

Document History:

Title: StatS Manu	trip Glucometer Operator's al	Site(s):	Shared Health		
Document #:	110-130-10	Version #:	01		
Section:	Clinical Biochemistry	Subsection:	Point of Care		
Approved by: Signature:	Hayden Malvern Hayden Malvern	Date:	06-June-2018		
		Effective Date:	06-July-2018		

Details of Recent Revision

1. New document.

Hayden Malvern 06-June 2018



Purpose	To provide direction on safe use of Blood Glucose Meters (Nova					
	StatStrip), and associated infection control and quality assurance					
	requirements for laboratory staff.					
Introduction	Glucose is the major carbohydrate present in the peripheral blood.					
	Oxidation of glucose is the major source of cellular energy in the body.					
	Glucose derived from dietary sources is converted to glycogen for					
	storage in the liver or to fatty acids for storage in adipose tissue.					
	The concentration of glucose in blood is controlled within narrow limits					
	by many hormones, the most important of which are produced by the					
	pancreas. The most frequent cause of hyperglycemia is diabetes mellitus					
	resulting from a deficiency in insulin secretion or action. A number of					
	secondary factors also contribute to elevated blood glucose levels. These					
	include pancreatitis, inviola dysfunction, renai failure and fiver disease.					
Principle	The glucose measurement is based on the following methodology:					
	The grueose measurement is based on the following methodology.					
	Glucose + Enzymes(oxidized form) → Gluconic Acid + Enzymes(reduced form)					
	Enzymes(reduced form) + Ferricyanide \rightarrow Enzymes(oxidized form) + Ferrocyanide					
	Ferrocyanide Ferricyanide					
	The current generated at the electrode is proportional to the glucose					
	concentration of the sample.					
D (* 1/1						
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<u> </u>						
Storage &	Blood Glucose Meters, test strips and quality control solutions must be					
Handling	storec	according	to man	utacturer's instr	uctions.	
Matoriale				Vandar aada		SAD
Waterials	State	Itaria Clusso		52400		205079
	Statz	Surip Giuco	se	53400		203978
	Class		·	40014		202422
	Gluc	$\frac{1}{1}$ $\frac{1}{1}$ $\frac{1}{1}$ $\frac{1}{1}$	пр	42214		203423
	Alco	hol swabs				
	Lanc	ets				205000 205050
	Cont	trol Solutio	ons	41741, 41743		205980, 205979
		<u>L3</u>		40450		
	Stat	421/3 302261				302261
	Line	arity Kit				
G C (F 11		т 1 и	<i>.</i> .		
Salety	Follo	w Routine	Laborat	ory practice		
Sampla	Whol	e Blood (F	resh So	dium henarin I	ithium l	penarin). Arterial
Requirement	Veno	us Canilla	rv	urum neparm, r	Jununi	reparinj. Arteriar,
Requirement	VCIIO	us, Capina	l y			
Ouality Control	Level	land Leve	el 3 of N	lova StatStrip G	lucose c	ontrol solutions are run
Quality control	and e	valuated or	nce ever	v 24 hours or be	efore pat	ient or EPT testing
	which	ever is les	s freque	nt and if a prob	olem is si	uspected with the meter
			s neque	ni, una n'a proc		
	EPT – Subscribe to CAP- Quality Cross Check - Whole Blood Glucose					
	(WBGQ) program					
Linearity Check	HSC	& SBH La	bs Only	- Run the linea	rity chec	ck solutions every 6
	month	ns. Evaluat	e agains	st acceptance cri	teria and	l document.
Running Samples	Follo	w the proce	edure be	low to run and	evaluate	the quality control
	soluti	ons				
	Step					
	1	From the	Patient	Test screen	1	
		If			Then	
		QC			press th	ne QC
		Patient s	ample		press th	ne Accept
	2	The Enter	r Strip I	ot screen is dis	played. H	Enter the Strip Lot
		Number of	or scan f	the barcode. Pre	ss the A	ccept, if the lot number
		is correct				
	3	If	Then			
		QC	The E	nter QC Lot scro	een is dis	splayed. Enter the OC
			lot nur	nber or scan the	barcode	e. Press the Accept, if
			the lot	number is corre	ect.	····
		Patient	From	the Enter Patien	t ID scre	en, enter or scan the
		sample	Patien	t ID. Once the P	atient's	D/Accession Number
		p.v	has be	en entered pres	s the Ac	cent.
	4	The Inser	t Strin s	creen is display	ed Inser	t a Test Strip
	4 The Insert Strip screen is displayed. Insert a Test Strip					



	5	With the test strip correctly inserted, the Apply Sample screen is			
		displayed.			
	6	If Then			
		OC -Gently mix the StatStrin Glucose Control Solution	n		
		Discoul the first days of control solution from the			
		-Discard the first drop of control solution from the	<u>ا</u> ^د		
		bottle to avoid contamination.			
		-Place a drop of control solution from the bottle at	the		
		end of the test strip until the well of the test strip is	3		
		full and the meter beens			
		Recan the control solution			
		Detiont Eollowing COD 100 10 70 "Dhlab storms Callesting			
		Patient Following SOP 100-10-79 "Phlebotomy Collection			
		sample Manual", collect a skin puncture sample. Wipe			
		away the first drop of a skin puncture sample.			
		Touch the end of the test strip to the blood drop un	itil		
		the well of the test strip is full and the meter beens			
			·		
		CAUTION. If the test strin does not fill completely DO NO			
		CAUTION: If the test strip does not ful completely, DO NO	<u>''</u>		
		touch the test strip to the blood a second time. Discard the strip			
		and start over with a new strip.			
	7	The Testing Sample screen is displayed. In six seconds, the to	est		
		results are displayed in mmol/L.			
	8	Use the ejector button on the back of the meter to eject the strip			
		directly into a biohazard container.	1		
	9	To accept the result press Accept			
	10	Evaluate and document results			
	10	Evaluate and document results			
		If Then			
		II Inch OC regults Explusts and de sum ont in OC los			
		QC results Evaluate and document in QC log			
		Patient results Slot enter the result in Delphic LIS			
	11	When the meter is not in use, place it into the Docking/Charg	ging		
		Station.			
Reporting		Slot enter results into the LIS			
Defence - D		2.2 (0, mmal/I)			
keterence Kange		3.3 – 0.0 MM01/L			
Reportable		0.6 - 33.3 mmol/L			
Range					
~					



Clinical Limits	WRH Adul Pedia Neon	IA t tric ate	Critical Low 2.5 2.5 1.7	Normal Low 3.6 3.3 2.8	Normal High 6.0 5.6 4.4	Critical High 25.0 25.0 18.0	
	Ration Biome breach Action Autom	 onal: These limits have been programmed into all Glucose meters by edical Engineering for clinical use. Meters will flag when limits are hed. on: Draw a random or FBS sample, accession, analyze on the I-stat or mated lab analyzer and report as random or FBS as applicable. 					
Maintenance	As Re	quired					
Replacing the Battery	Step						
	1	Press	Press the Power button to enter the Sleep Mode.				
		If			Then		
		Rep	lace within 20 s	seconds	Date/Time setti	ngs are not lost	
		>20	seconds		Refer to operate set Date/Time	ors manual to	
	2	Pull back on the cover latch to release the cover. Take the battery cover off the back of the meter.					
	3	Push up on the battery latch. Remove the drained battery.					
	4	Replace with a fully charged battery.					
	5	Repla	ice the battery	cover.			
	6	Place	the drained ba	ttery into the	Charging Statior	1.	
Cleaning the Meter		Apply surface	Apply 70% Isopropyl Alcohol to a soft cloth and wipe the meter surface. Once complete, immediately dry thoroughly.				



Interfering	The StatStrip Glucose Hospital Meter exhibits no interference from the					
Substances	following substances up to the following concentration levels:					
	[1		
	Interfering Substances		Concentration	n Level		
	Acetaminophen	10.0 mg/c	łL	0.66 mmol/L		
	Ascorbic Acid	10.0 mg/c	łL	0.57 mmol/L		
	Bilirubin	15.0 mg/c	łL	0.26 mmol/L		
	Cholesterol	500.0 mg	/dL	12.9 mmol/L		
	Creatinine	6.0 mg/dI	- 	0.53 mmol/L		
	Dopamine	10.0 mg/c	1L	0.53 mmol/L		
	Ephedrine	0.9 mg/dI	- 	0.055 mmol/L		
	D(+) Galactose	350.0 mg	/dL	19.4 mmol/L		
	Hematocrit (RBC)	20% - 659	%			
	Ibuprofen	48.0 mg/c	łL	2.33 mmol/L		
	L-Dopa	100.0 mg	/dL	5.07 mmol/L		
	D(+) Maltose	240.0 mg	/dL	6.66 mmol/L		
	Monohydrate	_				
	D(+) Maltotetraose	240.0 mg	/dL	3.6 mmol/L		
	D(+) Maltotetriose	240.0 mg	/dL	4.76 mmol/L		
	Methyl-Dopa	1.0 mg/dI	- 	0.042 mmol/L		
	Oxygen	All Conce	entrations	1.87 mmol/L		
	Salicylate	30.0 mg/d	łL			
	Tetracycline	30.0 mg/d	łL	0.62 mmol/L		
	Tolazamide	15.0 mg/c	łL	0.48 mmol/L		
	Tolbutamide	45.0 mg/c	łL	1.67 mmol/L		
	Triglycerides	750.0 mg	/dL	8.78 mmol/L		
	Uric Acid	20.0 mg/c	łL	1.05 mmol/L		
New or	Prior implementing for pa	tient testing	5.			
Replacement						
Meters	HSC & SBH		All Other Sites			
	Run all 5 levels of the Li	nearity	Request the val	idation		
	solutions and the two lev	el of QC.	documentation	from your		
	Evaluate against acceptar	nce	Biomedical Eng	gineering when you		
	criteria and document for	•	pick up the meter.			
	accreditation purposes		Dup the two lex	rals of OC		
			Run the two levels of QC.			
			criteria and doc	ument with the		
			validation docu	mentation from		
			Riomedical End	jineering		
				5		



Troubleshooting Refer to the Nova Instructions for Use Manual Call clinical Biomedical department for your site or region Contact Nova Biomedical Technical Support toll free at 1-800-545-NOVA. Associated MediaLab TACA, 230-10-57 **Documents** QC for StatStrip Blood Glucose POC Meter - F110-10-17 StatStrip Glu IFU 1.86 PN53083C EN Reference DSM Lab Information Manual SOP 110-130-01 v2 WRHA Program clinical ranges (HSC Biomedical Engineering)



Version #: 01



Glucose Monitoring System Quick Operating Guide

 Weikome

 Nore 200
 SN1

 SN1
 Facility:

 Press OK to begin testing

 Batt:
 Mem:

 View
 Login

 View
 Setup

1 From Home screen, press Login.



5 Enter or scan Patient ID and press Accept.



9 Touch strip to blood drop. Result will appear within 6 seconds.



2 Enter or scan Operator ID and press Accept.



6 Insert Test Strip into Meter.

10 Warning!

The test strip must fill completely upon touching the blood droplet. If the test strip does not fill completely, do not touch the blood droplet a second time. Discard the test strip and repeat the test with a new test strip.

Period 194540 Damyl Smith	Kesult 2646		240
Patient	Pending	07/19 06:	19
5	.7	/L Normai 3.9-6.1	
_			

11 To accept result, press Accept. To reject result, press Reject.



int Test

Glu

press Review from Patient Test screen.



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3 From Patient Test screen, press Accept.



7 Wash patient's hand thoroughly and massage finger to stimulate blood flow.



4 Check Strip lot no. and press Accept.



8 Use safety lancet to puncture finger / squeeze finger to form blood drop. Wipe away the first blood drop.



StatStrip Glucometer Operator's Manual

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Welcome
3N1
Facility: Your Facility location: 3North
Press OK to begin testing
Batt: Mem: View Review Login Setup

From Home screen, press
Login.



4 Check Strip lot no. and press Accept.

Enter Op	erator ID	€ 124
1	2	3
4	5	6
7	8	9
Scan	0	ABC
Back	San	

2 Enter or scan Operator ID and press Accept.



5 Enter QC lot no. and press Accept.

8 Warning!

The test strip must fill completely upon touching the QC droplet. Do not add a second QC drop to the test strip. Discard the test strip and repeat the test with a new test strip.



9 Result will appear within 6 seconds.



10 To accept result, press Accept.

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Patient Test

3 From Patient Test screen, press QC.



6 Insert Test Strip into Meter.



7 Touch drop from QC bottle to strip. Result will appear within 6 seconds.



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Glucose Monitoring System Troubleshooting Guide



 Change battery or place meter into charging/docking station.



2 The test has been cancelled, repeat the test with a new test strip. Leave the test strip in place until the result is displayed on the screen.



3 Meter will only work in a temperature range of 59-104°F (15-40°C).



4 Insert new strip and repeat test. If the error code persists, perform the test using an alternate strip vial or alternate method.



5 Occurs after test strip insertion or during analysis. Insert another strip and repeat the test. If the error code persists, perform the test using an alternate strip vial or alternate method.



6 Either insufficient sample or the sample was applied incorrectly. Repeat test with a new strip. If the error code persists, perform the test using an alternate method.



7 Server refuses to allow dialog with meter or connection to server was broken. Check network settings, network status, or contact your administrator for assistance.



8 Meter was removed before data transfer was complete. Redock the meter.

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APPENDIX A:

Stat Strip Glucose Monitoring System Quick User Guide

<u>Maintenance</u>		<u>Qu</u>	ality control (QC)		Patient Testing
1.	Clean Glucose meter between Patient use with OxyvirTB wipes.	1.	QC to be completed every 24 Hrs. Visual message warning when QC due.	1. 2.	From welcome screen, press login . Enter operator Id (1) & press
2.	Dock meter in docking station when not in use.	3.	press login. Enter operator ld (1) & press Accept.	3. 4.	From patient test screen, press Accept. Scan test stripe lot no.
3.	Test Strips expire <u>at 6 months</u> once vial open. Date vial once opened.	4. 5.	From Pt test screen, press QC. Scan test stripe lot no.	5. 6.	Enter Patient Id (1), press Accept. Insert test strip into meter, touch tin of strip to nt blood
4.	QC bottles expire <u>at 3 months</u> once vial opened. Date vial once opened.	7.	Insert test strip into meter, touch drop from QC bottle to tip of strip. QC result within range, press accept.	7.	drop. Do not add second Blood drop. Keep meter flat or tilted downward. Wait 6 sec. Choose Accept
5.	When testing ,keep meter flat. Remove test stripe before accepting results. Tilting meter up may result in fluid entering and damaging the meter	8.	Complete Qc with both Qc bottles (Low and High)	8.	or reject test results. Meter range allow low-0.5 , high-33mmol/I.

M. Ash CRN ICMS Nov5/10



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APPENDIX B:

Running a Linearity Test

- 1. From the Patient Test screen, press Menu.
- 2. From the Menu screen, press Linearity.
- 3. The Enter Strip Lot screen displays. Enter the Strip Lot Number or scan the barcode.
- 4. Press Accept if the lot number is correct.
- 5. The Enter Linearity Lot screen displays. Enter the Linearity lot number, select from the Linearity Lot List screen (press the List button), or scan the barcode.
- 6. Press Accept if the lot number is correct.
- 7. The Insert Strip screen displays. Insert a Test Strip as shown on the screen.
- 8. With the test strip correctly inserted, the Apply Sample screen displays.
- 9. Gently mix the StatStrip Linearity Solution before each use.
- 10. Discard the first drop of linearity solution from the bottle to avoid contamination.
- 11. Place a drop of linearity solution from the bottle at the end of the test strip until the solution is drawn into the well of the test strip. When enough sample has been drawn into the strip, an audible beep is sounded by the meter.
- 12. Recap the linearity solution. The Testing Sample screen displays. The screen shows a clock with seconds remaining below the clock.
- 13. When the meter completes the test, the Linearity Result screen displays with the results.
- 14. Document the result on the Linearity Check & Meter validation Data Log.
- 15. Remove the strip manually or use the ejector button on the back of the meter to eject the strip directly into a biohazard container.