

BM Meters – Cascade Trainer Guide

1 SAFETY KNOWLEDGE

CONTRA-INDICATIONS/INTERFERENCES – SITUATIONS WHERE ROCHE INFORM TEST NOT MOST APPROPRIATE TEST - BLOOD SAMPLE SHOULD BE SENT TO LABORATORY INSTEAD

- **Galactosaemia** – Galactose >0.83 mmol/L
- **Lipaemic samples** – Triglycerides >20.3 mmol/L
- **IV ascorbic acid** – Ascorbic acid >0.17 mmol/L
- **Haematocrit** <10% or > 65%
- **IV N-Acetylcysteine**

Impaired Peripheral Circulation – severe dehydration due to

- DKA – Diabetic Ketoacidosis
- HHS – Hyperglycaemic Hyperosmolar Non-Ketotic Syndrome
- Hypotension
- Shock
- Decompensated heart failure NYHA Class IV
- Peripheral arterial occlusive disease

Unwashed hands – unwashed hands, food residue, hand creams etc can interfere

2 METER KNOWLEDGE

Touch screen – Use finger only

Scanner window – Hold meter 10-15 cm away from barcode

Strip Port – only approved test strips to be inserted, make sure no fluid enters device directly.

Reading range

- Measurement range – 0.6 - 33.3 mmol/L
- Critical range – Low - 3.9 mmol/L High - 15.0 mmol/L
- Normal range – Low - 4.0 mmol/L High - 10.1 mmol/L

Operator ID – DO NOT SHARE BARCODES

Patient ID – MUST enter correct patient CHI Number

Access of stored data – Review Results option, can filter by date performed or CHI number

BM Meters – Cascade Trainer Guide

3 TEST STRIPS

Code chip – performed by Point of Care Testing Team to add new strip lot data to all devices

Calibration – calibration information downloaded from code chip

Expiry Date

- Do not use past expiry date
- Can be used up to expiry date if stored correctly

Storage

- 2-30°C
- 10-90% humidity
- Keep test strip container lid tightly closed
- Close test strip container lid immediately after removal of test strip
- Use test strip immediately

Handling and insertion of test strip

- Wash and dry hands
- Wear gloves
- Do not touch either end of test strip
- Insert into test strip port with lettering facing upward

Sample application – apply to front edge of yellow window of test strip keeping meter level

4 INTERNAL/EXTERNAL QC

Must QC every 24 hours – QC lockout if not done, will not be able to perform patient testing.

Other times to QC

- Start of new test strip container
- Start of a new lot of test strips
- If questionable results are repeatedly displayed
- To check performance of the meter

If QC fails

- repeat QC ensuring correct level of QC used
- repeated failures contact Point of Care Testing Team

QC Expiry

- Unopened bottles stored at 2-32°C until expiry date
- Opened bottles – 3 month expiry from date opened (write date on bottles)

EQA

- Pink solutions sent monthly, to be performed as Patient Test
- Scan barcode provided as patient ID and return results to POCT Team by date stated

5 PATIENT PREPARATION

BM Meters – Cascade Trainer Guide

Informed Consent

Hand washing

- Wash and dry operator hands before wearing gloves
- Wash and dry patient hands

Sites, Method, Sample

- Single use lancing device
- Side of finger – not forefinger or thumb
- Touch front edge of test strip to blood drop
- Insufficient sample application will lead to erroneous results
- Can enter up to 3 comments – only one custom
- Dispose of consumables in sharps bin and clinical waste as appropriate
- Dock meter on base unit to transmit results to SCI-DB

6 CLEANING AND STORAGE OF METER

Cleaning of meter

- Switch off meter
- Clean after each use using Clinitex wipes ensuring no liquid enters test strip port

Decontamination - Decontaminate using <1% hypochlorite solution

Meter Storage

- Store on base unit
- Purple box – if stored in purple box ensure meter docked after patient testing and at least once every 24 hours to transmit results and download updates.
- Do not drop
- Do not immerse in liquid
- Do not expose to excessive heat eg phototherapy light, bed warmer, direct sunlight

7 SUPPLIES

Test strips - ordered from Stores

QC - distributed by Point of Care Testing Team every 3 months

8 TROUBLESHOOTING

Contact Point of Care Testing Team – contact details in purple box