

# FreeStyle

## Precision Pro



North Florida South  
Georgia  
Veterans Health System

Point-of-Care Testing  
(POCT)

# Glucometer Initial Training

Ancillary  
Testing  
Coordinators  
North Florida  
South  
Georgia  
Veterans  
Health  
System

- Sandra Pascual
- Dolly A. Gonzalez
- Jo Lynn Evans

**Contact information located in the glucometer box**

# Limitations of the glucometer

The system is not to be used for the diagnosis or screening of diabetes mellitus

Only for the monitoring of the treatment of diabetes mellitus

**\*\*\*Very Important\*\*\***

**This meter is not FDA  
approved to**

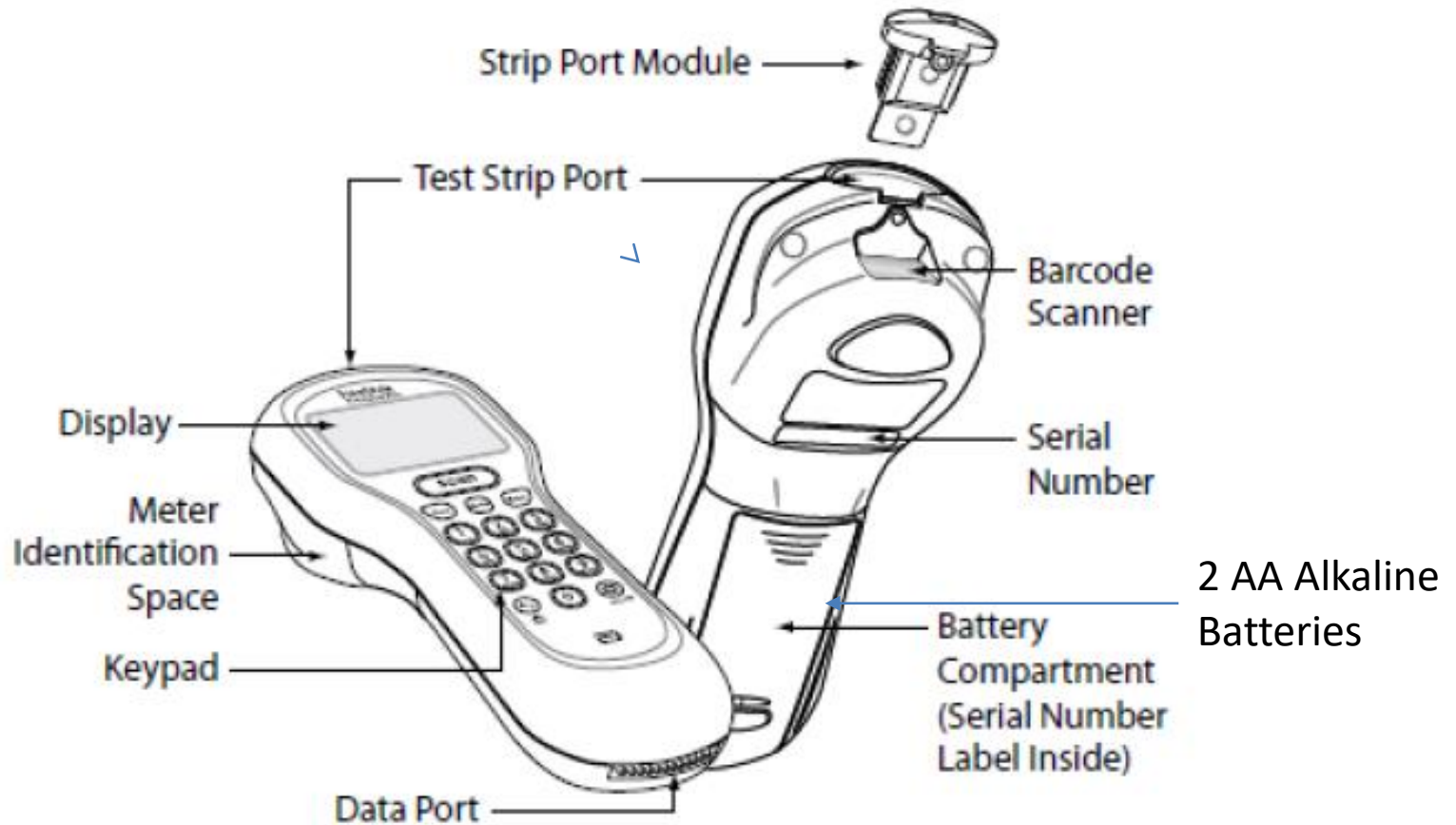
**be used on**

**Critically Ill patients.**

# Critically ill Patients

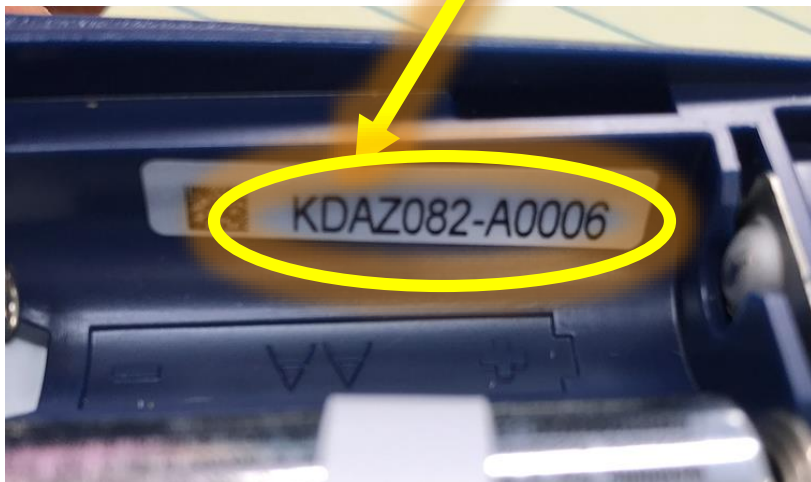
- Patient on mechanical ventilation and requiring an FiO<sub>2</sub> of >60% or CPAP of >8
- Hypotension requiring vasopressor support to maintain mean arterial pressure (MAP) >60 mmHg
- Hematocrit <15% or >65%.
- Requiring intravenous insulin infusion to maintain glucose control
- A diagnosis of any of the following: Shock, severe Hypotension, decompensated heart failure, diabetic ketoacidosis, metabolic acidosis with pH<7.2 and or lactic acidosis
- Status epilepticus
- Patient on a balloon pump or other circulatory assist device
- Patients receiving massive transfusion protocol post cardiac arrest

# Freestyle Precision Pro Glucometer Abbott



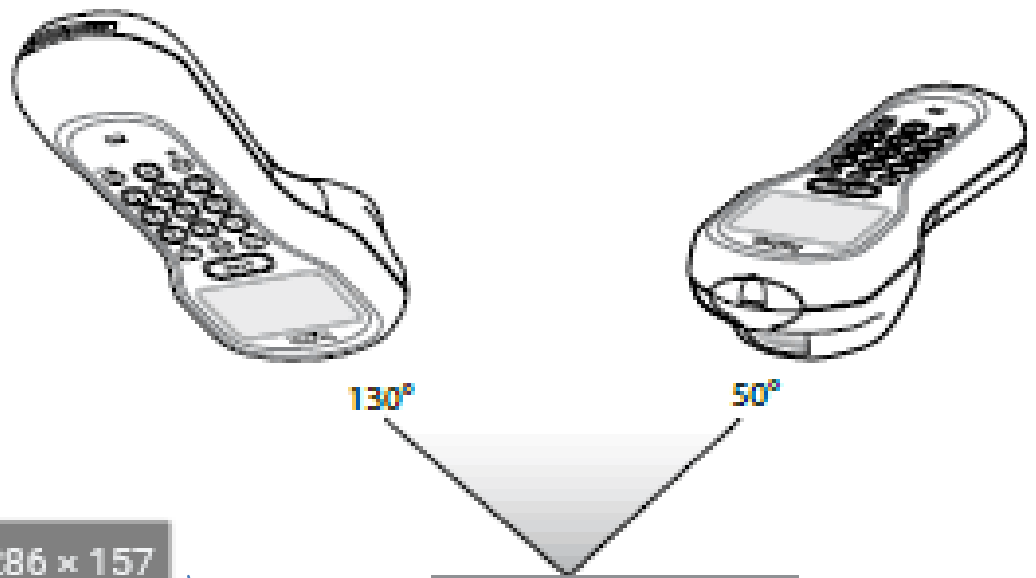
# Freestyle Precision Pro Glucometer Serial Number

Serial Number





286 x 157



# Scanning Freestyle Precision Pro Glucometer Abbott

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**Scanning  
Freestyle Precision Pro Glucometer Abbott**

# Supplies

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Testing strips, control vials,  
and AA batteries are  
supplied by

**Supply Chain  
Management.**

These items are usually stock  
right next to the lancets in the  
supply room

# Operator ID?

Operator IDs are used to access the glucometer to perform glucose testing.



This Operator ID or DUZ number is unique to each individual.

**NEVER SHARE**  
**OPERATOR NUMBER**  
**WITH ANYONE**

## Operator ID?

After initial training the employee will be evaluated at:

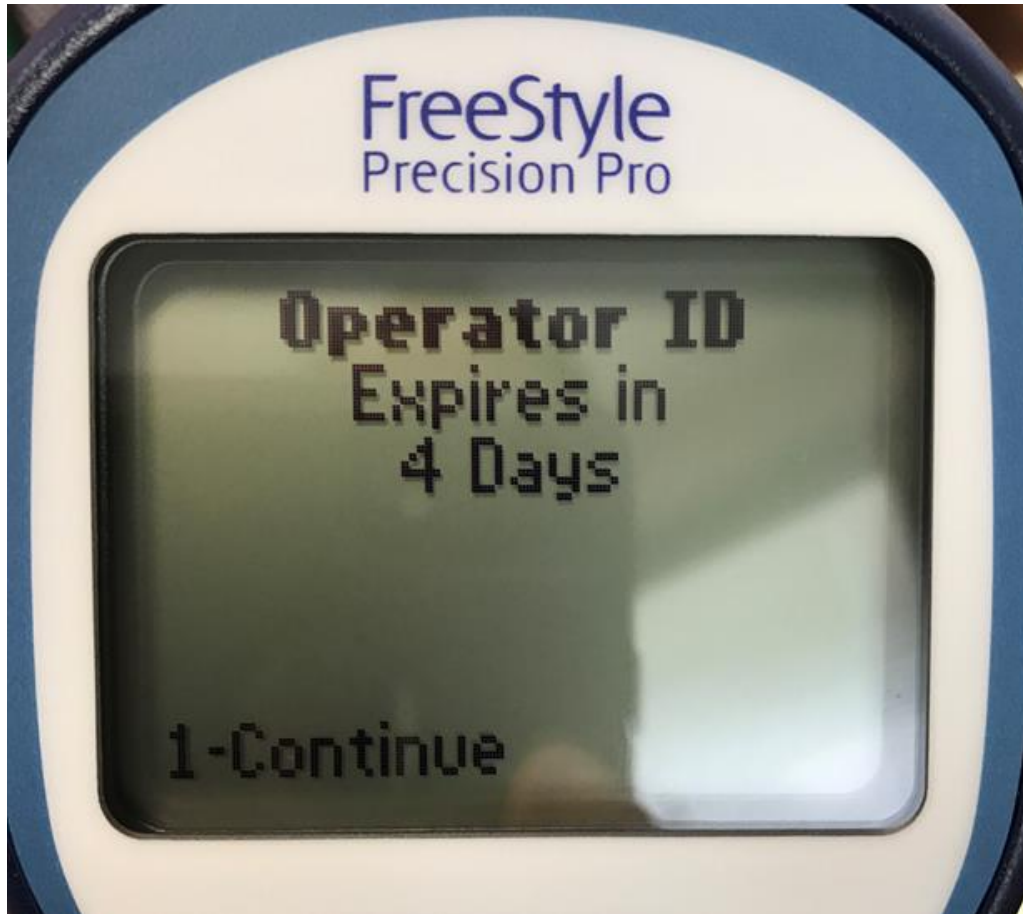
- 6 months
- annually

Annual competency is required once a year to maintain an active certification.

If competency is not performed, your account will automatically be lock out.



# Operator ID Expiration message



Contact your nurse manager or nurse educator to schedule training

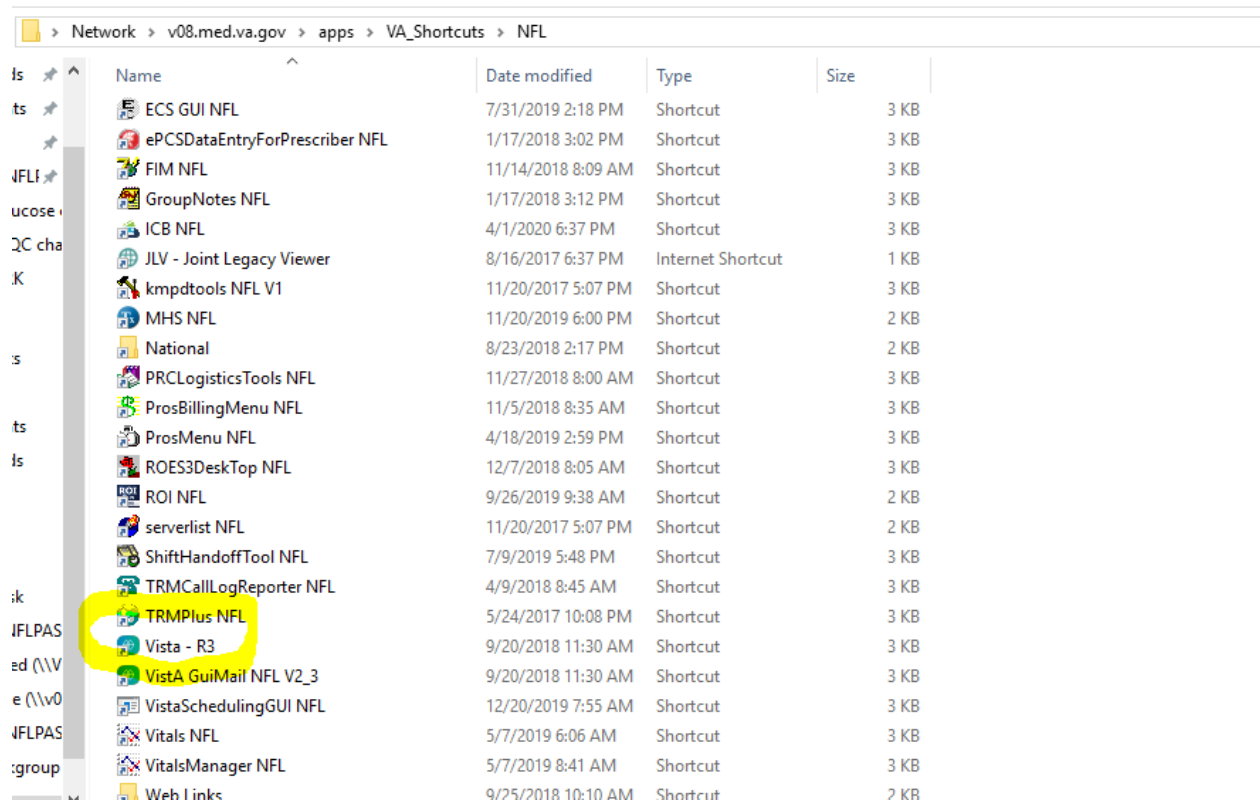
We are also here to assist you

How to find your  
own operator  
code?

**VISTA**

# How to find your own operator code?

## Vista




The screenshot shows a Windows Explorer window with the address bar set to "Network > v08.med.va.gov > apps > VA\_Shortcuts > NFL". The main pane displays a list of files with columns for Name, Date modified, Type, and Size. The file "Vista - R3" is highlighted with a yellow circle.

Name	Date modified	Type	Size
ECS GUI NFL	7/31/2019 2:18 PM	Shortcut	3 KB
ePCSDataEntryForPrescriber NFL	1/17/2018 3:02 PM	Shortcut	3 KB
FIM NFL	11/14/2018 8:09 AM	Shortcut	3 KB
GroupNotes NFL	1/17/2018 3:12 PM	Shortcut	3 KB
ICB NFL	4/1/2020 6:37 PM	Shortcut	3 KB
JLV - Joint Legacy Viewer	8/16/2017 6:37 PM	Internet Shortcut	1 KB
kmpdtools NFL V1	11/20/2017 5:07 PM	Shortcut	3 KB
MHS NFL	11/20/2019 6:00 PM	Shortcut	2 KB
National	8/23/2018 2:17 PM	Shortcut	2 KB
PRCLogisticsTools NFL	11/27/2018 8:00 AM	Shortcut	3 KB
ProsBillingMenu NFL	11/5/2018 8:35 AM	Shortcut	3 KB
ProsMenu NFL	4/18/2019 2:59 PM	Shortcut	3 KB
ROES3DeskTop NFL	12/7/2018 8:05 AM	Shortcut	3 KB
ROI NFL	9/26/2019 9:38 AM	Shortcut	2 KB
serverlist NFL	11/20/2017 5:07 PM	Shortcut	2 KB
ShiftHandoffTool NFL	7/9/2019 5:48 PM	Shortcut	3 KB
TRMCallLogReporter NFL	4/9/2018 8:45 AM	Shortcut	3 KB
<b>Vista - R3</b>	9/20/2018 11:30 AM	Shortcut	3 KB
Vista GuiMail NFL V2_3	9/20/2018 11:30 AM	Shortcut	3 KB
VistaSchedulingGUI NFL	12/20/2019 7:55 AM	Shortcut	3 KB
Vitals NFL	5/7/2019 6:06 AM	Shortcut	3 KB
VitalsManager NFL	5/7/2019 8:41 AM	Shortcut	3 KB
Web Links	9/25/2018 10:10 AM	Shortcut	2 KB

# How to find your own operator code?

Vista

 TRMPlus NFL

 Vista - R3



# How to find your own operator code?

Vista

**^Display user characteristics**

# How to find your own operator code?

## Vista

Type '^' to stop, or choose a number from 1 to 19 :^ ??

- 1 Phlebotomy menu ...
- 2 Accessioning menu ...
- 3 Process data in lab menu ...
- 4 Quality control menu ...
- 5 Results menu ...
- 6 Information-help menu ...
- 7 Ward lab menu ...
- 10 Microbiology menu ...
- 11 Supervisor menu ...
- LSM Lab Shipping Menu ...

You have PENDING ALERTS

Enter "VA to jump to VIEW ALERTS option

Select Laboratory DHCP Menu Option: ^display user Characteristics

# How to find your own operator code?

## Vista

Select Laboratory DHCP Menu Option: ^display user Characteristics

Employee Name

(DUZ#)

DEVICE: LINUX SSH (\$I: /dev/pts/87)JOB:

### ENVIRONMENT

### ATTRIBUTES

Site ..... GAINESVILLE VAMC,FL  
UCI .....  
Signed on ...  
Terminal type C-VT100

Type-ahead .....  
Time-out .....  
Fileman code(s) ..

Person Class:

KEYS HELD

**Operator Code becomes inactive if you don't sign in into VISTA or CPRS within 90 days**

- If you barely use CPRS or VISTA... sign-in once a month to keep it active.**



North Florida/South Georgia Veterans Health System Home

NORTH FLORIDA/SOUTH GEORGIA VETERANS HEALTH SYSTEM HOME

Administrative

Clinical

DataMart

Education

Employees

Facilities

News

Policies

Reference

Services

SharePoint

Site Search



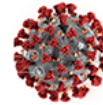
Search | Site Map | Links | **SharePoint**

Quick Links

- [Access Management](#)
- [Call Schedules](#)
- [Compliance](#)
- [Contingency](#)
- [Incident Reporting \(NF/SG\)](#)
- [Information Security](#)
- [Insurances Captured \\$](#)
- [MyHealtheVet](#)
- [Patient Safety](#)
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- [Performance](#)
- [Privacy](#)
- [Returning Service Members](#)
- [Safety Data Sheets \(SDS\)](#)
- [Service Request Center](#)
- [SharePoint Calendars](#)
- [Systems Redesign](#)
- [TMS \(Talent Mgmt. System\)](#)
- [Terminal Servers \(TS Web\)](#)
- [Web, SharePoint & OIT Support](#)

COVID-19/Novel Coronavirus

For preparedness information, helpful links, and other resources, visit our local [COVID-19](#) page (available from the top of the [Emergency Preparedness SharePoint](#) site or from the [Clinical](#) page in the Infection Control box).



Donate Life Month

The need is real. Every ten minutes, someone is added to the organ donor waiting list. Learn the facts about [Organ and Tissue Donation](#).



System Policies: National Mandate & Local Rescissions Tracker

To comply with national mandates, several System-level policies have been rescinded and now rely on the national policy. To learn more about the [nationally mandated policy changes](#) and view a listing of [rescinded local policies \(including how to find the replacement version\)](#), visit the [System Policies SharePoint](#) site.



Journey to High Reliability at NF/SGVHS

April's theme is: Commitment to Resilience. For more information, visit the [National HRO website](#) and view the [HRO newsletter](#), available from



Public Site Links

- [NF/SGVHS Internet](#)
- [VISN 8 Internet](#)
- [VA Internet](#)
- [VHA Internet](#)
- [VA Public Directory](#)



# Pathology and Lab. Medicine Service

## Path & Lab Home

Contingency

Admins

Path & Lab Documents

Site Contents

[Contingency](#) | [Priority Page 2](#)

## Announcements

[+ new announcement](#) or [edit](#) this list

✓ Title

There are no items to show in this view of the "Announcements" list.

## Path & Lab Documents

[+ New](#) [↑ Upload](#) [↻ Sync](#) [🔗 Share](#) [More](#) ▼

✓  Name Modified Modified By Category

### 4 Category : Ancillary Testing (10)

	Ancillary Tests Currently Approved	...	December 13, 2017	Wilson, Courtney B.	Ancillary Testing
	Finding DUZ numbers and printing barcodes March 2019	...	April 3, 2019	Jones-Lawson, Arlette	Ancillary Testing
	POC-PRO-003 Activated Clotting Time-Kaolin-ACT i-STAT Analyzer__controlled_copy_ID_233940	...	March 17	Jones-Lawson, Arlette	Ancillary Testing
	POC-PRO-006 Alere hCG Combo Cassette UPT procedure April 2017__controlled_copy_ID_233953	...	March 17	Jones-Lawson, Arlette	Ancillary Testing
	POC-PRO-007 KOH with DMSO procedure__controlled_copy_ID_233942	...	March 17	Jones-Lawson, Arlette	Ancillary Testing



## Site Owner/Coordinator(s)

[Allan, Robert W.](#)

[Jones-Lawson, Arlette](#)

## Links

▫ [Call Schedules](#)

▫ [Pathology and Laboratory Medicine Service National Web Site](#)

▫ [Help Desk Assistance \(x106093\)](#)

▫ [Policies for Pathology & Laboratory Medicine \(113\)](#)





















▫ [Entrance Survey](#)

▫ [Exit Survey](#)

▫ [Needle Stick Protocol](#)

▫ [Service Request Center](#)

Category : Ancillary Testing (10)

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 Finding_DUZ numbers and printing barcodes March 2019	...	April 3, 2019	 Jones-Lawson, Arlette	Ancillary Testing
 POC-PRO-003 Activated Clotting Time-Kaolin-ACT i-STAT Analyzer__controlled_copy_ID_233940	...	March 17	 Jones-Lawson, Arlette	Ancillary Testing
 POC-PRO-006 Alere hCG Combo Cassette UPT procedure April 2017__controlled_copy_ID_233953	...	March 17	 Jones-Lawson, Arlette	Ancillary Testing
 POC-PRO-007 KOH with DMSO procedure__controlled_copy_ID_233942	...	March 17	 Jones-Lawson, Arlette	Ancillary Testing
 POC-PRO-010 Provider-Performed Testing (PPT) Policy__controlled_copy_ID_233961	...	March 17	 Jones-Lawson, Arlette	Ancillary Testing
 POC-PRO-012 Whole Blood Glucose Testing using Abbott Freestyle Precision Pro Point of Care System-New 2020__controlled_copy_ID_233937	...	March 17	 Jones-Lawson, Arlette	Ancillary Testing
 POC-PRO-015 Blood Gases Radiometer Maintenance Procedure 2020__controlled_copy_ID_233945	...	March 17	 Jones-Lawson, Arlette	Ancillary Testing
 POC-PRO-016 Blood Gases Testing Using the Radiometer ABL-800 Series__controlled_copy_ID_233947	...	March 17	 Jones-Lawson, Arlette	Ancillary Testing
 SYS 113 02 System 113-02 ATC Protocol__controlled_copy_ID_233954	...	March 17	 Jones-Lawson, Arlette	Ancillary Testing

Category : Contacts (2)

# QUALITY CONTROL

Is how you verify that your glucometer is working correctly and provide you with accurate results





# QUALITY CONTROL

Controls are good for

**Ninety (90) Days**

from when they are opened  
and need to be dated  
with both  
**Opened and Expiration  
date.**



# QUALITY CONTROL

Always!!!!

Write on the vial

**Open and Expiration**  
dates.

**It's a**

**Joint Commission**  
**Requirement**



# QUALITY CONTROL

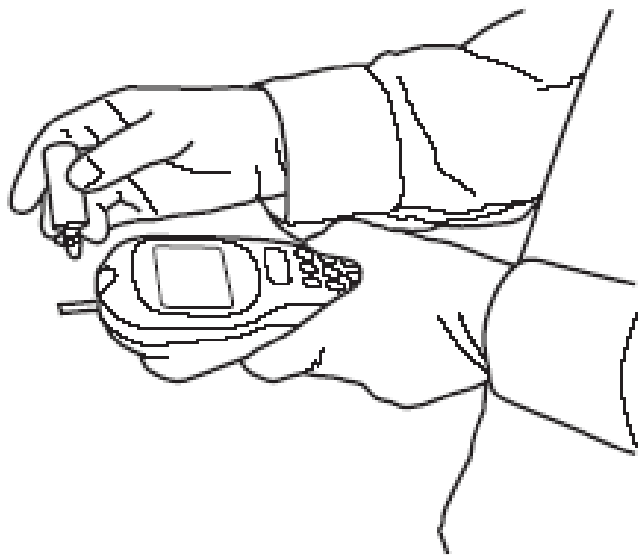
Control testing should be performed in the following circumstances:

- Required once every 24 hours
- If a patient test has been repeated and the blood glucose results are still lower or higher than expected.
- When troubleshooting the glucometer
- **Whenever the glucometer has been dropped.**



# Running QC

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# Quality Control Notes

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- Invert the control solution bottle a few times
- **Always keep the meter horizontal during testing.**
- The glucometer will not let you run patients until QC has been performed for that day.
- QC results in a “Pass” or “Fail”



# If QC Fails...

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- Repeat control level
- If it Fails...
- Open a new set of controls
- If it still fails...
- Glucometer might have issues.
- Contact us immediately



# Glucose Patient Testing

# Patient Identification

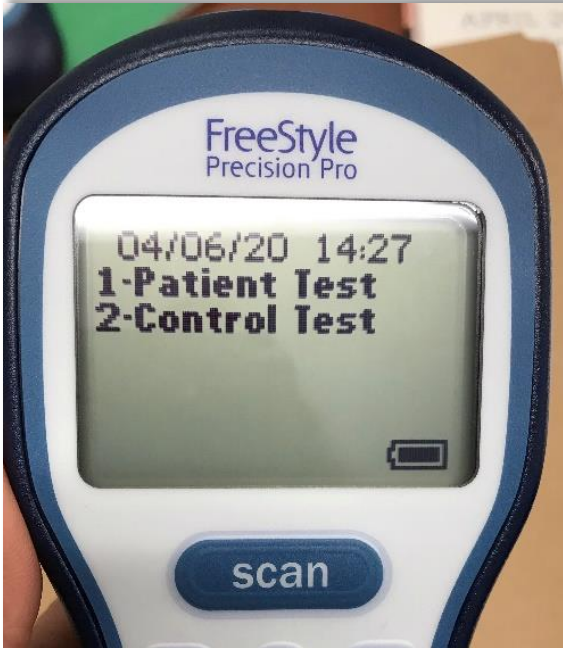
Always!!!!

Use 2 identifiers:

Full Name

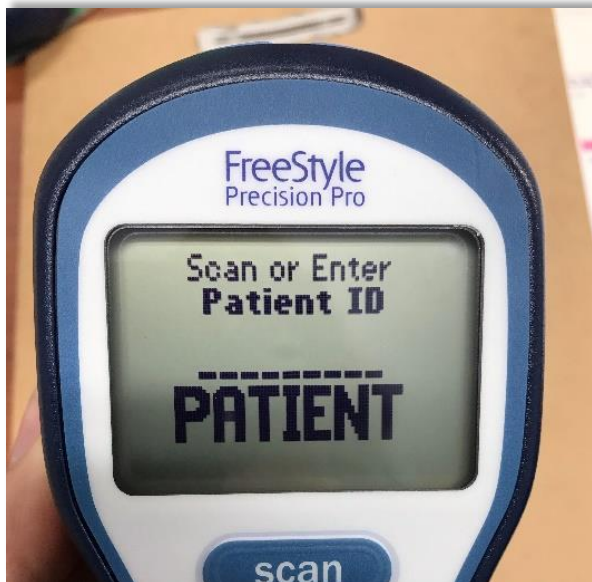
Full Social Security  
Number (SSN)





# Patient Testing

- Select “Patient Test”



- Scan patient wristband.
- Scanning is highly recommended!!!

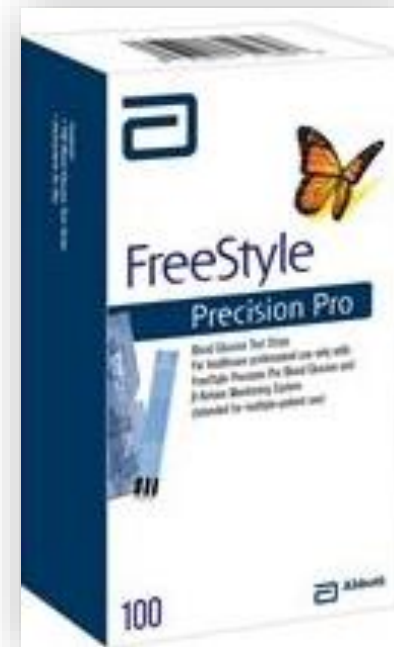
# Freestyle Precision Pro Glucometer Abbott

Glucometer Strip

## FreeStyle Precision Pro Blood Glucose Test Strip



↙

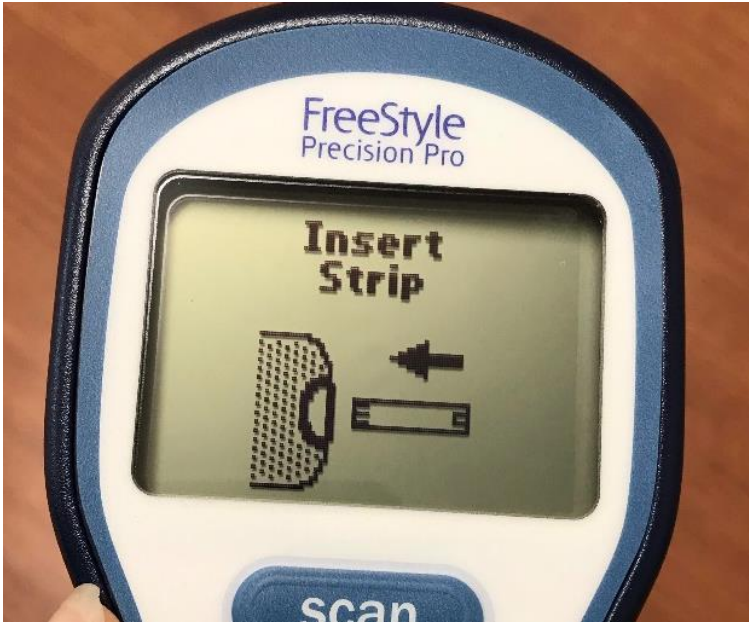


# Scan strip

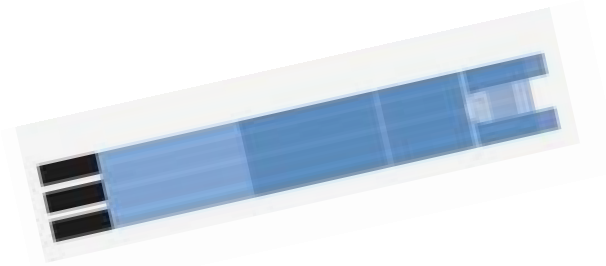


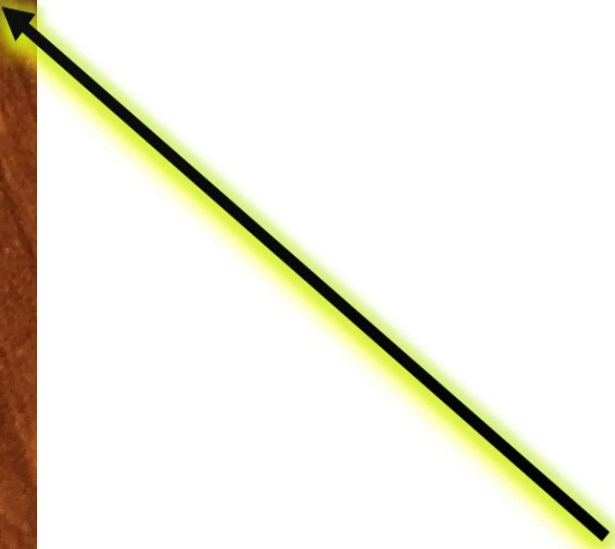
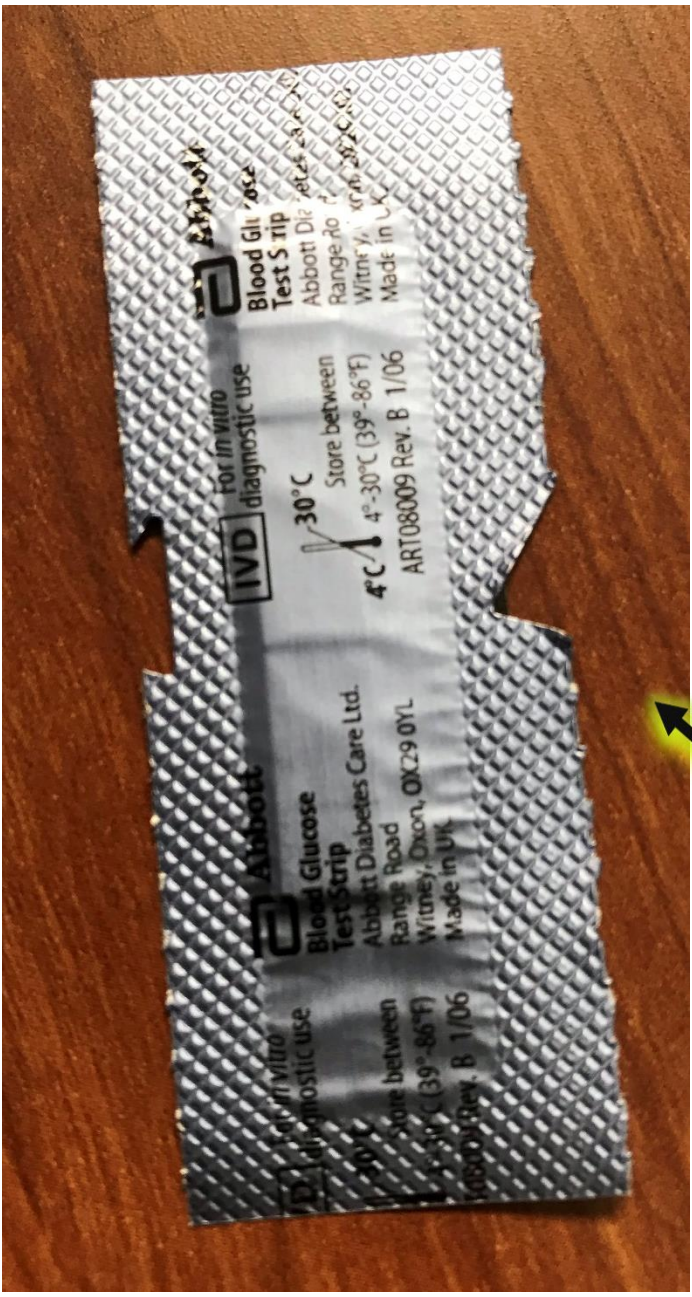
- Do not use test strips after expiration date.
- Do not use test strips that are damaged in any way.
- Do not use the test strip if the foil packet has a puncture or tear in it.
- Use the same scanned strip for testing





- To open strips hold with left hand with barcode facing away from you.
- Grab the lower tip of the notch (see arrow) and tear left and down.
- You should see a print resembling piano keys.
- Handle the strip by the middle, **do not touch the testing area and connectors**





# Testing Strip



Testing area.  
Do not touch!!!

Contact Bars  
“piano Keys”  
Goes inside glucometer

# Specimen Collection and Handling

- Capillary blood from a finger is the specimen of choice
- Venous and arterial whole blood with **lithium heparin**, **sodium heparin** and **EDTA** are acceptable.



# Specimen Collection and Handling

- **Capillary blood from a finger is the specimen of choice**
- Venous and arterial whole blood with **lithium heparin**, **sodium heparin** and **EDTA** are acceptable.
- Clear arterial lines before blood is drawn and dosed on the strip. Avoid air bubbles. Mix thoroughly and perform within 30 min.
- Venous and capillary blood may differ in glucose concentration by as much as 20%, depending on the time of blood collection after food intake.



# Specimen Collection and Handling

- Perform hand hygiene and put on disposable gloves
- Hold patient's arm downward to allow blood to flow to fingertip, choose site, usually side of the fingertip is less painful
- Clean site with alcohol or soapy water, allow to dry, use single use lancet to puncture side of finger.
- Gently squeeze finger to get large hanging drop of blood

# Specimen Collection and Handling



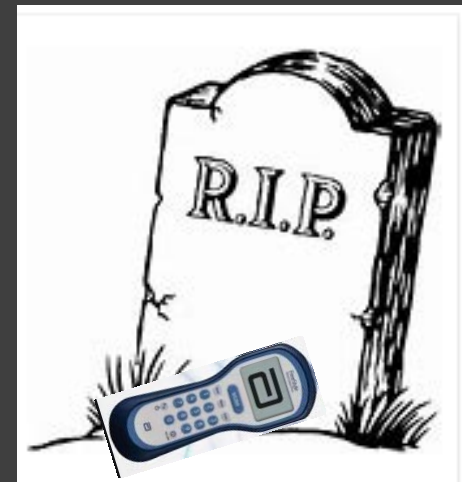
The most important part  
of fingerstick technique

**Wipe off the  
first drop of  
blood!!!!!!**

# Specimen Collection and Handling

Never scoop the  
blood!!!

Blood will get inside strip  
port and damage the  
glucometer



# When to apply the sample?



Do not apply  
blood to the strip  
until the screen  
says:  
**Apply sample**

- Always keep the meter horizontal during testing
- Finger stick samples must be tested immediately

## Specimen Collection and Handling (Cont'd)

Once the test has been completed, the result will be displayed on the screen

- Expected/Reference Range: 65-99 mg/dL
- Reportable Range: 20 – 500 mg/dL
- If result is outside of Reportable Range, it will be displayed as <20 or >500

# Critical Results NF/SG

## <50 or >500 mg/dL

- Resolve discrepancies with laboratory glucose testing.
- **Document in Critical Value Template.**

**This is mandatory!!!!**

**Policy: 113-4 Point of care Glucose Critical Value follow up**

# Critical Value Documentation

- It is mandatory to document glucose result, notification of the result and action taken (treatment) using the Critical Value Template

Reminder Dialog Template: CRITICAL VALUE (T)

Lab Value

Name of Critical Lab(s) \*

Time unit notified of results \*

Critical Lab Result(s) \*

Time physician notified of critical result (24 hr clock)

Time physician notified \*

Name of Physician Notified \*

Provider Read Back:  Yes  No

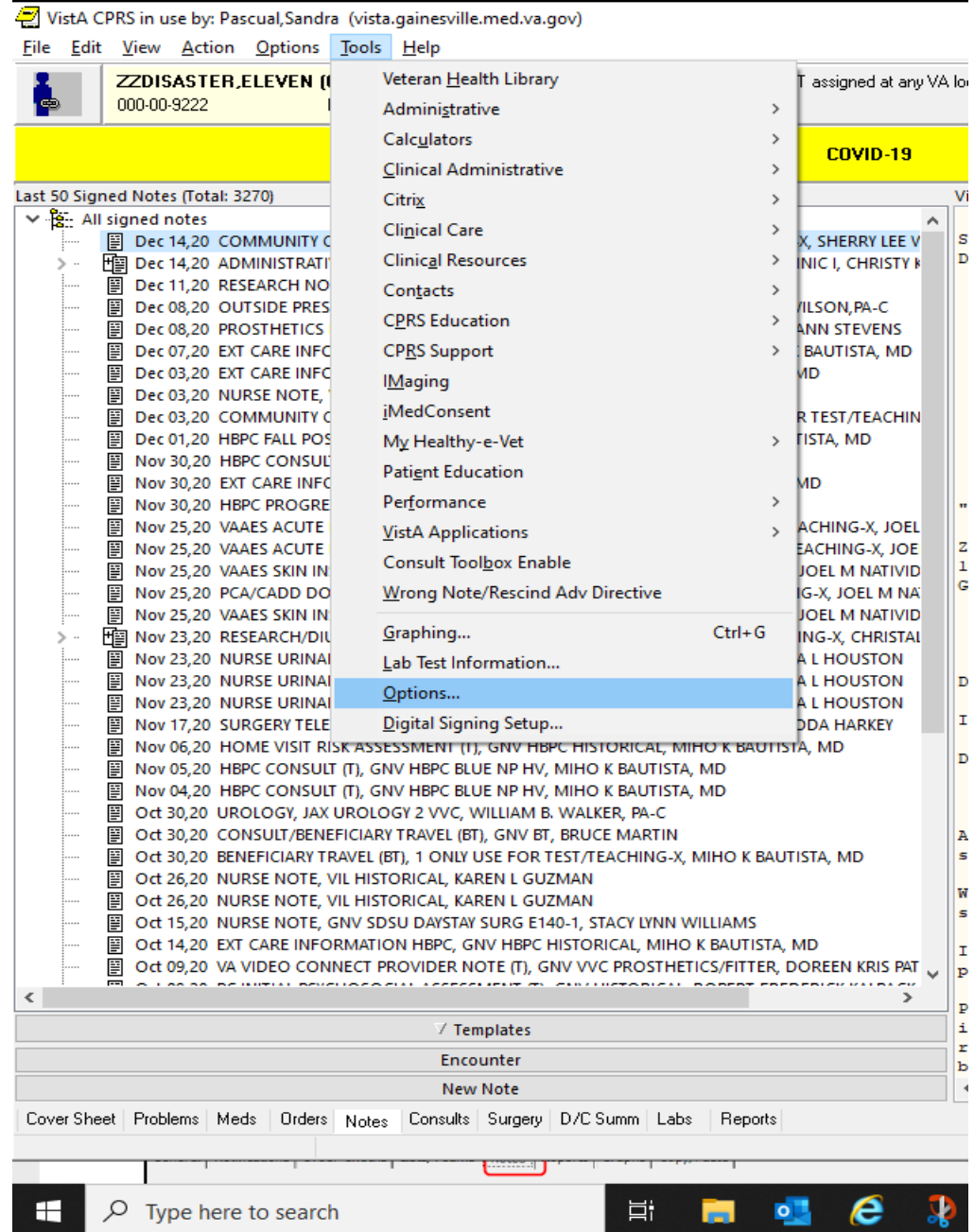
Patient Treated/Action Taken:  Yes  No

**Critical Value Template**

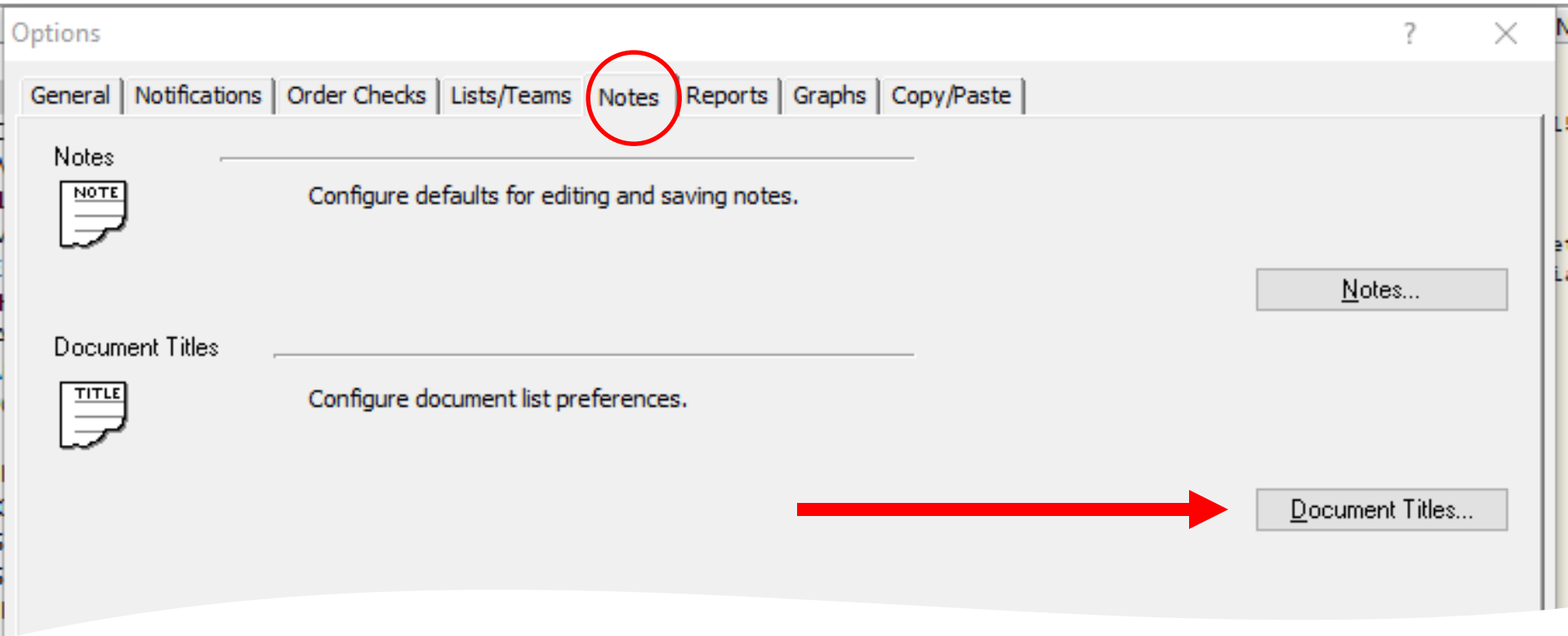
Check here if author is different than staff notified of critical result.

# Critical Value Documentation

- For easy access to the Critical Lab values template:
  - Click on tools
  - Options







## Critical Value Documentation

- For easy access to the Critical Lab values template:
  - Click on tools
  - Options

# Critical Value Documentation

- Click on Notes
- Document titles
- Search: Critical value and select:
  - Critical value (T)
- And Add

Vista CPRS in use by: Pascual,Sandra (vista.gainesville.med.va.gov)

File Edit View Action Options Tools Help

ZZDISASTER.ELEVEN (OUTPATIENT) TESTING Dec 16,20 09:52 No PACT assigned at any VA location  
000-00-9222 May 08,1936 (84)

Document Titles

Document class: Progress Notes

Document List Preferences

Document titles:  
CRITICAL <CRITICAL VALUE (T)>

Default: <no default specified>

list of titles:

Add Remove Save Changes Set as Default

OK Cancel

Notes...

Document Titles...

OK Cancel Apply

Please respond within 14 calendar days or date on the letter if you are interested in scheduling this appointment. After 14 days, the care requested can be discontinued. Any contact past the 14 days will have to be approved again by the referring physician at the VA Medical Center.

/ Templates

Encounter

New Note

Cover Sheet Problems Meds Orders Notes Consults Surgery D/C Summ Labs Reports

Type here to search

# Critical Value Documentation

Fill out the template with all the required information

Reminder Dialog Template: CRITICAL VALUE (T)

Name of Critical Lab(s) \* POC Glucose

Time unit notified of results \* 1245

Critical Lab Result(s) \* 550

Time physician notified of critical result(24 hr clock)

Time physician notified \* 1255

Name of Physician Notified \* Dr. William Sweet

Check here if author is different than staff notified of critical result.

Provider notified by (if different from author of this note): \*  
Sally Swift, NA

Visit Info Finish Cancel

Critical Lab Result(s)  
Name of Critical Lab(s) POC Glucose  
Time unit notified of results 1245  
Critical Lab Result(s) 550

Health Factors: CRITICAL LAB NOTIFY STAFF, CRITICAL LAB PERSONNEL, CRITICAL LAB TEST, CRITICAL LAB TIME NOTIFIED, CRITICAL LAB VALUE

\* Indicates a Required Field

# Critical Value Documentation

- Be accurate with the value
- Do not use brand names like Accucheck, etc

# Comment Codes

## Comment Code Reference Guide

<u>Code</u>	<u>Description</u>
1	Repeat test
2	Procedure error
3	Treated patient
4	Notified RN/MD

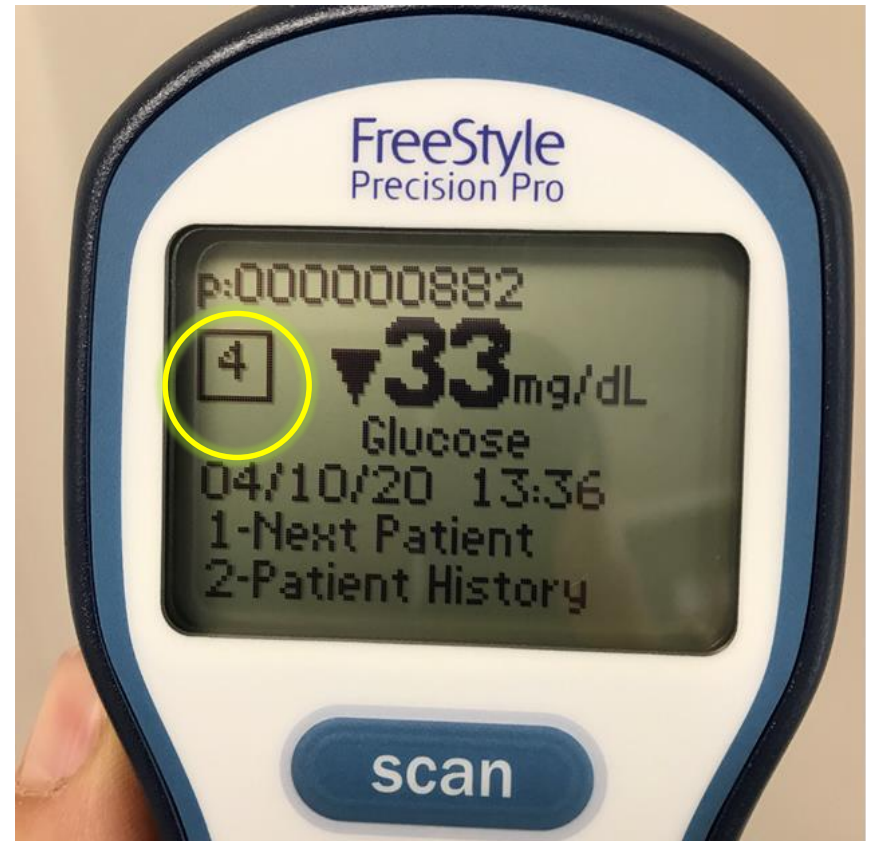
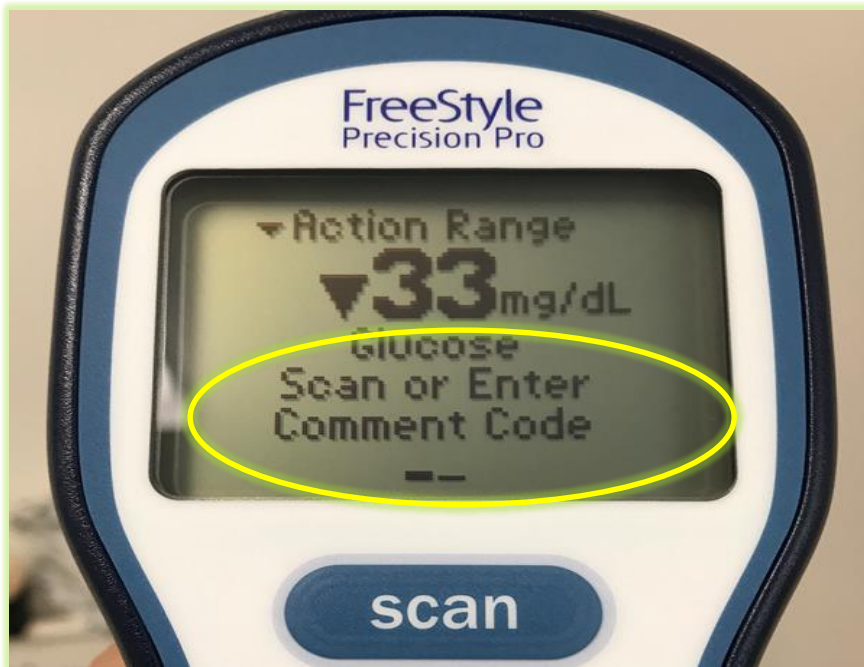
# Comment Codes

- **Required when obtaining a critical value**

## Comment Code Reference Guide

<u>Code</u>	<u>Description</u>
1	Repeat test
2	Procedure error
3	Treated patient
4	Notified RN/MD

# Comment Codes



# What to do during an emergency

- To be used when no patient ID is readily available

**Use all Zeros or all 9's**

**000-00-0000**

**999-99-9999**

- **Never use consecutive numbers!!!!**
- After the emergency it is required to send an encrypted email with the full name and full social of the patient to the Ancillary Testing Coordinators



# Ancillary Testing Coordinators email

[VHANFLATC@va.gov](mailto:VHANFLATC@va.gov)

Or call us to the government phone listed in the glucometer box

# Dock glucometers!!



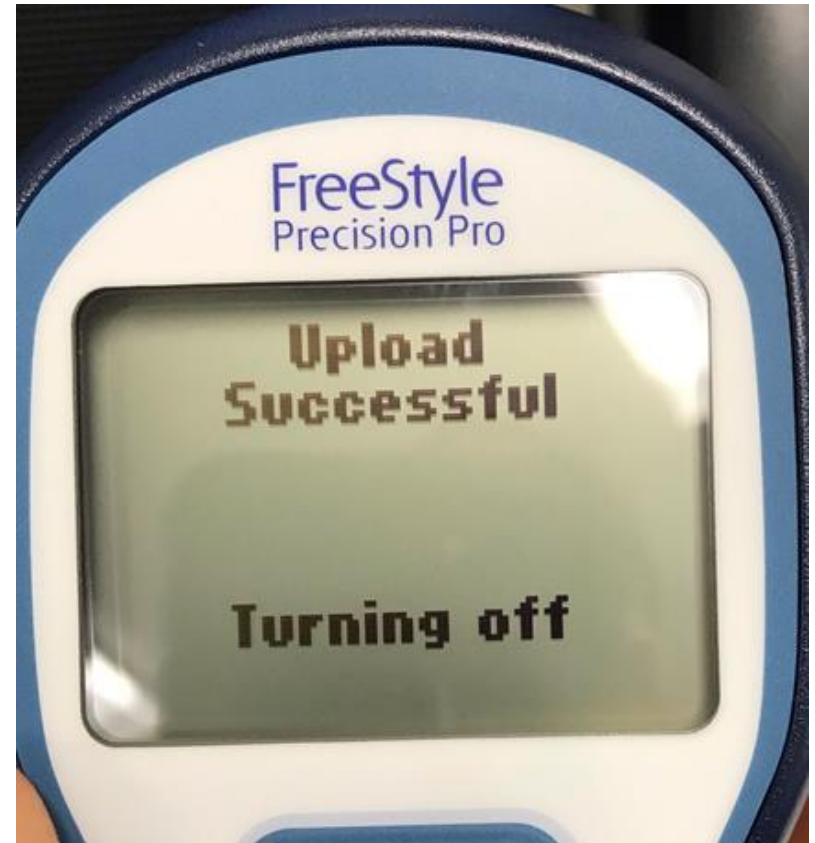
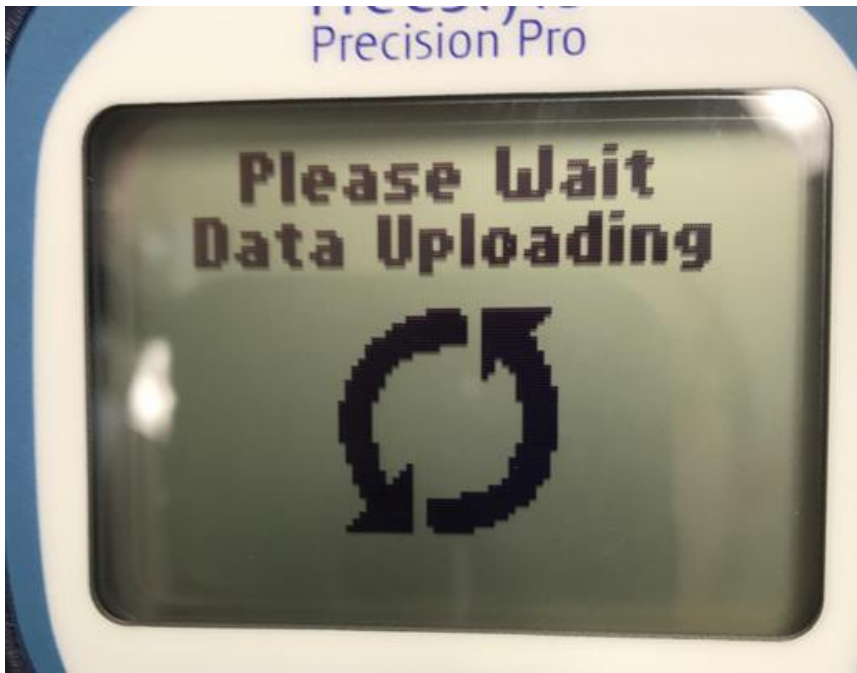
## Docking Glucometer:

- Provides a route for transferring data or configurations
- Upload patient's results to the chart
- Provides accountability of all glucometers

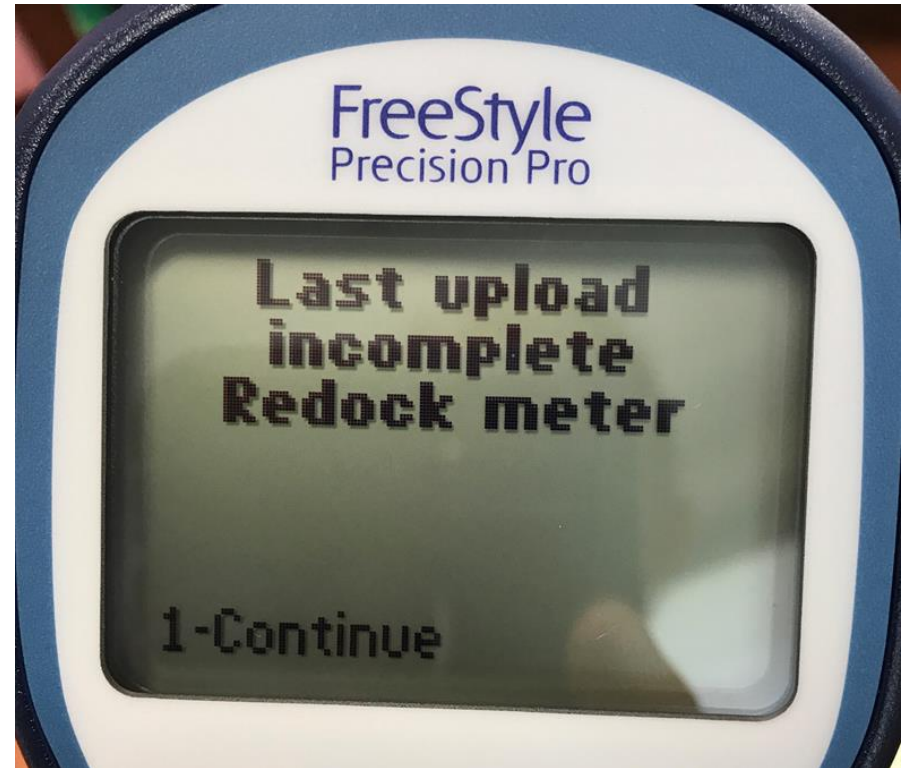
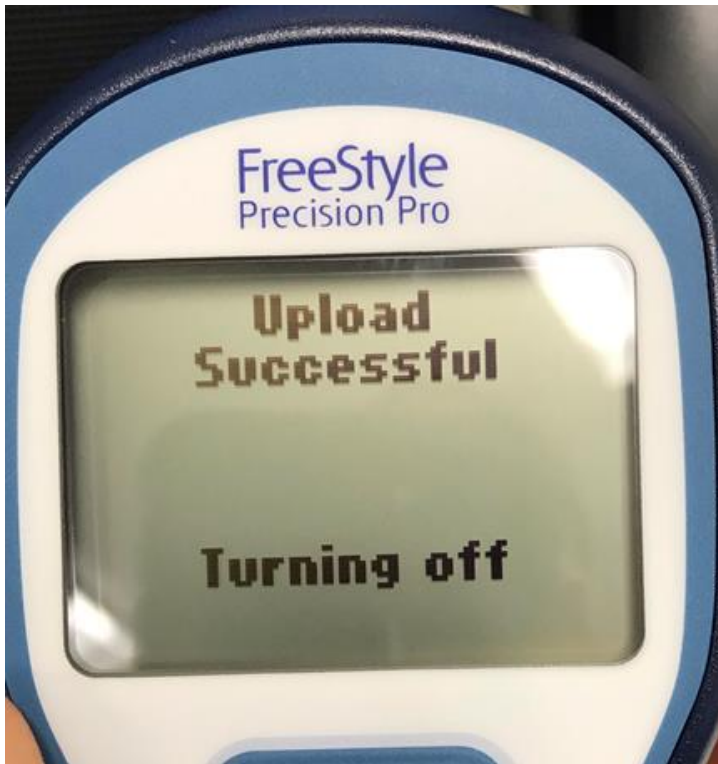
**Glucometers are required to be docked as often as possible after patient testing or once every 24 hours**

# Docking glucometer

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# Docking issues



# Docking issues

- Try to dock the glucometer again
- Inspect the docking station to make sure is not broken or dust particles blocking the docking port
- Restart /Reboot the computer connected to the docking station
- If this doesn't fix the communication issue. Contact the ATC office.
  - Write down the EE number of the PC connected to the docking station

# Missing Glucometer



Glucometer can save up to 2,500 social security numbers with results



Notify the nurse manager immediately



Look everywhere



Notify VA police, and Information Security Officer (ISO)



Notify the Ancillary Testing Coordinators

# Flagged Results

**The following results will not cross to the patient's chart immediately**

- Critical values
- Patient ID errors
- Results ran within 15 minutes of each other
- Patient's without appointments
- Tests ran by operators with invalid operator code

# Procedure for Isolated patients



# Procedure Isolated patients

## Use a plastic bag for glucose meters to protect the instrument

1. Place instrument inside plastic bag with strip port pointing toward the open end of the bag.
2. Prepare the glucometer for patient testing
3. Apply capillary blood
4. Once the result is obtained enter a comment /action if needed into the meter, remove and discard used test strip.
5. Remove and discard one glove
6. Remove the meter from the bag with the free hand. Remove and discard the second glove.
7. Using new pair of gloves, disinfect the glucose meter using a bleach wipe, and hand hygiene protocol to wash hand.

# Glucometer Maintenance

# Maintenance

Reusable medical equipment.

Cleaning and disinfecting the exterior surface of the meter is

required  
after each  
patient  
use.



# Cleaning the glucometer



**IMPORTANT:** *If a pre-packaged wipe is used for cleaning, excess fluid should be squeezed out to keep liquid from entering the monitor. Permanent damage could occur.*

# Cleaning/ Disinfecting the Glucometers

- Glucometers need to be cleaned with **Hydrogen Peroxide** or ***Clorox Wipes*** after each patient or QC.
- Remove excess liquid from wipe; do not get liquid in strip port.
- Allow to dry thoroughly after cleaning and before docking

# Proficiency Testing

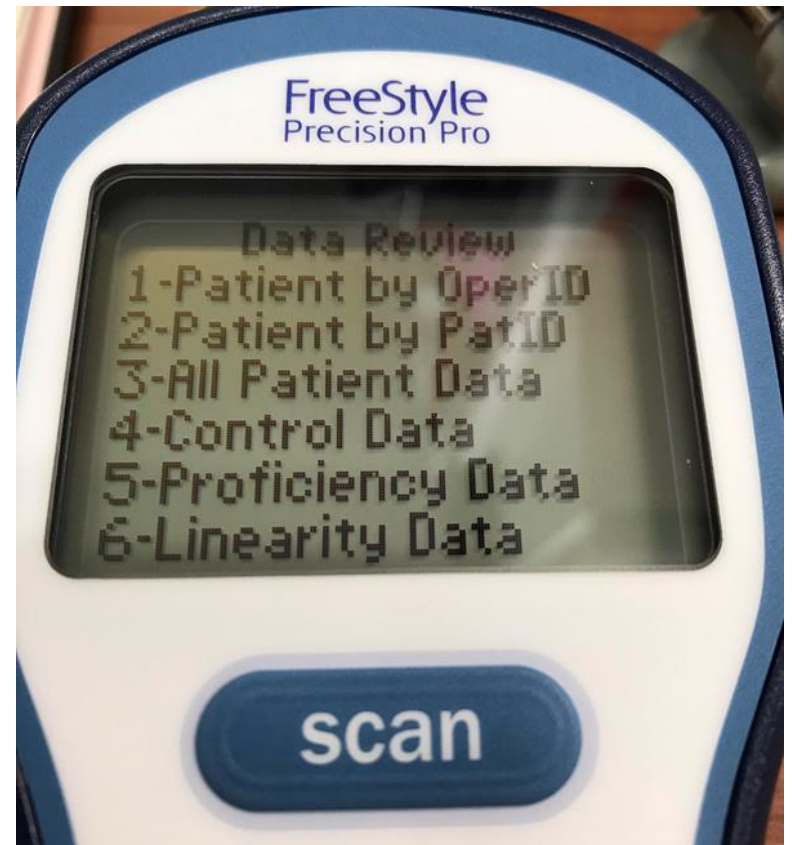
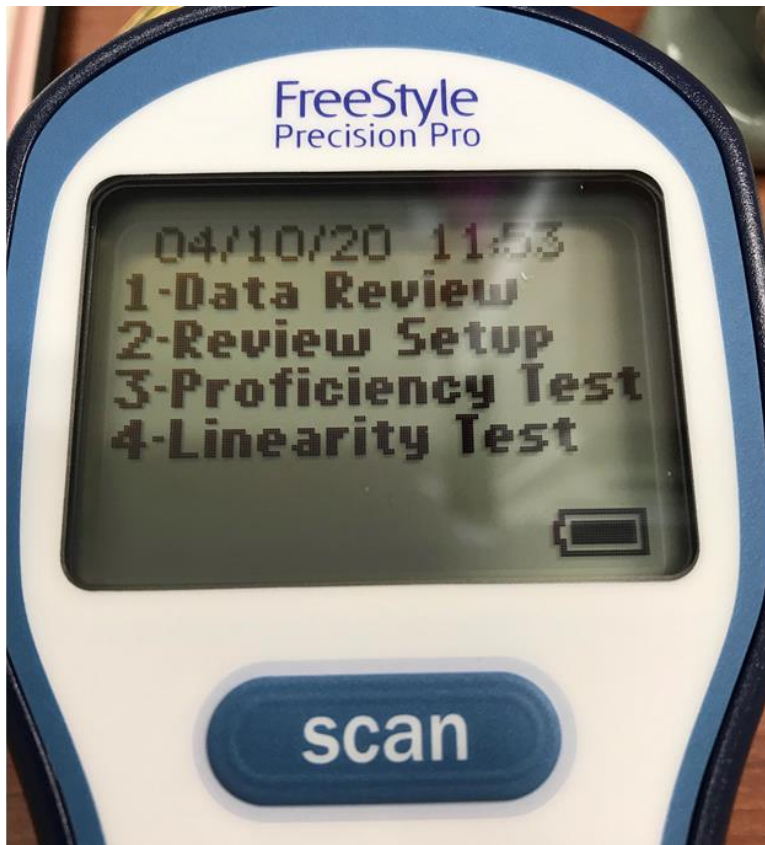
- We are a College of American Pathologist (CAP) accredited facility
- Testing of PT samples must be performed by personnel who perform patient testing.

# Self Testing is not allowed!!!

- It is against the VA Rules of Behavior and Occupational Health Service Policy to self test or test a co-worker
- Employee needs to visit Employee Health or the Emergency Department

# Downtime procedure

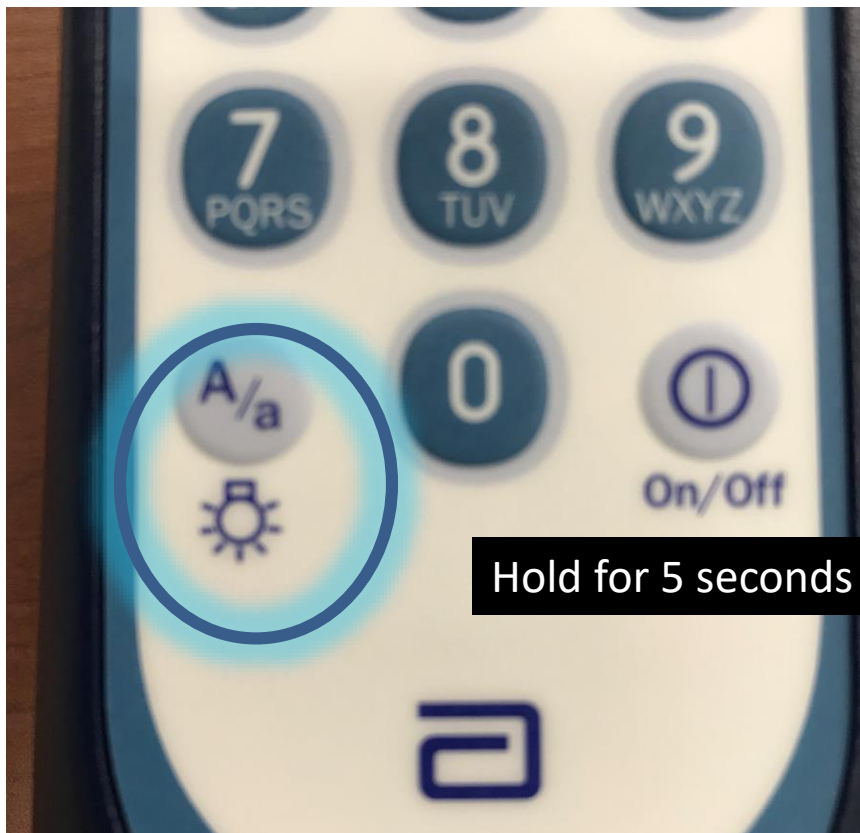
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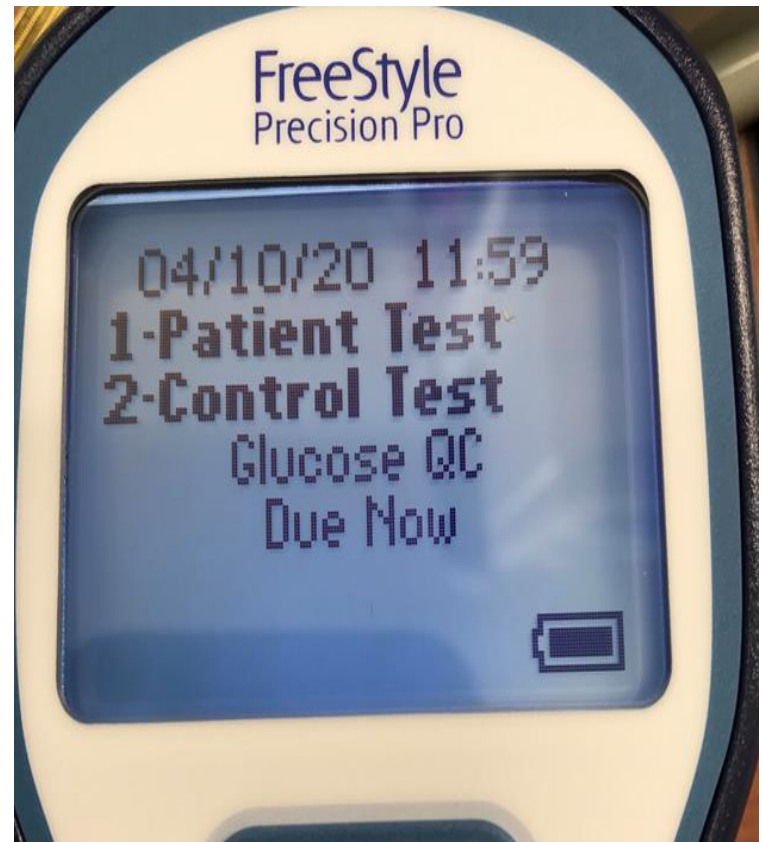


# How to backlight the screen

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Hold for 5 seconds





Let's do some testing!

# If you need assistance raise your hand

- Today your Operator Code and the patient ID will be the card with the barcode
- Run QC
  - Level Low
  - Level High
- Patient Testing





1. How often should you perform maintenance?

**After each patient**

2. How long is the quality control solution good for after opening?

**90 days**

2... What information is documented on the vials?

**Open & Expiration  
dates**

3. What are the critical values for the glucometer for NF/SG Veterans Health System?

**<50**

**>500**



4. What is the most important part of fingerstick testing?

**Wipe off the first drop of blood**

5. How often should you download/dock your meter

**As often as possible, After each patient testing**

6. When should you apply the blood to the strip?



**When it tells  
you to apply  
the sample**

7. When is it mandatory to enter a comment code after testing a patient?

**When the result is  
a Critical Value**

8. In computer downtime situation, the glucose results will not be transmitted to the patient's electronic records. How can you retrieve the patient's results from the glucometer device? How do you document the results during the downtime situation?

**Menu**

**Data Review**

**Follow your ward/clinic protocol contingency plan during computer downtime**

9. Where can you find your operator ID or DUZ number?

**VISTA**

**^Display user characteristics**

10. If you experience any problems with the glucometer or docking station, who do you notify? Where can you find their numbers?

**Sandra, Dolly, and Lynn  
ATC**

**Glucometer box**

11. There is limitations to the procedure and the use of the glucometer. For what patients the glucometer is not intended to be used to perform glucose testing?

**Critically ill Patients**



Any  
Questions?

Sandra Pascual  
Dolly A. Gonzalez  
Jo Lynn Evans

**VHANFLATC@va.gov**

**Contact information located in the glucometer box**