Department of Pathology and Laboratory Medicine
Capital District Health Authority
Nova Scotia

TITLE: iSTAT1 Analyzer configuration Job Aid	**Doc #:** 13961
Section: \\Management System\PLM\Point of Care Testing\Multi Test Analyzer\	**Version:** 2.0 Current
Document Owner: Trifacility Supervisor	**Effective Date:** 7/18/2013
Final Approval: Dr Bassam Nassar	

1.   Analyzer

Option	Description	Choices i-STAT1	Default0	ESMH
Page 1				
1- **Language**	Select a language for text	English, Japanese, Deutsch, Italiano, Nederlands, Espanol, Francais, Svensk or Portugueses	English	**English**
2- **Date Format**	For Clock Set function	mm/dd/yy dd/mm/yy	mm/dd/yy	**dd/mm/yy**
3- **Sound**	Optional beep when results or Quality Check are displayed	Disabled or Enabled	Enabled	**Enabled**
4- **Auto-transmit**	Analyzer automatically transmits results when placed in a Downloader	Disabled or Enabled	Enabled	**Disabled**
5- **Memory Full**	What will happen when analyzer's memory contains 5000 unsent results	Allow Test, Warn User or Lock Out	Allow Test	**Allow Test**
Page 2				
1-Batch Mode Timeout	Not active at this time			
2- **Inactivity Timeout**	Number of seconds after results are displayed and there is no operator intervention that analyzer will turn off	45 to 1620 seconds	<u>120 seconds</u>	**240 sec**
3- **Upload Schedule**	Time interval between uploads from analyzer to CDS Schedule Options if time interval exceeded	Disabled or Enabled with a specified time interval in hours from 1 to 65535 Allow Test, Warn User or Lock Out	Disabled	❑ **Disabled**
4-PCx Glucose Strip	Enables the PCx glucose test strip reader	Disabled or Enabled	Disabled	**Disabled**

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5-**Clock Password**	Password protection for the Set Clock function	Disabled or Enabled	Enabled	**Enabled**
Page 3				
1-Sync Clock	This will synchronize or update the real time clock in the analyzer to the CDS's clock at the time or each download. This option will eliminate the need to reset the analyzer's clock at the the beginning and end of Daylight Savings time.	Disabled or Enabled		**Disabled**

2. *ID Entry (Operator ID)*

Option	Description	Choices i-STAT1	Default0	ESMH
1- Operator ID				
1- **Minimum Length**	Minimum allowed ID length	Minimum = 0	0 digits	**0 digits**
2- **Maximum Length**	Maximum allowed ID length	Maximum = 15	Maximum = 15	**Maximum = 15**
3- **Repeat ID**	Analyzer can prompt for repeat entry of operator ID. This option can be enhanced by requiring the operator to repeat a manual or scanned entry	Disabled or Enabled Repeat Manual Entry Repeat Scanned Entry	Enabled	**Disabled**
4- **Manual Entry**	A check digit algorithm can be applied to manually entered operator and /or patient IDs	No Check Digit, Modulus 11 Check Digit or Modulus 10 Check Digit	No Check Digit	**No Check Digit**
5- **Code I2 of 5**	Type of a valid barcode format for both the operator and patient ID numbers	Disabled or Enabled No Check Digit, USS or OPCC	Enabled USS	**Enabled USS**
Page 2				
1- **Code 128**	Type of a valid barcode format for both the operator and patient ID numbers	Disabled or Enabled	Enabled	**Enabled**
2- **EAN-8,**	Type of a valid barcode	Disabled or Enabled	Enabled	**Enabled**

Option	Description	Choices i-STAT1	Default0	ESMH
EAN-13	format for both the operator and patient ID numbers			
3- **Codabar**	Type of a valid barcode format for both the operator and patient ID numbers	Disabled or Enabled	Enabled	**Enabled**
4- **Code 93**	Type of a valid barcode format for both the operator and patient ID numbers	Disabled or Enabled	Enabled	**Enabled**
5- **Code 39**	Type of a valid barcode format for both the operator and patient ID numbers	Disabled or Enabled Alphanumeric or Full ASCII	Enabled Full ASCII	**Enabled** **Full ASCII**
Page 3				
1- **Code 39 Check Digit**	Type of a valid barcode format for both the operator and patient ID numbers	Disabled or Enabled	Enabled	**Disabled**
2- **Truncate First**	User can select how to truncate digits from a scanned operator and/or patient ID	Enter number of leading characters to be stripped from the barcode.	0 Digits	**0 Digits**
3- **Truncate Last**	User can select how to truncate digits from a scanned operator and/or patient ID	Enter number of trailing characters to be stripped from the barcode.	0 Digits	**0 Digits**
4-**Print ID**	This option enables/disables printing of operator IDs on printouts from the Martel Printer. Disabling the printing of operator IDs can prevent uncertified operators from learning the IDs of certified operators.			**Enabled**

2. *ID Entry (Patient ID)*

Option	Description	Choices i-STAT1	Default0	ESMH
2- Patient ID				
1- **Minimum Length**	Minimum allowed ID length	Minimum = 0	0 digits	**0 digits**
2- **Maximum Length**	Maximum allowed ID length	Maximum = 15	Maximum = 15	**Maximum = 15**
3- **Repeat ID**	Analyzer can prompt for repeat entry of operator ID	Disabled or Enabled	Enabled	**Disabled**
4- **ID Recall**	Operator can recall last patient ID when analyzer prompts for patient ID	Disabled or Enabled	Enabled	**Enabled**
5- **Manual Entry**	A check digit algorithm can be applied to manually entered operator and /or patient IDs	No Check Digit, Modulus 11 Check Digit or Modulus 10 Check Digit	No Check Digit	**No Check Digit**
Page 2				
1- **Code I2 of 5**	Type of a valid barcode format for both the operator and patient ID numbers	Disabled or Enabled No Check Digit, USS or OPCC	Enabled USS	**Enabled USS**
2- **Code 128**	Type of a valid barcode format for both the operator and patient ID numbers	Disabled or Enabled	Enabled	**Enabled**
3- **EAN-8, EAN-13**	Type of a valid barcode format for both the operator and patient ID numbers	Disabled or Enabled	Enabled	**Enabled**
4- **Codabar**	Type of a valid barcode format for both the operator and patient ID numbers	Disabled or Enabled	Enabled	**Enabled**
5- **Code 93**	Type of a valid barcode format for both the operator and patient ID numbers	Disabled or Enabled	Enabled	**Enabled**
Page 3				
1- **Code 39**	Type of a valid barcode format for both the operator and patient ID numbers	Disabled or Enabled Alphanumeric or Full ASCII	Enabled Full ASCII	**Enabled Full ASCII**
2- **Code 39**	Type of a valid barcode	Disabled or Enabled	Enabled	**Disabled**

Option	Description	Choices i-STAT1	Default0	ESMH
Check Digit	format for both the operator and patient ID numbers			
3- **Truncate First**	User can select how to truncate digits from a scanned operator and/or patient ID	Enter number of leading characters to be stripped from the barcode.	0 Digits	**0 Digits**
4- **Truncate Last**	User can select how to truncate digits from a scanned operator and/or patient ID	Enter number of trailing characters to be stripped from the barcode.	0 Digits	**0 Digits**

3.   Patient Tests

Option	Description	Choices i-STAT1	Default0	ESMH
1- **Cartridge Auto-Chart**	If enabled, the Chart page is displayed automatically when testing a cartridge and/or strip.	Disabled Enabled	Disabled	**Disabled**
2- **Cartridge Information**	If "Required information before running cartridge" is required, the operator must enter the operator and patient IDs before the analyzer will initiate a cartridge test cycle.	Not Required Required	Not Required	**Required**
3- **Cartridge Barcode**		Not Required Required		**Required**
4- **Cartridge Lot Number**	If "Enter Lot Number" is required, the cartridge lot number must be entered before the analyzer will initiate a cartridge test cycle.	Not Required Required	Not Required	**Required**
5- **Comment Code In Range**	If required, the analyzer will prompt for a 1 to 3 character comment code after results for patient samples are displayed.	Disabled Optional Required	Disabled	**Disabled**
5- **Comment Code Out of** Range	If required, the analyzer will prompt for a 1 to 3 character comment code after results for patient	Disabled Optional Required	Disabled	**Disabled**

Option	Description	Choices i-STAT1	Default0	ESMH
	samples are displayed.			
Result Output				**Disabled**
Downloade r Lockout				**Disabled**

1. QC Tests

Option	Description	Choices i-STAT1	Default0	ESMH
1-**External Simulator**	Time interval when a prompt for operator to use the external simulator should appear.	1- Disabled 2- Interval of specified hours (1 to 65535 hours)	Disabled	**Disabled** _744___ hours
2- **Internal Simulator**	Time interval when the internal Electronic Simulator test will be run.	1- Disabled 2- 8/24 Hours (every 8 hours for blood gases and hematocrit and every 24 hours for other tests.) 3- Interval of specified hours (1 to 65535 hours) 4- Patient Tests -interval of specified number of patient tests	Interval 24 hours	**8/24 Hours**
3- **Internal Simulator Schedule Option**	Schedule for control options. The behavior of the analyzer if the simulator test fails can also be specified. If the Schedule Option Lockout is selected, the analyzer will continue to perform the simulator test and will continue to display "FAIL" on subsequent cartridges until the test passes. If Lockout is not selected, the simulator test will not be initiated again until next scheduled time.	Allow Test or Lock Out	Lock Out	**Lock Out**

5.   Results

Note: Reference Ranges for pH, PC02, P02, lactate, and associated calculated results are venous ranges.

Option	Description		Choices i-STAT1	Default0	ESMH
1- Units and Ranges	Analyte Enabled or Disabled. When enabled, select reporting units for results.		Each test can be disabled. If disabled, the test will not appear on the results page and test results will not be stored.Select Units for analytes		
Analyte	**Disabled** ✓	**Reference Range**	**Disabled or Enabled Unit Set**	**All tests enabled**	
1- **Cl**		98 / 109	mmol/L or mEq/L	mmol/L	
2- **K**		3.5 / 4.9	mmol/L or mEq/L	mmol/L	**mmol/L**
3- **Na**		138 / 146	mmol/L or mEq/L	mmol/L	**mmol/L**
4- BUN **UREA**		8 / 26 17 / 56	1- BUN 2- UREA- **mmol/L**, mg/dL or g/L	BUN mg/dL	**Disabled** UREA- mmol/L
5- **iCa**		1.12 / 1.32	mmol/L or mEq/L or mg/dl	mmol/L	**mmol/L**
Page 2					
1- pH		7.310 / 7.410	Not expressed in units	N/A	Disabled
2- Glu		70 / 105	mmol, mg/dL or g/L	mg/dL	**mmol**
3- TCO2		24 / 29	mmol/L or mEq/L	mmol/L	**mmol/L**
4- AnGap		10 / 20	mmol/L or mEq/L	mmol/L	Disabled
5- PO2		80 / 105	kPa or mmHg	mmHg	Disabled
Page 3					
1- PCO2		41.0 / 51.0	kPa or mmHg	mmHg	Disabled
2- BE		-2 / 3	mmol/L or mEq/L	mmol/L	Disabled
3- HCO3		23 / 28	mmol/L or mEq/L	mmol/L	Disabled
4- sO2		95 / 98	% or None	%	Disabled
5- Hb		12 / 17	mmol/L, g/dL or g/L	g/dL	

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Page 4					
1- Hct		38 / 51	None or %PCV	%PCV	**None**
2- Lac		0.36 / 1.25	mmol/L, mg/dL or g/L	mmol/L	**Disabled**
3- **Crea**		0.6 / 1.3	mg/dL or umol/L	mg/dL	**umol/L**
4- ACT		79 / 149	Expressed only as WBT sec	WBT sec	**Disabled**
5-INR			Reference Value		**Reference Value**
6-cTnI			ng/ml		Disabled
2- Options					
1- Decimal Separator		Select comma (,) or period (.)	Comma or period	(.) Period	**(.) Period**
2- Test Selection		Requires the operator to select tests to be reported from a cartridge test panel.	Disabled or Enabled	Disabled	**Disabled**
3- Hematocrit		CPB options. Prompt or no prompt for CPB compensation when cartridge includes hematocrit sensor, and if no prompt, automatically Adjust or Do not adjust.	Prompt CPB, CPB Always or CPB Never K3 EDTA or K2EDTA/Heparin/None. (NaEDTA is included in this option and None means no anticoagulant.)	Prompt CPB K3 EDTA	❑ **Prompt CPB** ❑ **K3 EDTA** ❑ K2 EDTA ❑ CPB Always ❑ K3 EDTA ❑ K2 EDTA

Option	Description		Choices i-STAT1	Default0	ESMH
		Reference anticoagulant used to calculate hematocrit result.			❑ CPB Never ❑ K3 EDTA ❑ K2 EDTA
Base Excess Calculation		Select Base Excess of Extracellular Fluid (BEecf) or Base Excess of Blood (BEb).	ecf or blood	ecf	**ecf**
ACT-C	Will allow results to run with Prewarm or Nonwarm mode	Prewarm (37)or Nonwarm (ambient temp)	Prewrm or Non-Prewrm	Prewrm	Disabled
ACT-K	Will allow results to run with Prewarm or Nonwarm mode	Prewarm(37) or Nonwarm (ambient temp)	Prewrm or Non-Prewrm	Prewrm	Disabled
Print Reference Ranges		Reference ranges can be printed with results	Disabled or Enabled	Disabled	**Disabled**

6. *Password*

Option	Description	Choices i-STAT1	Default0	ESMH
Password	For Clock Set, Change customization, and Utility functions protection	0-5 digits	No password	**enter**

7. *Restore Factory Settings*

Option	Description	Choices i-STAT1	Default0	ESMH
Restore Factory Settings	The customization profile can be reset to factory settings. DEFAULT0 indicates that the analyzer has factory settings. If the default is changed on the analyzer, the profile is listed as 00000000.	Yes or No	Analyzer is shipped with factory settings	**no**