![StatStrip Glucose Monitoring System logo and two Xpress glucose meters displaying 102 mg/dL and 5.6 mmol/L; Nova biomedical logo]

Welcome to the Nova Biomedical° StatStrip° Xpress Operator Training!

This will provide a comprehensive overview of the Stat Strip meter features and operating procedures including:

- System Overview
- Quality Control
- Patient Testing
- Additional procedures

Review questions will evaluate your comprehension and competency.

Training is typically completed in less than 30 minutes.

Let's Get Started!

Introduction

- Stat Strip Xpress is a portable handheld analyzer for whole blood glucose monitoring.

- Incorporates patented Multi-Well® system that corrects for hematocrit.

- Eliminates interferences from acetaminophen, ascorbic acid, maltose, galactose, xylose, and lactose.

- Provides accurate results regardless of sample's oxygen status.

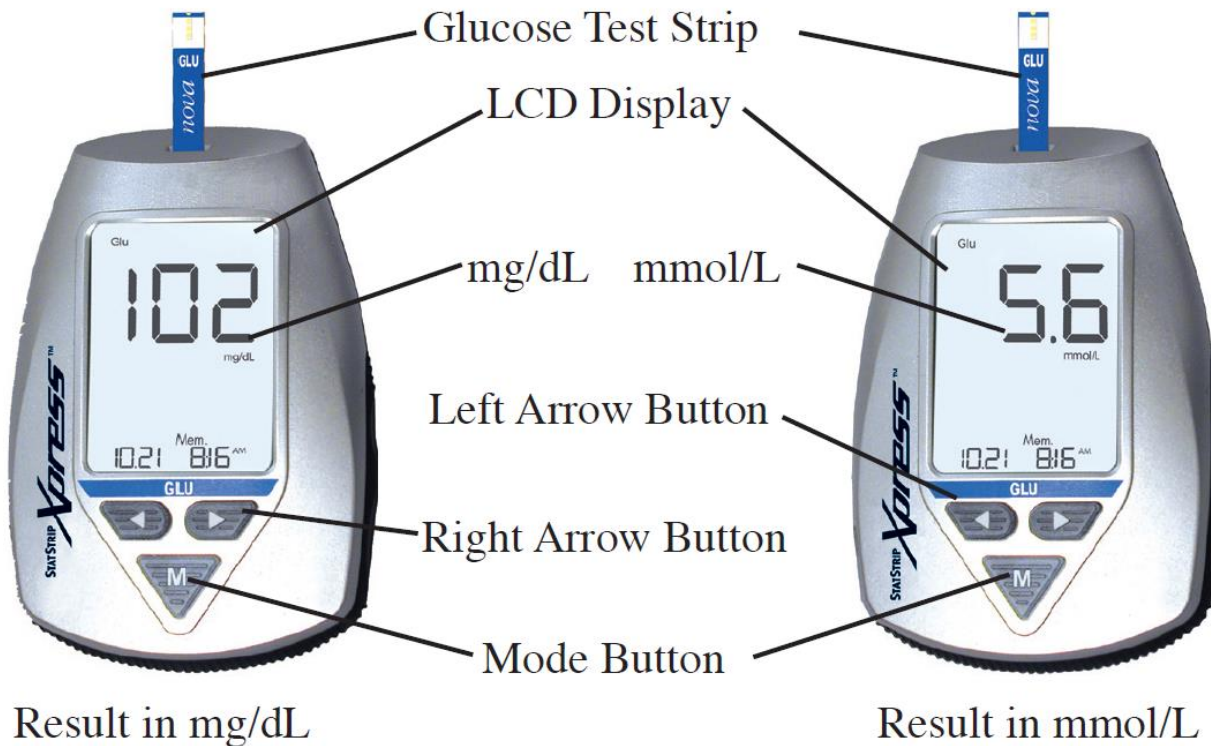- No calibration codes required.

Introduction

Product Features

- Results reported in 6 seconds

- Uses only 1.2 uL of sample

- END fill test strip

- Reportable range 10 – 600 mg/dL (0.6 - 33.3 mmol/L)

- On-Board Results Data Storage

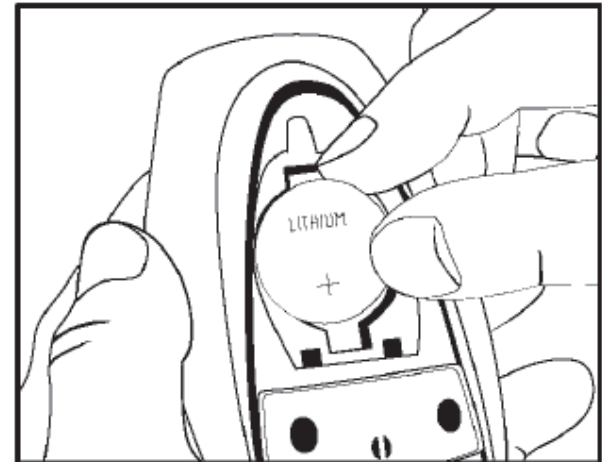- Large-font result display for easy viewing

- Long-life coin-cell battery

The StatStrip Xpress Meter

Glucose Test Strip

LCD Display

mg/dL   mmol/L

Left Arrow Button

Right Arrow Button

Mode Button

Result in mg/dL

Result in mmol/L

Introduction

Battery

- Meter is powered by a single 3V coin-cell battery, 2450. The battery is housed at the rear of the meter behind the battery cover.

- Typical life of a new 3 V battery is about 600 patient &/or QC tests.

- Replace battery when indicated.

Glucose Test Strips

Always Date Vials When Opened

- 2 vials per box, 50 strips per vial.

- Keep vial tightly closed when not in use.

- Store strips in their original vial at room temperature.

- Expiration date is printed on the vial of test strips.

- Once opened the test strips are stable at room temperature for up to **180 days** or until the expiration date, whichever is first.

- Write the Date Opened and Discard Date on the vial.

Quality Control Solutions

Always Date Vials When Opened
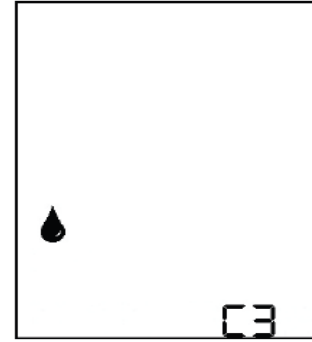
- Three levels of Quality Control are available.

- Store controls at room temperature.

- Keep the vials tightly closed when not in use.

- Expiration date is printed on the control vials.

- Once opened, Quality Control is stable for up to **90 days** or until the expiration date, whichever is first.

- Write the Date Opened and Discard Date on the vial.

Using The StatStrip Meter
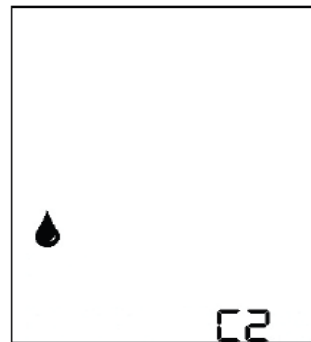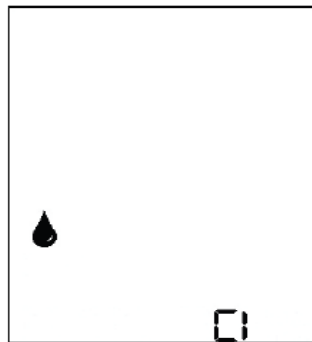
Quality Control Analysis

- To begin QC Analysis and to turn the meter ON, insert a Glucose Test Strip into the meter.

- Once Strip is inserted, the meter will show a Flashing Blood Droplet indicating it has turned on and ready for analysis.

Quality Control Analysis

- Press the Right or Left Arrow Buttons to scroll to the QC levels.

- Scroll to the correct QC level (number) as shown at bottom right of the screen.

C1

C2

C3

Using The StatStrip® Meter

Quality Control Analysis

- Gently mix the control vial before each use and discard the first drop before sampling.

- Touch the end of the test strip to a drop of control solution until the test strip fills and the analysis countdown begins. An audible tone may be heard also.

- When applying Quality Control to the test strip, always make sure you hold the meter level or pointed slightly downward.

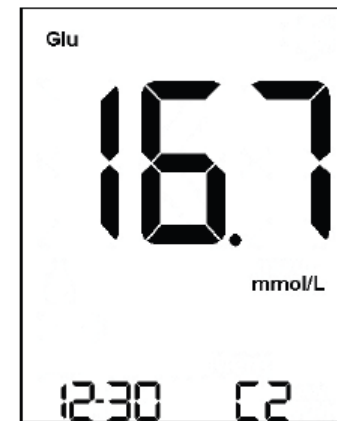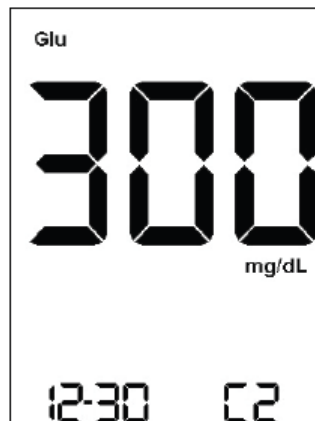- Never stand the meter straight up when applying Quality Control material to the test strip.

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Using The StatStrip Meter

Quality Control Analysis- Result

- The QC Result screen will display when analysis is complete (after 6 seconds).

- The result will automatically be stored in meter memory with a date/time identifier. Record result and verify it is within acceptable limits.

- Remove the test strip to turn the meter off.

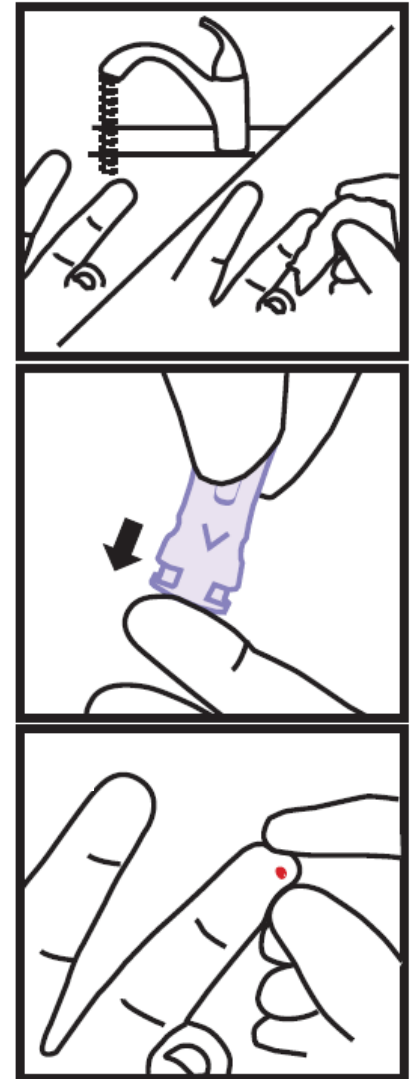# *Using The StatStrip Meter*

Patient Analysis

- To begin Patient Analysis and to turn the meter ON, insert a Glucose Test Strip into the meter.

- Once Strip is inserted, the meter will show a Flashing Blood Droplet indicating it has turned on and ready for analysis.

Using The StatStrip Meter
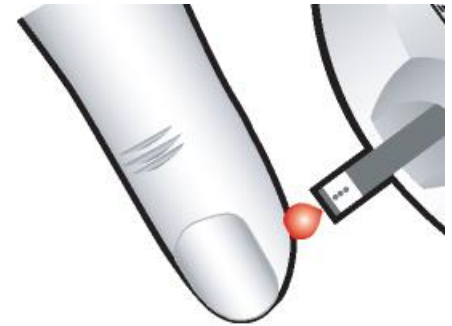
Patient Analysis

- Clean the patient's finger according to hospital protocol.

- Dry thoroughly.

- Perform a finger stick according
to hospital protocol.

Using The StatStrip Meter

Patient Analysis

- When the blood drop appears, touch the end of the test strip to the blood drop.

- The test strip is full when the countdown begins.

- When applying blood to the test strip, always make sure the test strip fills completely. Blood fills the strip from the end by capillary action.

- Make sure that you hold the meter level or pointed slightly downward. Never stand the meter straight up when applying blood to the test strip.

- Do not touch the strip to the blood drop a second time.
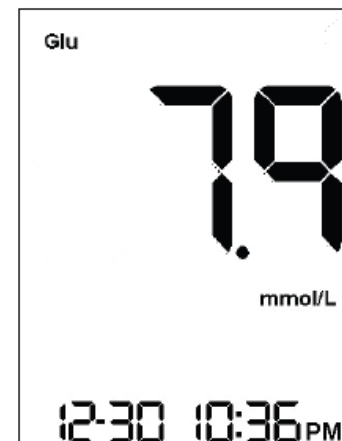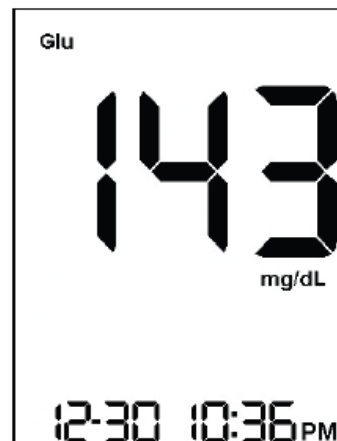
- Results appear in 6 seconds.

Using The StatStrip ® Meter
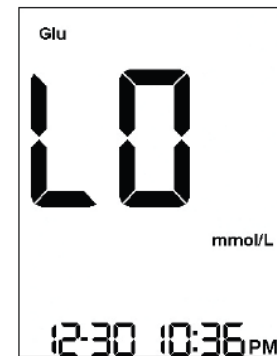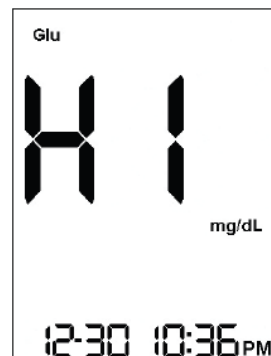
Patient Analysis- Result

- The Patient Result screen will display when analysis is complete (after 6 seconds).

- The result will automatically be stored in meter memory with a date/time identifier. Record result manually.

- Remove the test strip to turn the meter off.

Using The StatStrip® Meter
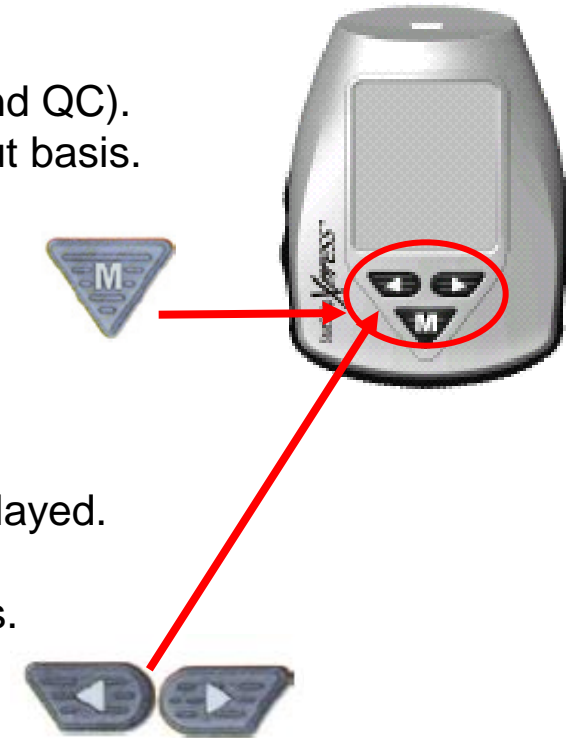
Result- Above/Below Linear Range

- If result is low (LO- less than measurement range) or high (HI- greater than measurement range) the following message screens will appear.

Using The StatStrip Meter

Review Results

- The meter is capable of storing up to 400 total results (patient and QC). Results are stored and automatically deleted on a first-in, first-out basis.

- To view previously stored results and turn the meter on, press the MODE button once for less then 3 seconds.

- If there are no results in memory, the meter will display "- - -".

- If there are results in memory, the most recent result will be displayed.

- Press the RIGHT or LEFT Arrow Buttons to scroll through results.

- The meter will display "END" upon reaching last stored result.

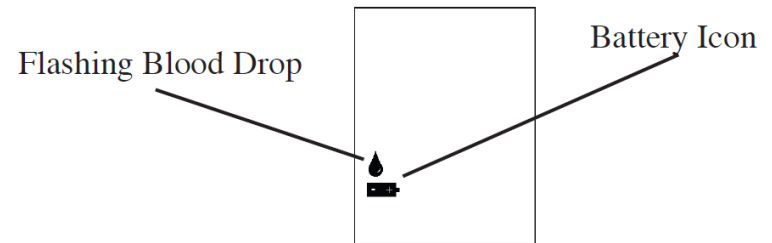- Results are stored by date/time identifier.
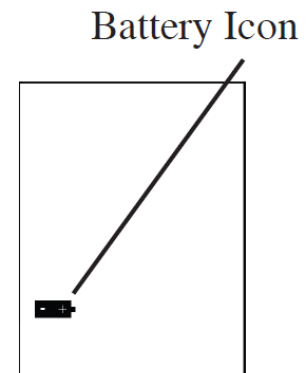
Battery

Battery Indicator

Battery is Low:

- Flashing blood drop & battery icon shown when running samples.
- Battery charge sufficient for up to 10 tests. Change battery soon.
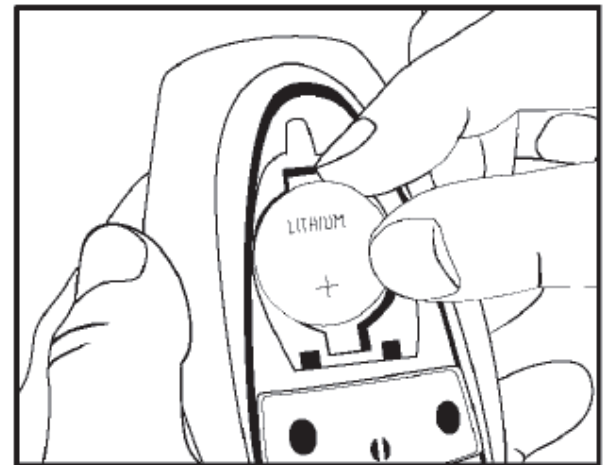

Battery is Very Low:

- Battery icon only shown at lower left of display when attempting to use meter.
- Meter will not operate properly and should not be used until batter is replaced.

Battery

Battery Replacement

- Turn the meter over.

- Remove the battery cover by lifting on the tab.

- Pull out the plastic tab below the battery cover which will also pull the battery out. Remove the battery.

- Replace with a new battery.

- NOTE: Be sure to place battery over the bottom section of the plastic tab/sleeve to assure easy removal the next time. Do place battery over top of plastic tab.

- Replace the battery cover. Meter software version will be display for 3 seconds after battery replacement.

Maintenance

Cleaning The Meter

- Clean the meter according to hospital protocol.

- Immediately follow with a water dampened cloth to remove all cleaning residue.

- Dry thoroughly with a soft cloth or lint-free tissue.

- Caution: Do NOT immerse the meter or hold the meter under running water.

- Caution: Do NOT spray the meter with a disinfectant solution.

Help Aids

Analysis Related Error Codes (displayed on meter):

- *E3- Used Strip Error*
    - The test strip was used previously or is defective. Repeat test with new test strip.

- *E4- Short Sampler Error*
    - Insufficient sample (control or blood) aspirated onto strip. Repeat test with new strip.

- *E8- Bad Strip Error*
    - The test strip is defective or bad. Repeat test with new test strip.

- *E9- Bad Sample Error*
    - Problem detected with sample. Repeat test with new test strip.

This concludes the

StatStrip

Operator Training Program