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Life needs answers



Diagnostics

Accu-Chek Inform II Blood Glucose Monitoring System.



Ancillary Testing Coordinator:

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Training Objectives



By the end of this session you will be able to:

- Explain why training is required.
- Identify contraindications/test interferences.
- State Why and When you have to quality control your meter.
- Perform a Quality control and patient test as per SORCC Policy.
- Identify Point of Care contact on site and where you get your meter supplies.

Why Training?

- ***Because our patients deserve quality results and care.***
- ***To minimize adverse effects.***
- ***It is a CAP and JCAHO requirement.***

Clinical Indications



- Any patient requiring testing for the purpose of monitoring and managing diabetes control or glucose levels.

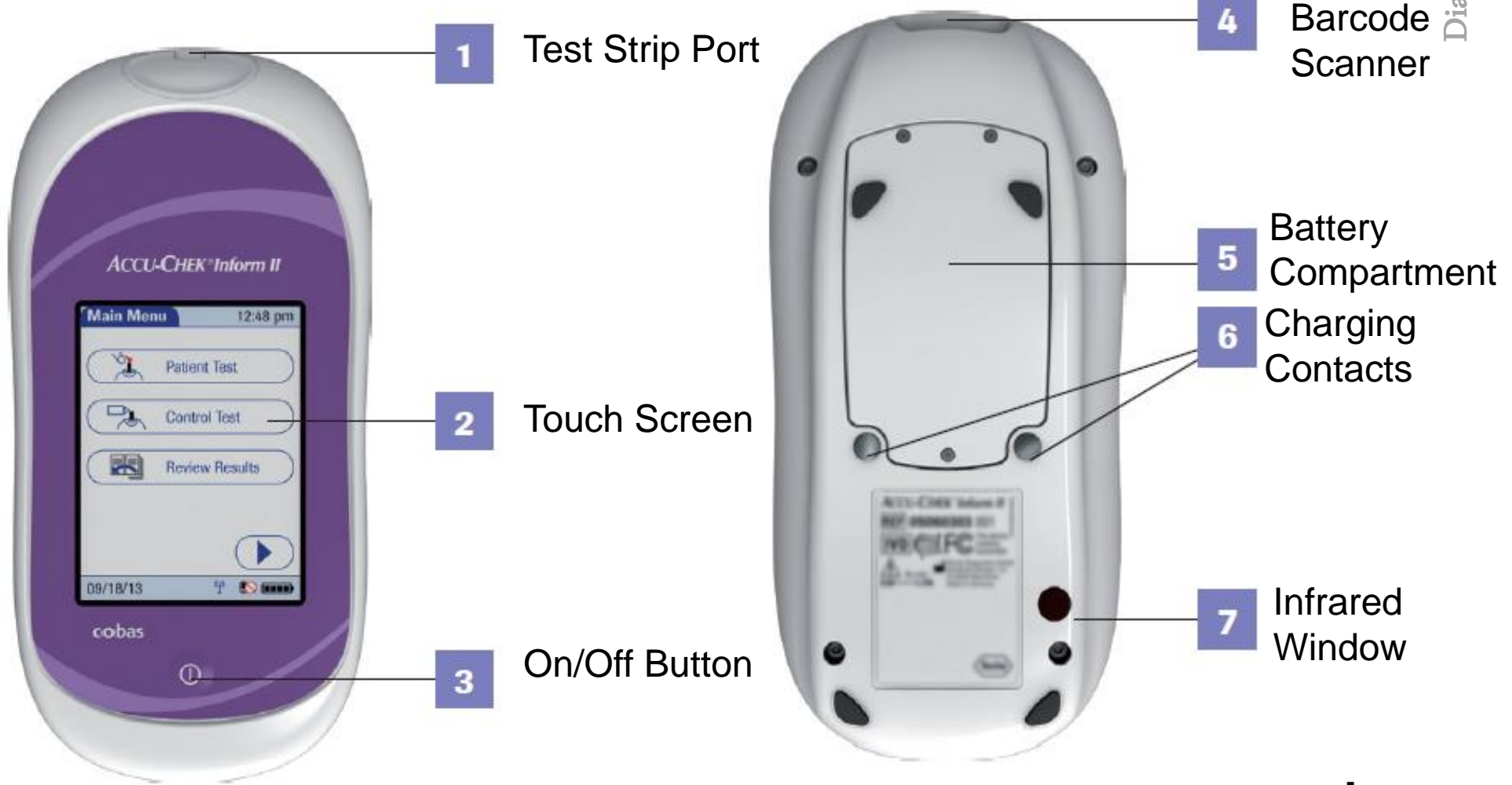


LIMITATIONS.

- Hematocrit should be between 10-65%
- IV administration of ascorbic acid resulting in >3 mg/dL. (May cause overestimation)
- Galactose >15 mg/dL (May cause overestimation)
- Lipids Triglycerides >1800 mg/dL (May increase glucose)
- Dehydration
- Hypotension
- Shock
- Peripheral Occlusive Disease
- Hyperosmolar Non-Ketotic Coma
- Diabetic Ketoacidosis
- Unconscious Patients
- Decompensated Heart Failure NYHA Class IV



Meter and Supplies



Supplies (cont.)



Control reagent and test strips are obtained from the lab.

Logistics is responsible for supplying lancets.

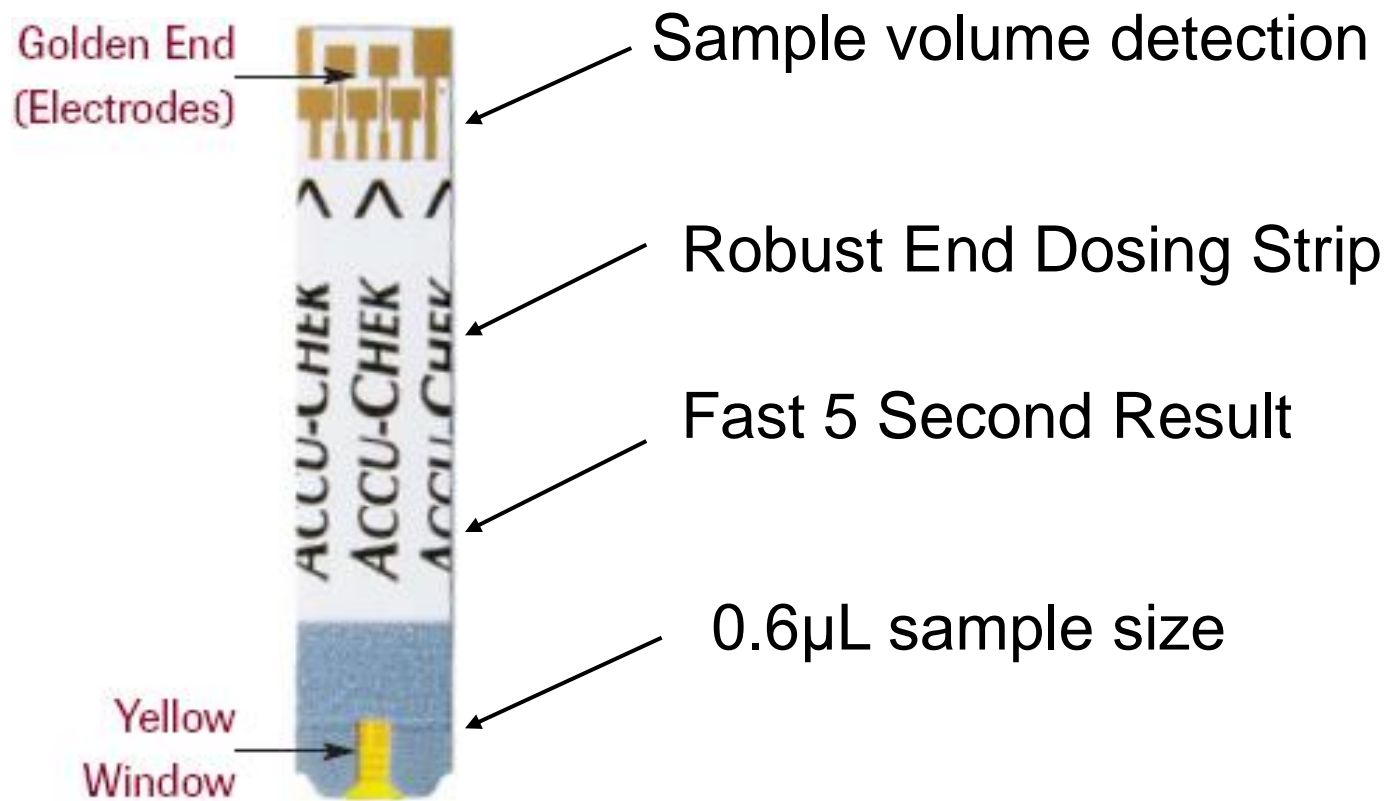


***Once opened, strips are good until expiration date on bottle.**

***Quality Control Reagent:
Good for 90 days once opened.
You MUST put EXPIRATION date on the bottle.
Circle manufacturer's expiration date if it is less than 90 days after opening.**



Accu-Check Inform II Test Strip.

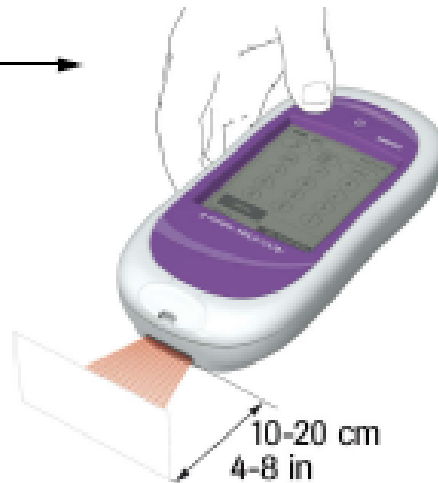
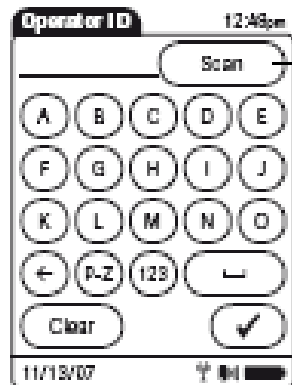


Start Up – User Identification.



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

2 The Power Up screen appears.



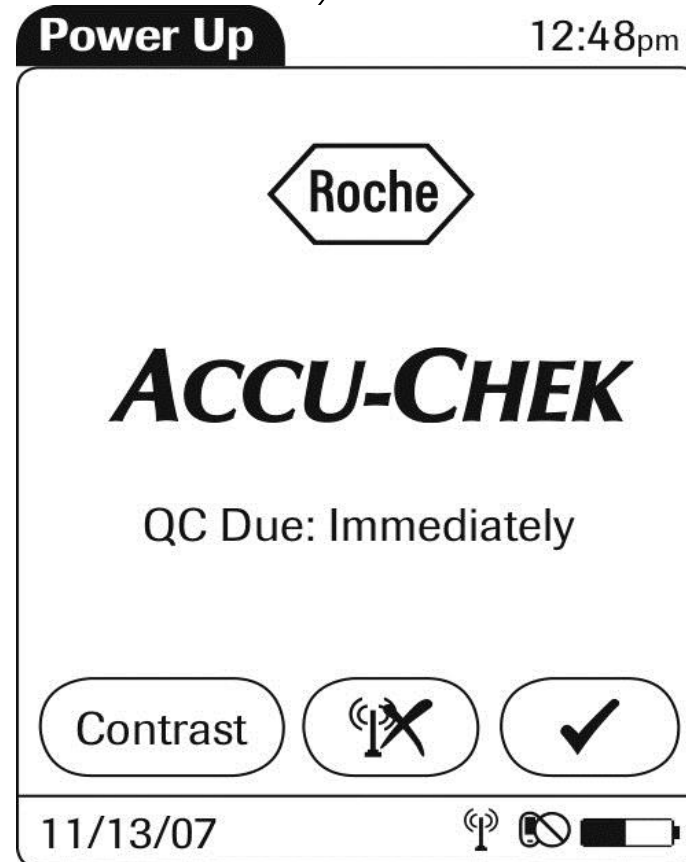
- User ID is 4 digits long (last 4 of SSN)
- User ID unique to user and compulsory for all activities

Accu-Chek Inform II

Power up screens

You will see the following screens:

There may or may not be “QC Due: Immediately”

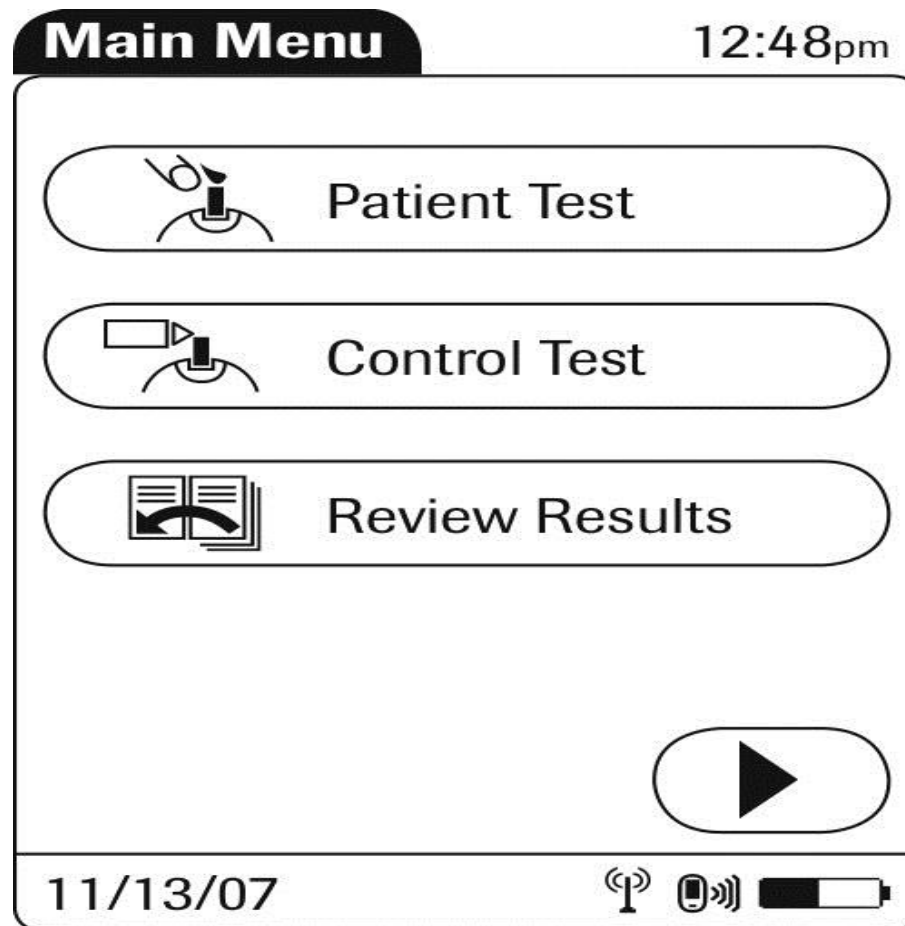


Main Menu Screen Shot.



Diagnostics

- Perform QC if prompted or action is needed by choosing “Control Test”



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Quality Control Testing



Why Quality Control?

To ensure meter and strips are operating properly.

When to Quality Control?

Once per 24 hours

When new lot of strips are opened.

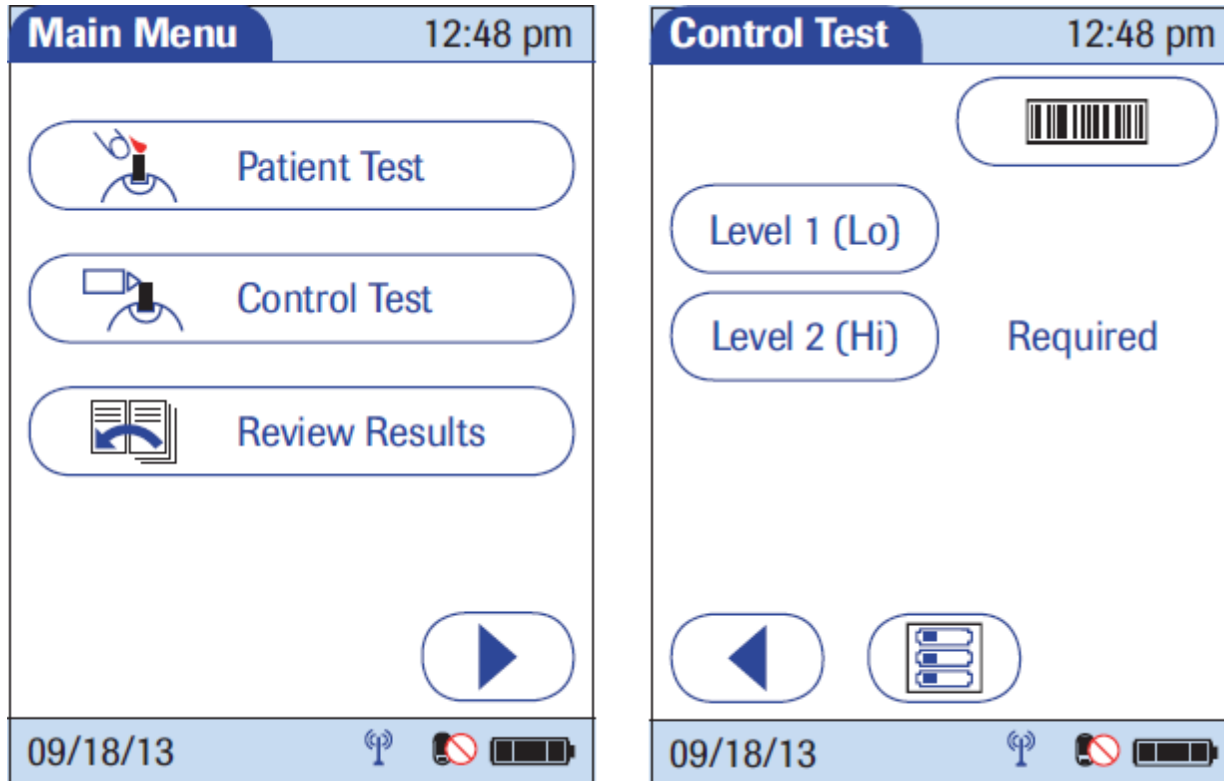
When a new lot of reagents are opened.

When you notice strips have been left open.

When you suspect erroneous results.

Anytime the meter has been dropped or mis-handled.

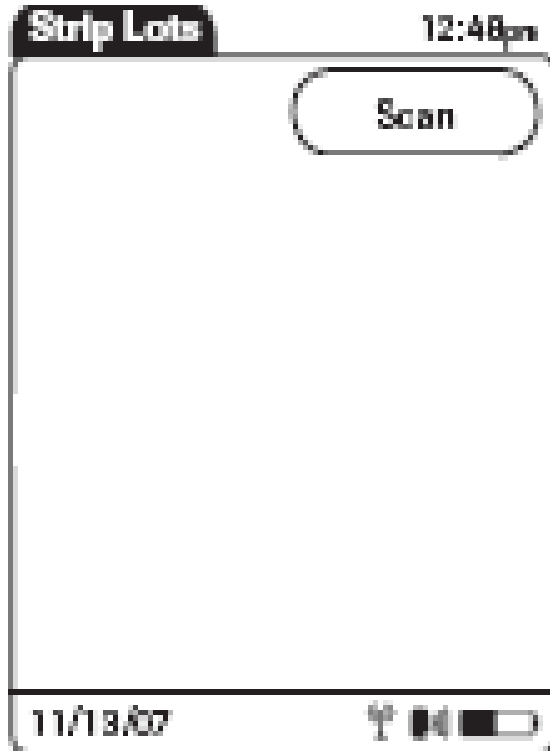
Quality Control Screens:



1. Press “Control Test”

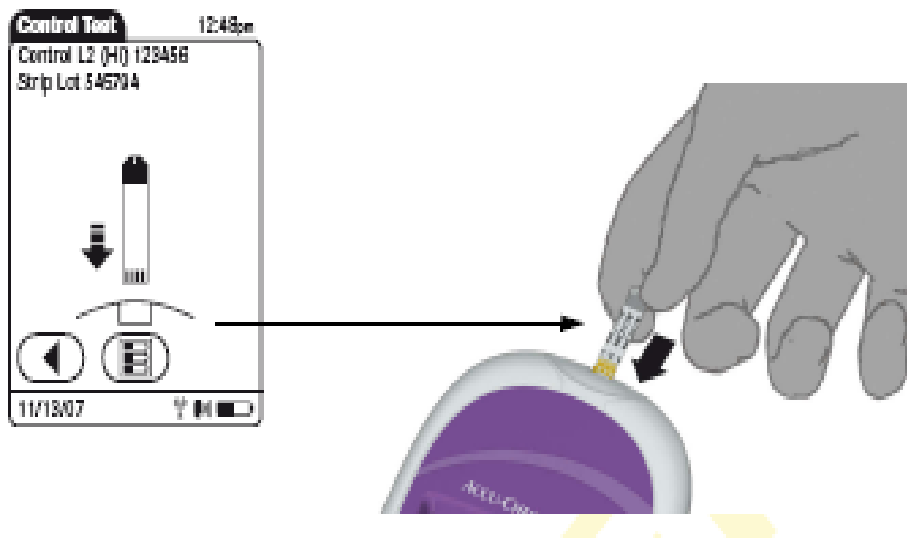
2. Press barcode icon and scan control vial.

Strip Confirmation Screens



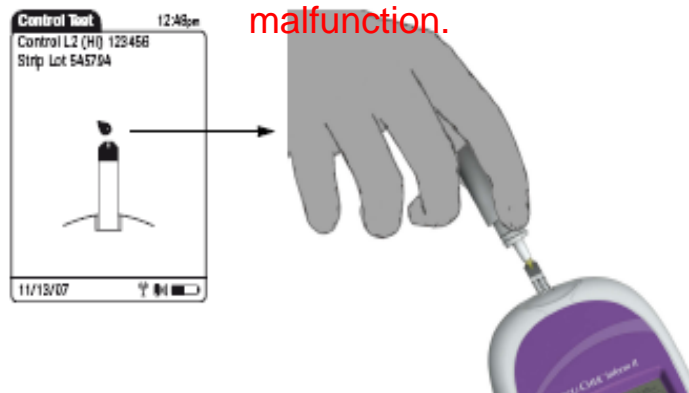
From this screen press scan (barcode icon), then scan the strip vial.

Performing a Quality Control Test.

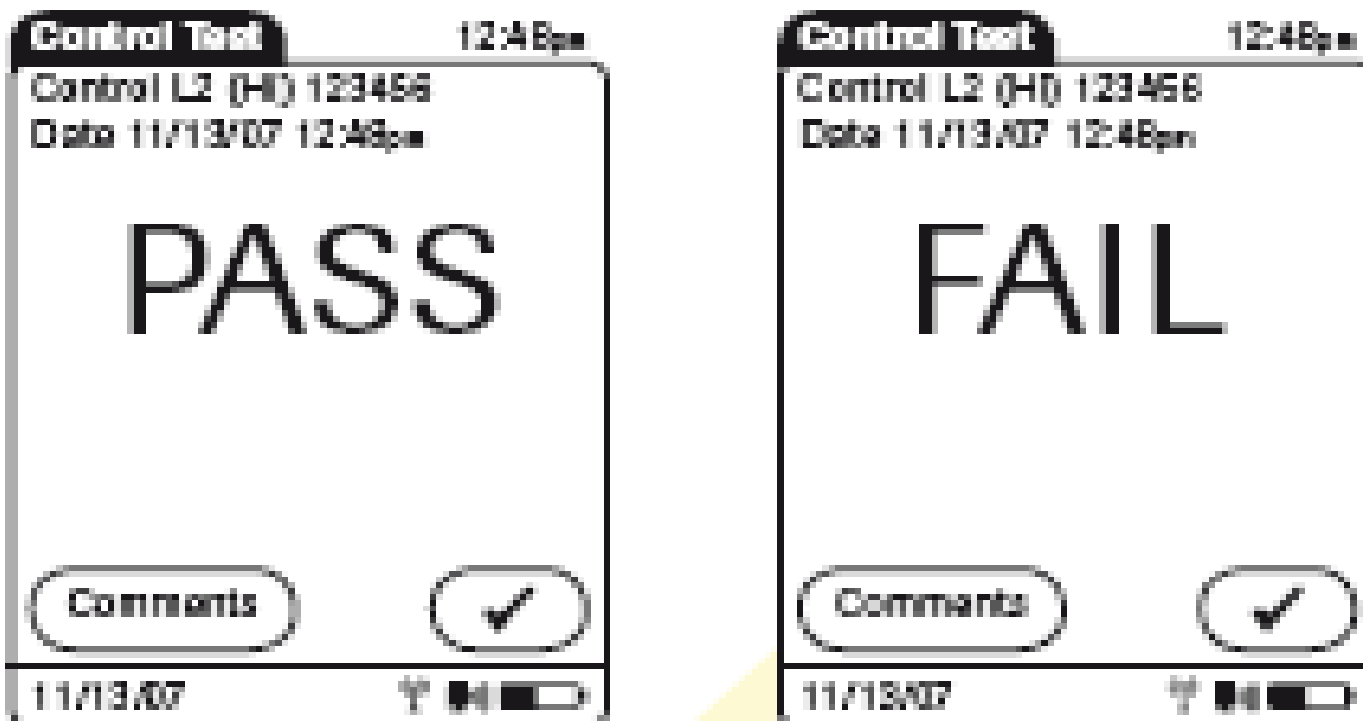


Insert strip and wait for the screen with the droplets to appear prior to placing control drop.

**Note: Ensure you mix the QC vials prior to testing. Failure to mix is the main cause of QC errors. Also, the drop does not get placed on top of the yellow portion but rather the very end of the strip. DO NOT hold the meter in an upright position when performing QC. The QC liquid will drip in the strip port and will cause the meter to malfunction.*



Result Screen:



Note: If using the lab meter you may see numerical values, press the “range” button to make sure QC result is within range.

Failed Quality Control Test

- **Level 1 & 2 solutions must pass QC test.**
- If test displays **FAIL**: Add Comment and repeat test.

Troubleshoot:

- Ensure there are no bubbles present at tip of control vial when performing test. Mix samples adequately.
- Check expiry dates, mix/change QC solutions & test strips – repeat test.
- Contact ATC in the lab to report fault and obtain replacement meter.

If meter continues to fail DO NOT use it!

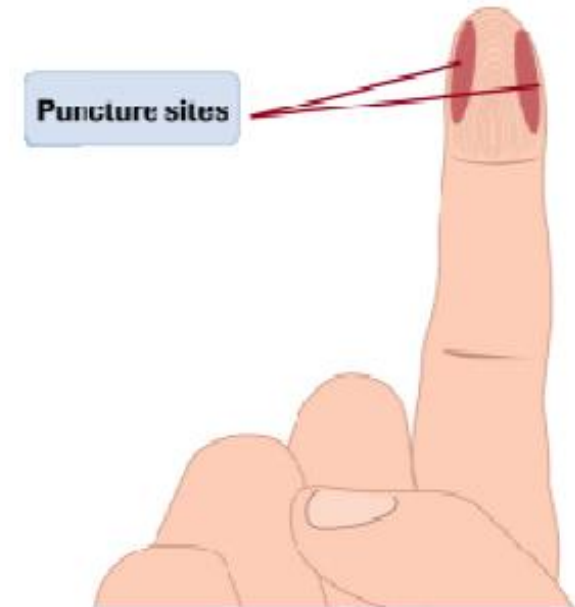
Quality Control Review:

- Checks accuracy of test strips and Inform Meter.
- Level 1 & 2 controls **MUST** be analyzed **every 24 hours** – otherwise the user will be locked out for testing patient samples.
- The meter will “lock” when QC has expired.
- Expiration date must be on control reagents. (Good for 90 days unless expiration date on bottle is earlier.)



Preparing to Test

1. Operator to wash hands.
2. Identify patient.
3. Select, prepare and organize equipment.
4. Put on gloves.
5. Select site for skin puncture.
6. Clean and dry the site.



***Note:** Site needs to be clean and dry otherwise it interferes with the accuracy of the result. Also to avoid contamination by food, dilution with water, alcohol and to reduce risk of infection.

Preparing to Test



7. Hold finger firmly.

8. Position the lancet on the site and depress the plunger to make puncture and remove, discard lancet in puncture resistant needle disposal unit.

9. Apply gentle pressure toward the site to create a drop of blood at the puncture site.

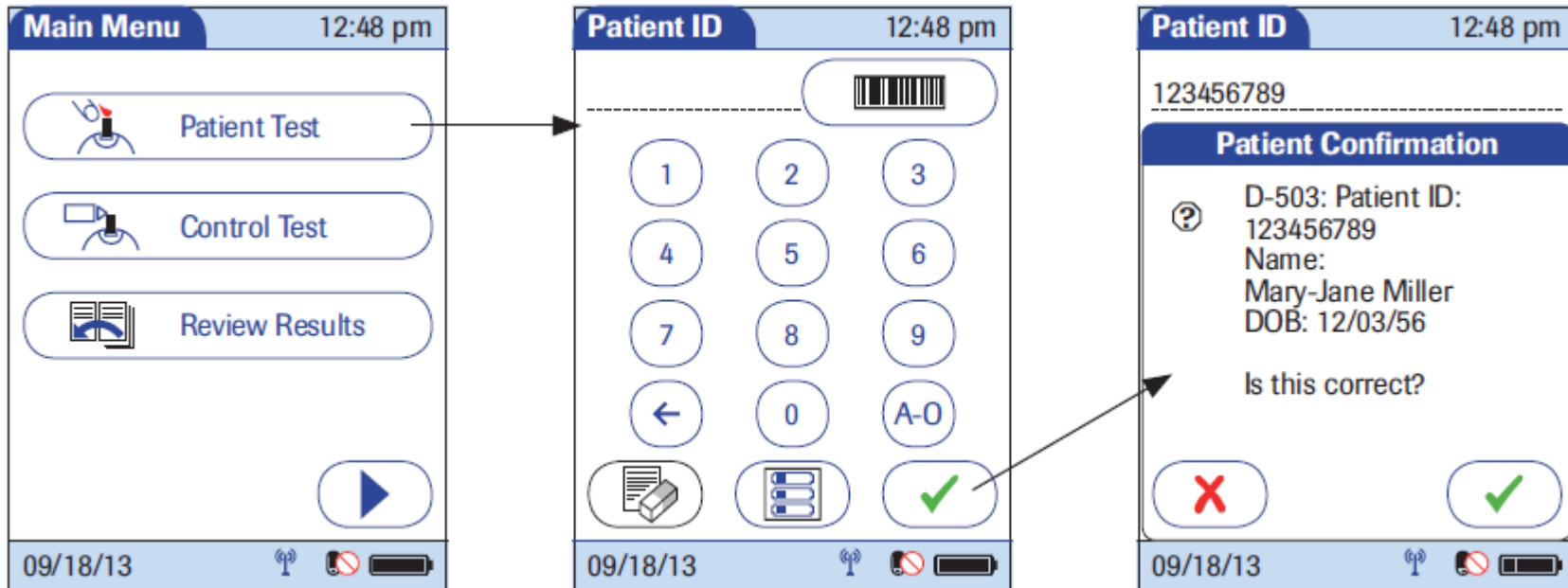
10. Wipe the first drop of blood from the puncture site, using gauze. Apply the second drop of blood to the test strip.

11. Run test.

12. When complete remove gloves and wash hands.

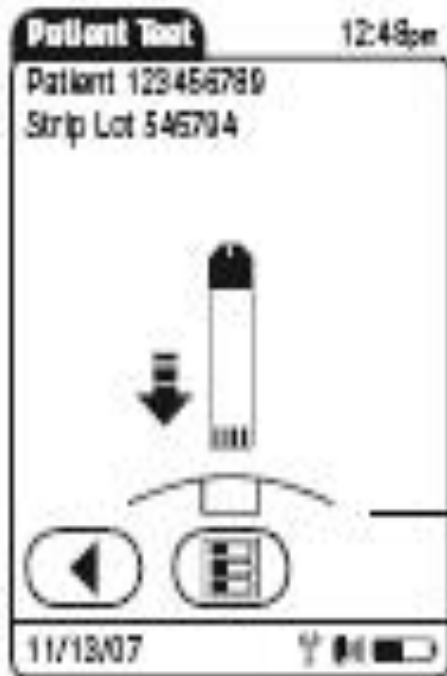


Patient Testing.



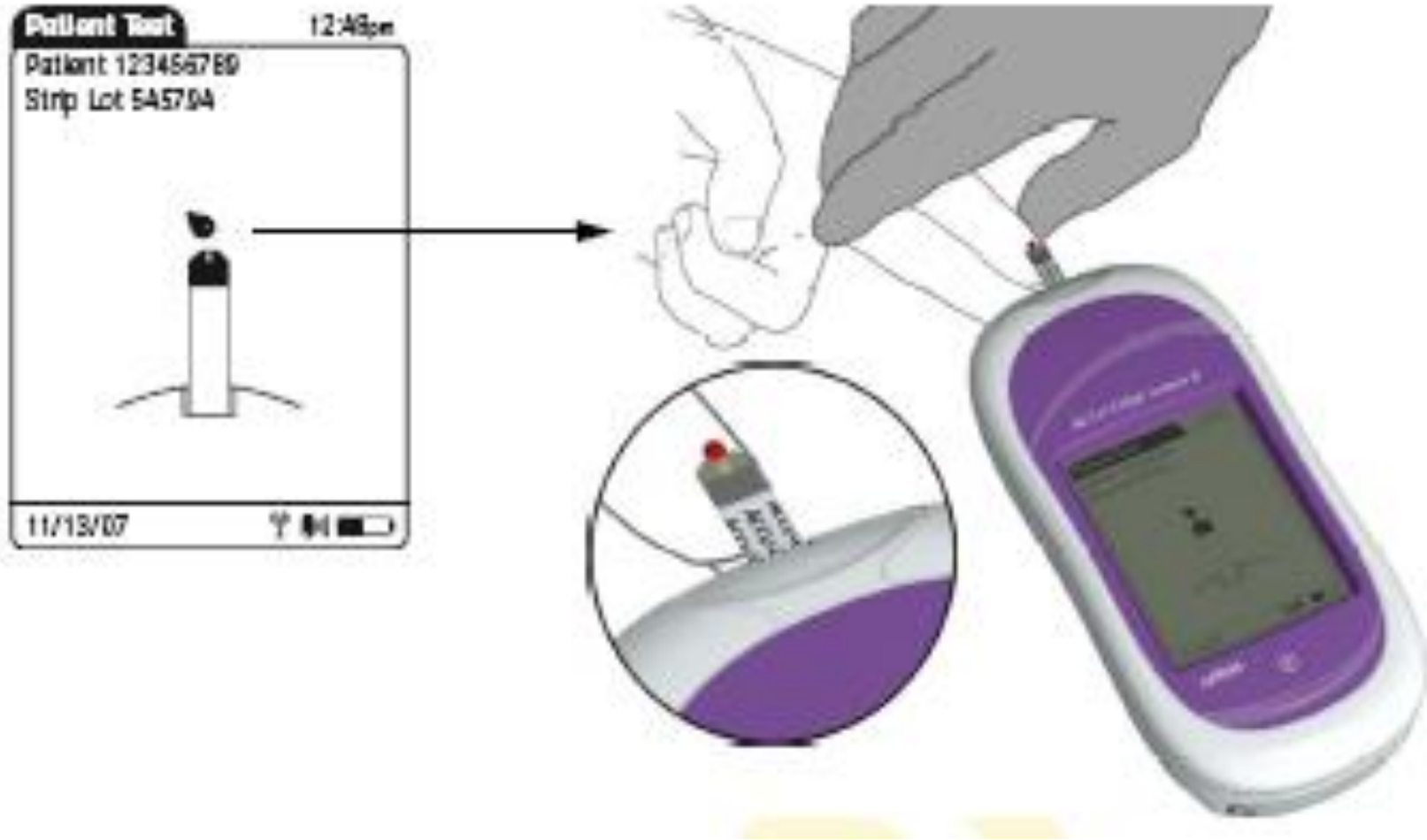
- Select patient test from menu
- Scan patient badge. (If pt. does not have badge, ensure you enter correct ID number)
- Meter will prompt you to confirm patient details
- Scan in Test strips

Check test strip code and insert strip.



~ Check Patients details at top of screen

Apply patient blood when prompted.



Always perform a visual inspection of the yellow test area.

Results.



- Normal Range = 71 – 109 mg/dL
- Critical Range = <40 and >400 mg/dL
- All critical results **MUST** be repeated by an RN immediately.
- All repeated and confirmed critical results **MUST** have the comment “MD Notified”
- Follow section protocol for critical glucose results.
- If value is <30 or >545 report as such. Do not report a value <30 or >545.
- If result is outside measuring range or value is not consistent with patient symptoms it should be verified with a blood draw for the lab.

To Review Results



- From main menu – select review result
- All results are displayed on screen – Patient & QC
- Select patient – to view patient results - scan ID
- Select QC – to view QC results.

Glucose Results 12:48pm

All -- 10/12/07

Time	Result	ID
12:15pm	8.5	123456789ABC
10:32am	6.7	543444789222
8:25am	11.0	QC L2
8:20am	4.5	QC L1
7:45am	8.0	Linearity L4

Patient QC ▲

◀ [Icon]

11/13/07 [Signal] [Battery]

Cleaning the Meter.

- It is a requirement that the meter be cleaned after each use.
- Use the germicidal wipes approved by the facility.
- Protect the strip port from moisture.



Meter Troubleshooting

[If your meter is frozen or acting finicky you can reset it.](#)

Resetting meter:

Remove from base. Hold power button for 20 seconds. Release power button. The meter should power on then off. Dock meter or continue with testing.

[If you notice the meter is not charging or there is a buzzing sound then the charging base needs some TLC.](#)

Ensure contacts on meter and base are clean. Sometimes the metal contacts on the base become recessed. You can take a pen tip and lightly pull the contacts out. In the event you still hear buzzing, try switching the meters on the charging stations.

Troubleshooting (cont.)



In the event that the meter will not cooperate, notify the ATC. If both meters are inoperable during evening, night, and weekend hours contact Roche Technical Support *1-800-440-3638*.

CONTACTS



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Roche Technical Support

1-800-440-3638

Mike Gavin, Laboratory Manager

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References



Roche Diagnostics. *Accu-Check Inform II Operator's Manual Version 4*. 02 2014.

VA SORCC Clinical Laboratory. "Accu-Check Inform II Procedure Manual." 07 2014.