

Statstrip Glucose/Ketone Overview

Overview

The Statstrip Glucose/Ketone meter is a Point of Care meter for the in vitro, quantitative determination of glucose or ketones in capillary finger prick or neonatal heel prick specimens. It is not intended for use with neonatal cord blood specimens.

The meters are kept on their docking station when not in use to ensure the battery remains charged and so that results transfer can occur directly into the patient electronic medical records.

Health & Safety

Operators must be aware that there is a potential risk of infection when coming into contact with human blood.

- Follow local Health and Safety policy and blood borne virus protection protocols.
- Sharps need to be disposed of into a yellow sharps bin.
- Analyser consumables need to be disposed of into a yellow biohazard bin.

Analysers must undergo routine maintenance and docking stations must undergo electrical safety testing to reduce risk of fire, electric shock or injury.



Materials

Glucose/Ketone Test Strips

- Store strips between 1-30°C
- Glucose strips have an open vial stability of 6 months. Record the date on the pottle
- Ketone strips have an open vial stability of 3 months. Record date on the pottle
- Ensure pottle lid is securely shut after opening
- Do not return unused strips to the pottle
- Do not use strips past their open vial stability



Specimen collection

The preferred sample type is capillary finger prick or heel prick (neonates). The first drop of blood must be wiped away and the second drop of blood used for testing. Samples must be tested immediately.

Patient Testing

Refer to 'Statstrip Glucose/Ketone Patient Testing' method for detailed instructions

Recalling Patient Results

1. Login to the meter using your unique operator ID
2. Select 'Review' from the main screen
3. Select the appropriate patient or QC test result you need to review and press 'View'

4. The result will be displayed on the screen

Operator Training

Every operator must be trained and prove competent in pre/post analytics and patient testing prior to receiving access to the analyser.

Initial training consists of:

- Successful completion of the online education module
- In person training and sign-off by a designated Ward Champion/Trainer

Annual recertification consists of:

- Successful completion of the online recertification module and/or in-person education where needed.

OR

- Successful completion of full QC testing on any meter

Any operator that fails to comply with the above training requirements will be 'locked-out' of the analyser.

Limitations

- Any unexpected patient results should be repeated in the first instance and then confirmed with a sample sent to the laboratory for testing, where possible.
- For diagnostic purposes, results should always be assessed in conjunction with the patient's medical history, clinical examination and other findings.
- Finger-prick point of care testing must not be used when peripheral circulation is poor.
- Results may be falsely low if patients are severely dehydrated or hypotensive, in shock, or in a hyperglycaemic-hyperosmolar state

Outage Procedures

- Power outage
 - If the meter is connected to an emergency power supply, continue processing samples as per normal processes
 - If the meter is not connected to an emergency power supply, the battery life is approximately 4 hours. Results will need to be manually transcribed into the patient's notes. Ensure results are recorded with the date, time and signature of the operator.
- IT Outage
 - Notify your local POCT team that results are not transmitting.
 - Results will not transmit into the patient's electronic medical records. Transcribe results into the patient's notes. Ensure results are recorded with the date, time and signature of the operator.
 - Once IT outage is resolved, results should begin to transfer into the patient's electronic medical records – this will be managed by your local POCT team.
- Meter Failure
 - Notify your local POCT team
 - If more than one meter available, utilise the functional meter until the fault is resolved.
 - The POCT team may have a loan meter available for use
 - If no additional meter available, send samples to the laboratory for testing until the fault is resolved