Accu-Chek Inform II: Training Powerpoint

ACCU-CHEK Inform II
Operator Training

Provincial Health Services Authority
Accu-Chek Inform II
Preliminary Review for Hands On Training
Complete Quiz at the end of this session

1. AccuChek Inform II System Components
2. AccuChek Inform II Meter
3. AccuChek Inform II Test Strip & Quality Control Material
4. Key Points
5. Cleaning the meter
6. Operator ID & ongoing competency
7. Perform a quality control test (QC) – Hands On
8. Perform a patient test – Hands On
9. AccuChek Inform II Meter ranges
10. PHSA Normal/Critical ranges
11. View results
12. Quiz
Accu-Chek Inform II
System Components

Base Unit (BU)
• Automatic data transfer and battery charge.
• Connected to network & power outlet
• Blue light – indicates data transfer.
• Green light - charging and properly placed in BU
• Red light – BU is first plugged into power outlet with no meter seated.

Tote Box
Meter, strips, disinfectant swabs, Control 1 & 2, lancets, capillary pipettes.

Quick Reference Guide
**Accu-Chek Inform II**

**Meter Components – meter front view**

- **Test Strip Port**
- **Touchscreen** - Main menu with 3 options (finger touch only)
- **On/Off Button**
- **Barcode Scanner (Laser)**
  - Operator ID
  - Patient ID (in future)
  - Control Solution 1 & 2
  - Inform II test strips
Accu-Chek Inform II

Meter Components – meter back view

- Meter re-set button
  (for meter freeze situation, press gently with paper clip a few seconds to re-boot)

- Re-Chargeable Battery Pack

- Charging Contacts
  (To Base Unit)

- Infra-red contact to upload lot information
Accu-Chek Inform II - Quality Control (QC)

Accu-Chek Performa Controls Levels 1 & 2

• Provided by Point of Care Testing - LAB
• All Lot #’s validated by Point of Care Testing
• Control 1 and Control 2
• One Lot # per year
• Stored @ Room Temperature
• Expiry date on vial is for “closed” vial expiry
• Open vial Expiry is 3 months – Point of Care – Lab will date the vials with open date
• Shake vial well before each use. Replace cap immediately.
Caution: Blue dye- will stain clothing
AccuChek Inform II – Key Points

- Operator ID as per current practice. Barcode or Manual Entry.
- Test Strip is inserted into the meter BEFORE blood is applied.
- Sample Application: Apply to FRONT EDGE of test strip
- Sample size: 0.6 microliters
- Result time: 5 seconds
- Analytical Measuring Range: 0.6 mmol/L - 33.3 mmol/L
- Hematocrit Range: 10 – 65 %
- Clean meter after each patient use with CAVIWIPES.
- Dock meter in BU after each use – Data exchange & Maintain charge.
- Replace Meter Tote in appropriate storage area.
Ongoing Operator Competency

Consistent with Current Protocol:
✓ Maintain with the use of your unique Operator ID #
✓ Enter with Barcode Scan or Manual Entry
✓ Not shared with other staff

Minimum Requirements:
✓ 2 sets of Quality Control (Control 1 and Control 2) per year
✓ 2 Patient Tests per year
✓ Operator Lock out if requirements are not met within the year
Accu-Chek Inform II
Cleaning the Glucose Meter, Base Unit

Only use the Manufacturer approved Cleaning Wipe

✓ Caviwipes @ PHSA – pre-moistened cleaning wipe with Cavicide Surface Disinfectant/Decontaminant Cleaner

Glucose meters are cleaned & disinfected:
✓ After each patient use
✓ When visibly soiled

Base Unit & Supply totes are cleaned & disinfected:
✓ Weekly at a minimum
✓ When visibly soiled
Accu-Chek Inform II

Cleaning the Glucose Meter - contd.

✔ Do not allow pooling of the disinfectant solution from the towelette on the touch screen.

✔ Do not allow disinfectant solution to enter the test strip port on the meter.

✔ Do not allow electrical contact points on the Glucose Meter or Base Unit to become saturated with disinfectant solution. Dry contact points well.
**Accu-Chek Inform II**

**Cleaning the Glucose Meter - contd.**

To Clean Visible Soil:

- Wear gloves
- Use one Caviwipe towlette
- Completely clean the surface of all gross debris.
- Discard the towellite & remove gloves
- Follow by disinfecting the surface

To Disinfect / Decontaminate:

- Wear a second pair of gloves
- Obtain a second Caviwipe towlette
- Thoroughly wet the surface
- Allow the surface to remain wet for 3 minutes.
- Wipe Dry with soft cloth or tissue
Performing a Quality Control Test

Glucose Meters, Base Units & Supply Totes are labeled

Obtain corresponding Supply Tote

Remove meter from base unit.

1. Press and release the On/Off button
2. Meter performs a Self Check
3. ‘Power Up’ screen appears
4. Confirm date and time
5. View battery “life” symbol in bottom right corner
6. Proceed to the next screen
   • Manually - touch the arrow symbol
   • Automatically - after 5 seconds
Entering an Operator ID - *Manual Entry*

- Touch the symbol to backspace and delete a character entered incorrectly
- Touch symbol to confirm

*Once entry is complete, the main menu appears*
Entering an Operator ID –
Barcode Scanner

To SCAN the Operator ID using the barcode reader:

1. Touch and release the ‘Scan’ symbol in top right corner of screen (black background=scan mode)

2. Hold meter so window of scanner is 4-8 inches above barcode you wish to read.

Meter beeps once the barcode has been read successfully and info scanned appears on screen. Scanner turns off after 5 seconds.
Perform a Quality Control (QC)

1. Touch ‘Control Test’
2. Touch Level 1 (Lo) or Level 2 (Hi) to select the level for the test desired.

Note:

QC testing is required every 24 hours – both Level 1 and Level 2.

Glucose Meter will be locked out until QC testing is completed.

Screen will display the level of control required.
Accu-Chek Inform II
Perform a Quality Control (QC) contd.

Lot number entry – QC solution & Test Strip

3. Touch the barcode symbol at top right corner of screen to enter the lot number of the Quality Control Solution

Scan the lot number on the control solution vial - hold meter so scanner is 4-8 inches in front of vial barcode

Touch ✅ to confirm the scanned lot number.

Repeat procedure to scan the test strip vial.

4. Touch the barcode symbol at top right corner of screen to enter the lot number of the Test Strip Vial.

NOTE: Lot numbers cannot be manually entered
**Accu-Chek Inform II**

*Perform a Quality Control (QC) contd.*

5. **“Flashing Arrow” symbol appears.**
   Insert test strip into test strip port.
   Test Strip Port at the top of meter.

6. **“Flashing Drop” symbol appears.**
   Meter is ready for QC sample.
   Mix the control vial by gently inverting 5 times
   Remove cap and wipe vial with tissue
   Discard first drop and apply 2\textsuperscript{nd} drop to the FRONT EDGE of the test strip.

Note:
Test strip is ALWAYS inserted in the meter BEFORE application of QC solution.
Position the meter on a flat surface or downwards – DO NOT allow liquid in test strip port.
Perform a Quality Control (QC) contd.

Numeric QC Result will appear in 5 seconds

“RANGE” symbol will appear when QC value is within the QC range.
“Out of Range” symbol will flash when QC value is not within the QC range.

7. Touch “RANGE” or “Out of Range” symbol to view the QC range.
   Note: A comment is required if result is out of range or there is an error code.

   Touch ✓ to return if QC is in Range.

For “Out of Range” QC:
   Touch symbol in lower left corner of screen
   Pre-programmed comments will appear.
   Up to 3 comments can be selected.
   Touch ✓ in lower right to confirm selection.
   Then ✓ again to return.

Note: Comments cannot be edited once Control Result Screen is exited.
Accu-Chek Inform II
Perform a Patient Test

1. Touch ‘Patient Test’

2. Next Screen displayed will ask for Patient ID.
   Pass through this page.
   Note: Use of Patient ID is not activated @ PHSA

3. Confirm selection of Patient Test
   Touch ☑ in lower right corner of screen.
Accu-Chek Inform II
Perform a Patient Test contd.

To Enter the test strip lot:

4. Touch the barcode symbol at top right corner of screen to enter the lot number of the Test Strip Vial.

   Scan the lot number on the test strip vial – hold the meter so scanner is 4-8 inches in front of vial barcode

   Touch to confirm the scanned lot number.

5. “Flashing Arrow” symbol appears.
   Insert test strip into test strip port.
   Test Strip Port at the top of meter.

Note: Test strip is ALWAYS inserted into the meter BEFORE application of patient blood sample!!
Accu-Chek Inform II
Perform a Patient Test – contd.

6. “Flashing Drop” symbol appears.
   (up to 10 minutes to apply sample before meter times out)
   Can simulate with a Linearity sample during training.
   Meter is ready for Patient sample.
   Follow institutional guidelines for the capillary puncture.
   Select puncture site
   Choose appropriate capillary puncture device
   Puncture site is clean. If required, clean site with soap & water.
   Disinfect with 2% chlorhexidine in 70% isopropyl alcohol
   Perform skin puncture
   Allow puncture site to Air Dry.
   Remove first drop of blood. (removes contaminants/residual disinfectants & any possible dilution effect).
   Apply 2nd drop to the FRONT EDGE of the test strip.

Note: Arterial or line samples may be used.

Touch the first drop to a gauze/tissue before application to the front edge of the test strip.

Result appears after 5 seconds
Perform a Patient Test – contd.
Neonate Collections – Incubators & Cribside

Neonate Samples may be collected in micro tubes prior to test strip application-see educator. Touch the first drop to a gauze/tissue before application to the front edge of the test strip.

Application with micro-collection rod

Application with micro-collection pipette

Application directly from neonate heel
Accu-Chek Inform II – Patient Testing contd.

Common Screen Shots Seen after Patient Testing

Numerical Glucose value will display @ PHSA if within 0.6-33.3 mmol/L

Touch “Range” Field to view the Normal, Out of Normal, or Critical Ranges

Normal Range
Neonates: 2.6 – 5.5 mmol/L
Pediatrics & Adults: 4.0 – 11.0 mmol/L

Action Ranges
Neonates: 2.0 - 2.5 & 5.6 – 10.0 mmol/L
Pediatrics & Adults: 2.0 – 3.9 & 11.1-30.0 mmol/L

Critical Results
Neonates: < 2.0 & > 10.0 mmol/L
Pediatrics & Adults: < 2.0 & > 30.0 mmol/L

Reportable Range:
0.6 - 33.3 mmol/L
Out of Range Low:
< 0.6 mmol/L
Out of Range High:
> 33.3 mmol/L
Perform a Patient Test contd.

7. Touch “Range” Field to view the Reference, Action, or Critical Results Ranges.

Note: A comment is required if result is out of range or there is an error code.

Touch ✔ to return to the Main Menu and accept the patient test result.

OR Touch symbol in lower left corner of screen if Comment required.

Pre-programmed comments will appear.
Up to 3 comments can be selected.
Touch ✔ in lower right to confirm selection. The ✔ again to return.

Note: Comments cannot be edited once Control Result Screen is exited.
Accu-Chek Inform II Results Review
Patient or Quality Control

From main menu screen touch ‘Review Results’.

Stored test results are displayed in a sequential list.

Touch [↑] or [↓] to scroll up or down in the list. Results are grouped by date.
Accu-Chek Inform II Results Review

Patient or Quality Control contd.

- Touch an entry in list to display related details.
- Touch ‘Patient’ symbol to display results for a specific patient only.
Accu-Chek Inform II
Test Strip Limitations

• *Galactose*
  Elevated Galactose can occur in neonates with inherited galactosemia (1 per 40,000 in BC).
  The first glucose value for neonates > 5.5 mmol/L is checked simultaneously with a lab glucose during the first 5 days of life. Collect a lab draw prior to next scheduled feed.

• *Triglycerides* – Interference of meter is > 20 mmol/L far beyond average values.

• *Ascorbic Acid* – Interference of meter is > 0.17 mmol/L ICU patients receiving high dose IV ascorbic acid as support.
Accu-Chek Inform II –

On line educational material review, quiz, hands on training with a competency checklist will complete training requirements.

Once the requirements are met your Operator ID’s are validated

Hands on Training – Nursing Educators or Leaders will provide a schedule of classes or roaming edu-quick times.

- Print name and ward on Sign in sheet.
- Complete and sign the Competency Check List
- Include Operator ID
- Include PHSA location – ward or clinic area.
- Include work email

Return Check List to Trainer for POCT records 😊