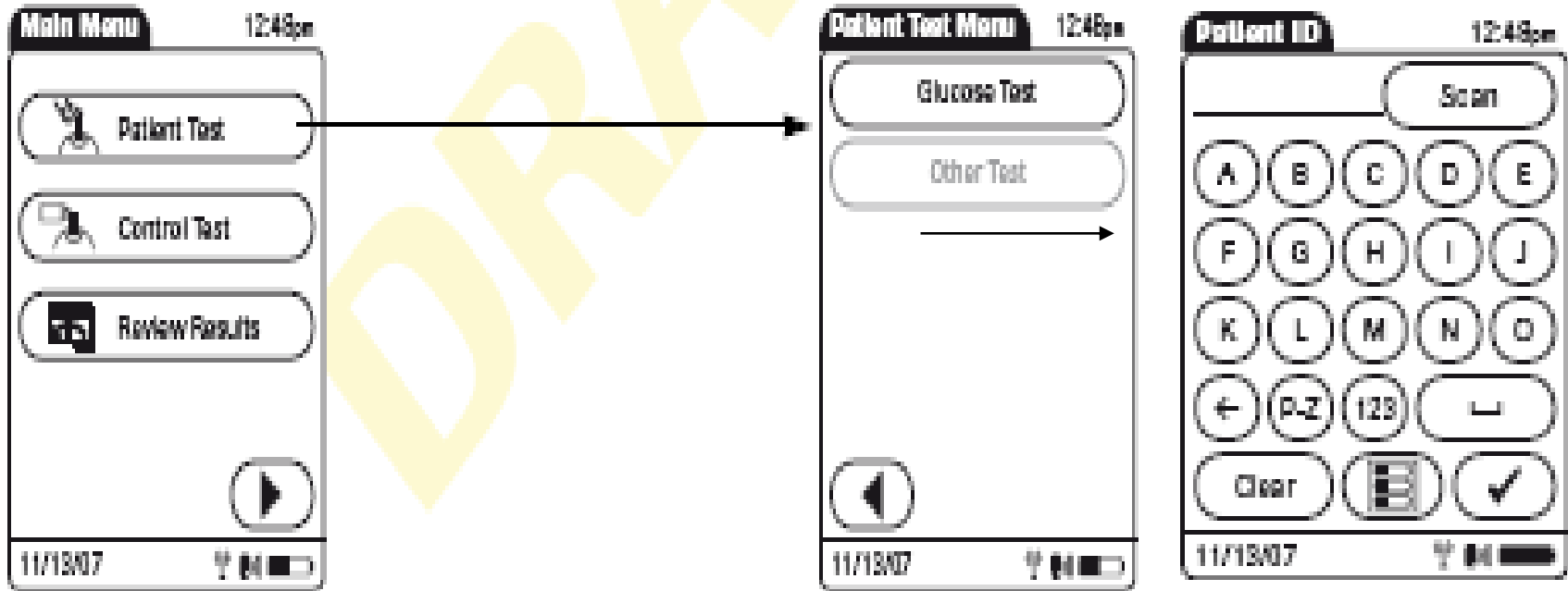


Always Identify the patient



- **Per Hospital policy all patients must be identified with two identifiers**
 - Full name and date of birth

Patient Testing



Step 1: Select patient test from menu

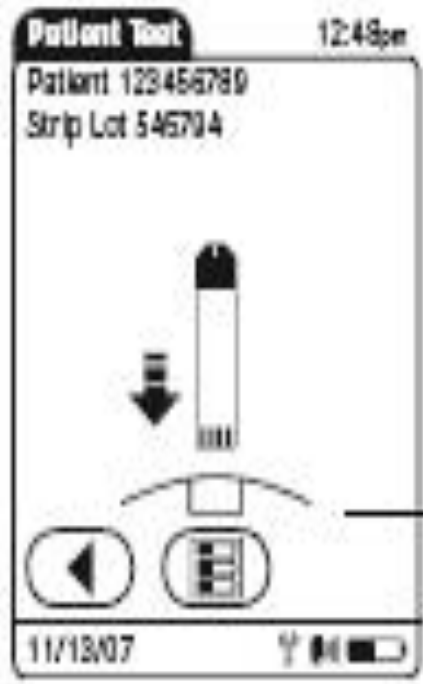
Step 2: Select Glucose Test

Step 3: Scan in Patient hospital number. (Meter will prompt you to confirm patient details)

Step 4: Scan in Test strips

Patient Testing

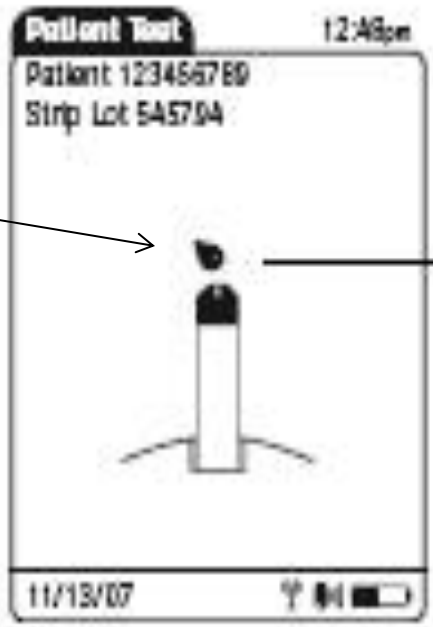
*** Check Patients details at top of screen**



- Check test strip code and insert strip.

Patient Testing

Apply patient blood when prompted.



****NOTE****

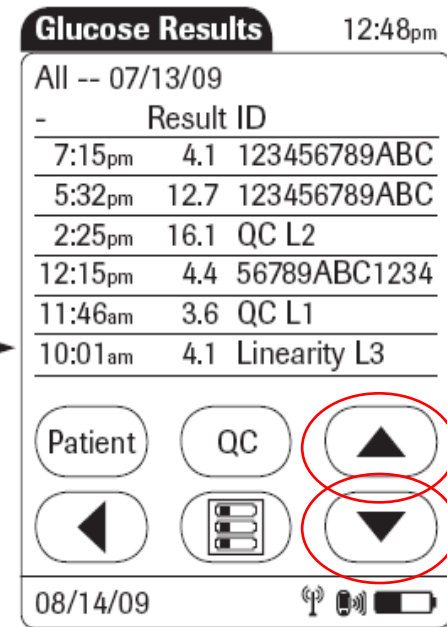
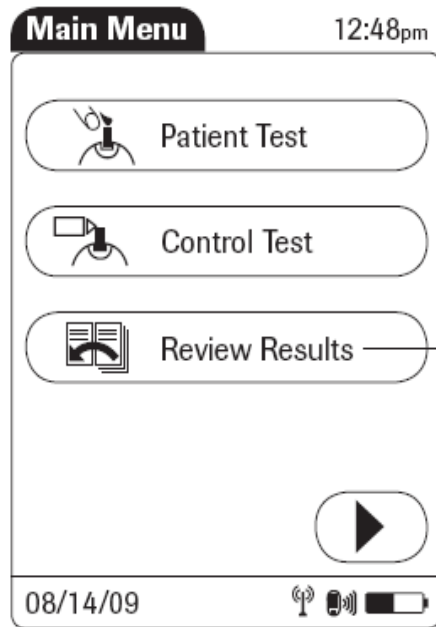
"Type Bad Dose" error indicates that the sample quantity is insufficient.

*** Make sure to wipe away the first drop of blood.**

Review Results

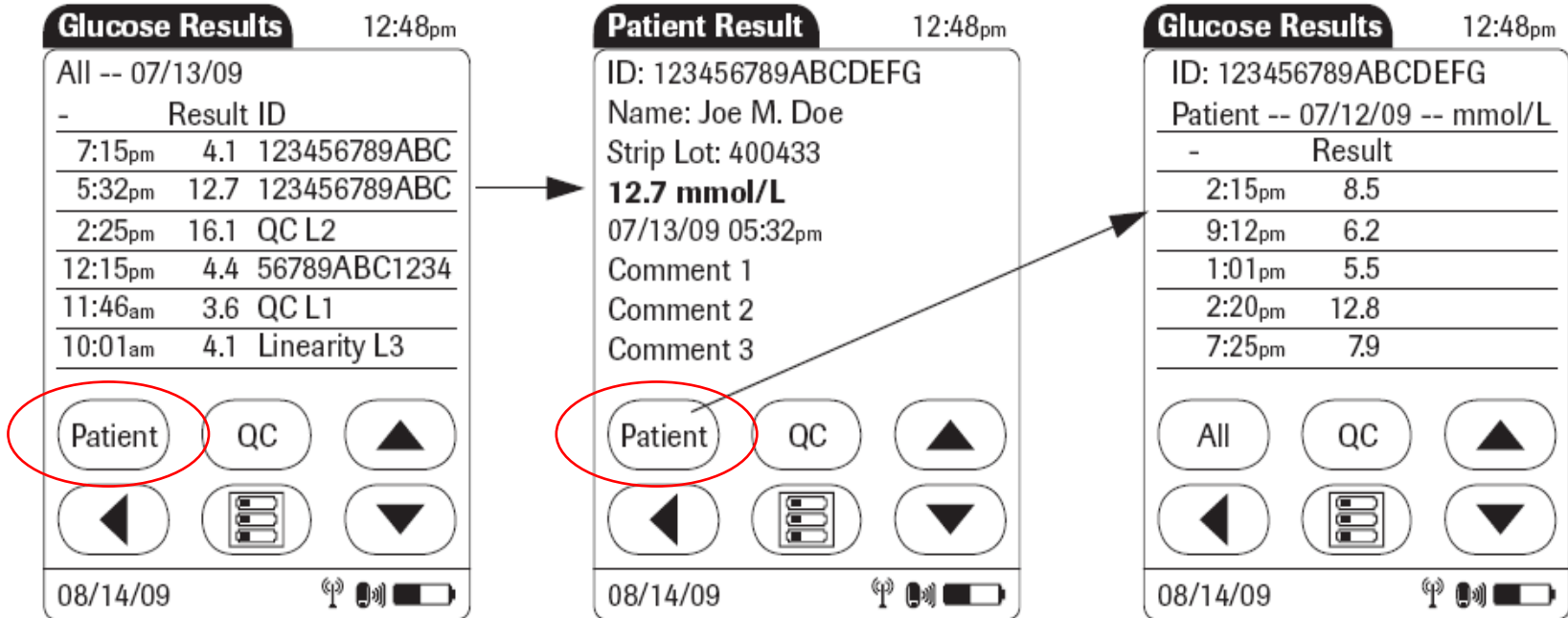
From main menu screen touch 'Review Results'. (Patient/QC)

Stored test results are displayed in a sequential list.



Touch  or  to scroll up or down in the list. Results are grouped by date.

Review Results Cont.



The image shows three sequential screenshots of a mobile application interface, illustrating the process of reviewing test results.

Screenshot 1: Glucose Results (12:48pm)
 All -- 07/13/09
 - Result ID
 7:15pm 4.1 123456789ABC
 5:32pm 12.7 123456789ABC
 2:25pm 16.1 QC L2
 12:15pm 4.4 56789ABC1234
 11:46am 3.6 QC L1
 10:01am 4.1 Linearity L3
 The 'Patient' button is circled in red.

Screenshot 2: Patient Result (12:48pm)
 ID: 123456789ABCDEFG
 Name: Joe M. Doe
 Strip Lot: 400433
12.7 mmol/L
 07/13/09 05:32pm
 Comment 1
 Comment 2
 Comment 3
 The 'Patient' button is circled in red.

Screenshot 3: Glucose Results (12:48pm)
 ID: 123456789ABCDEFG
 Patient -- 07/12/09 -- mmol/L
 - Result
 2:15pm 8.5
 9:12pm 6.2
 1:01pm 5.5
 2:20pm 12.8
 7:25pm 7.9
 The 'Patient' button is circled in red.

- Touch an entry in list to display related details.
- Touch 'Patient' symbol to display results for a specific patient only – Test results available with date and time of test only, no Patient specific ID.



Testing yourself or Co-Workers



- It is a work rule violation to test yourself or co-workers.
- Exception to this is an emergency, the person will need to go to the Emergency Room for assistance.



Clean meter Daily



Meter, Base Unit, and Carrying Case Cleaning Procedure:

- Meter must be turned off and the base unit must be unplugged prior to cleaning.
- Clean the outside of the Accu-Chek Inform II System with hospital approved disinfecting wipes only. With the meter upside down begin cleaning the device, avoiding the strip opening. Moisten all surface areas of the meter ensuring to remove all visible soil. Allow to dry according the hospital policy to be fully disinfected.
- Follow the same guidelines for cleaning the base, avoiding contact with the electrical leads



Interpretation of Results

Reference Ranges

POC Glucose Ranges

- Normal 70-100 mg/dL

DDEAMC Reference Ranges are:

- Critical LO= Less than 50 mg/ dL
- Critical HI= greater than 450 mg/dL

(If you get any of these values, it indicates the results are outside the reading range and you must repeat the test.)

- If you get a value that exceeds the normal range value but in within the high and low parameters please ensure you notify the HCP and notate this value in the patients record.

****NOTE:** The meter will read as low as 10 mg/dL and will be indicated by a reading of “LO” on the meter display. It will read higher than 600 mg/dL and will be indicated by a “HI” reading on the meter display.**



Alert Values



**** All alert values must be repeated using a fresh sample from new stick.

Actions taken must be documented in the meter by entering a comment.

- Report to caregiver or provider, and follow his/her recommendations.
- Alert values obtained must be reported immediately to the care nurse for assessment of the patient.
- Results must be verified by the clinical laboratory if requested by the provider.



Limitations



Due to medical conditions:

- Hematocrit should be 10-65%
- Lipemic samples (triglycerides) >1800 mg/dl
- Galactose blood concentrations >15 mg/dL
- Impaired peripheral circulation

For further information refer to Test Strip package insert or
SOP



Proficiency Testing



- Proficiency Testing (PT) will be delivered 3 times per year.
- Each sample will need to be performed on all meters on your unit.
- Independently, run samples in **PROFICIENCY TESTING** mode, a POCT Staff member will be present to assist.
- Record the results on the form provided.
- If an operator's performance results in an out-of-range PT, the POCT staff will observe, using the same specimen, to re-access their competency.

cap WBG-B 2013
KIT 26099365 1 01 10
Page 1
Results must be received at the CAP no later than midnight. Central Time by the due date below.
July 9, 2013
CAP # 145701 - 12 SEQ # 01
POC/MS
DAUGHT D EISENHOWER ARMY MEDICAL CENTER
GRANDCAYLN WALTER CGAC MT
TELE 1-706-781-8291 FAX 1-706-781-2227

Whole Blood Glucose Survey Result Form

Reporting Code Selection

✓ If your method summary page states, "Please Provide a Valid Code"
✓ If your code is listed incorrectly, or
✓ If you have changed your methodology,
Please the master list for an appropriate code and enter it on the result form. If there is no master list, select the code directly on the result form.

If you cannot find an appropriate code:
Select Other from the kit instructions or master form and "Other" your method in the Use of Other section of the master form.
If you need assistance, please call the Customer "Contact Center" at 800-323-4040 option 1 (domestic), or 847-453-1700 (other international).

View the e-LAB Solutions™ user guide via cap.org

Results

Alert! Please select a unit of measure. Unit of Measure: mg/dL mmol/L

Site	Instrument Code	Descriptive Code	WB-06	WB-07	WB-08	WB-09
Site A	1 4 1 1	11 22 33	4 7 . 0	1 1 9 . 0	3 7 0 . 0	3 0 2 . 0
Site B	1 4 1 1	11 22 33	4 4 . 0	1 1 9 . 0	3 5 8 . 0	3 1 2 . 0
Site C	1 4 1 1	11 22 33	4 8 . 0	1 1 9 . 0	3 7 7 . 0	3 0 3 . 0
Site D	1 4 1 1	11 22 33	3 6 4 . 0	4 8 . 0	7 1 1 . 0	1 2 4 . 0
Site E	1 4 1 1	11 22 33	3 7 0 . 0	4 9 . 0	1 2 4 . 0	3 2 5 . 0



Summary



- **Finger stick:**

- ✓ Remove/dry all alcohol from puncture site.
- ✓ Wipe first drop of blood off and use second drop for testing.

- **Applying Sample:**

- ✓ Make sure the yellow target area is filled with blood.
- ✓ Do not lay meter on soft surfaces.

- **Repeat test if results are critical or if they appear inconsistent with patient's symptoms.**

- **Close lid containing strip promptly.**



Training Competency



Step One

- Print out the documentation showing you have passed the test.

Step Two

- Let your Unit POCT Trainer know you have completed this portion of your training and present him/her with documentation.

Step Three

- Demonstrate your performance of a ACCU-CHEK® Inform II Glucose test for your trainer. Have the training documented on your glucose competency sheet and have your Unit POCT Trainer submit a memorandum to the POCT Staff so your information can be updated in the system.

Step Four

Place all certificates and training records in your CAF Folder.



References



- POCT 5.4 WHOLE BLOOD GLUCOSE TESTING ACCU-CHEK INFORM® II SYSTEM
- POCT 5.0 Quality Control/Quality Improvement Policy



Competency Assessment



POINT OF CARE TESTING (POCT) COMPETENCY ASSESSMENT CHECK-LIST

Source of Performance Standard: Care of Patients-Continuum of Care- Point of Care Testing

monstrates Point of Care Testing competency related to specific skills and procedures IAW Point of Care Testing standards.

CRITICAL BEHAVIOR (SOURCE OF PERFORMANCE STANDARD)	* Self Assess	+ Evaluation Method	Type of Assessment											
			Initial				Six Month				Annual			
			Pass (Y/N)	Initials		Date	Pass (Y/N)	Initials		Date	Pass (Y/N)	Initials		Date
				Operator	Trainer			Operator	Trainer			Operator	Trainer	
ACCU-CHEK INFORM II GENERAL FORMATION	CRITICAL THINKING: Perform procedures and evaluate results.													
.. Read Standard Operating Procedure (SOP).														
. Obtained 80% or above on a written assessment.		W, L, PE	Y			9/10/14								
. Identifies equipment parts and supplies.		W, L, PE	Y			9/10/14								
. Demonstrates knowledge of ON/OFF features of the Accu-Chek Inform II meter		W, L, PE	Y			9/10/14								
. Knowledge of instrument (LOCK OUT) when the Accu-Chek Inform II information has not been downloaded to the database.		W, L, PE	Y			9/10/14								
. Knowledge of the location of the Owner's Manual and the Error Code interpretations.		W, L, PE	Y			9/10/14								
. Understands and perform appropriate instrument Maintenance.		W, L, PE	Y			9/10/14								
ACCU-CHEK INFORM II QUALITY CONTROL (QC)	CRITICAL THINKING: Perform procedures and evaluate results.													
.. Read Standard Operating Procedure (SOP).														
. Knowledgeable about stability and storage of control strips and liquid control solution.		W, L, PE	Y			9/10/14								
. Understand calibration (Code Key) procedures and understands when Code Key is necessary.		W, L, PE	Y			9/10/14								
. Understands proper troubleshooting when control is not within the acceptable range.		W, L, PE	Y			9/10/14								
. Knowledge of proper documentation of any QC issues.		W, L, PE	Y			9/10/14								



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