Name: _____

M#: _____   Operator ID #: _____

RALS ☐ _____
DB   ☐ _____
HS   ☐ _____

BASSETT HEALTHCARE NETWORK
i-STAT Training/Competency Checklist

Trainer
Initials

1. Identifies the components of the i-STAT system – wireless versus non-wireless; rechargeable versus 9V lithium batteries. The written procedure can be found on the Lab web page (b*Net>Laboratory Manual>Point of Care>Point of Care Document Center Procedures).   _____

2. Order process – Beaker order codes RT85 arterial line, RT43 arterial puncture, POC215 other.   _____

3. Sample collection (non-anticoagulated, anticoagulated, fingerstick) and heparinized sample stability is 30 minutes room temperature/no ice. Mix well before testing.   _____

4. Moderately Complex sample-Heparinized or non-Heparinized for EG7+ [CORD, ART, VEN, CAP, Mixed Venous] & Blood Gas only CG4+ [ART&VEN only], PT/ACT-Unheparinized. Creatinine Waived for VENOUS whole blood only collected in Lithium heparinized vacutainer only and transferred with pipet or syringe.   _____

5. Properly fills, closes the cartridge and inserts cartridge into analyzer.   Cartridge must be used immediately after opening package. Do not use beyond RT or Mfg outdate. Do not re-refrigerate.   _____

6. Entry of REQUIRED data: operator ID, patient CSN number (wristband – blue with white MIB; other colors with white – affiliates), test selection and sample type.   _____

7. Entry of OPTIONAL data for blood gas only - patient temperature in degrees Celsius only and patient FIO_2.   _____

8. Analysis time. Analyzer on a vibration free surface. Review results. Electrolytes, hematocrit shown in values and tick marks. ↑↓ - critical value. Errors in sampling or misidentified patients are corrected in the LIS by the POC Staff X 6728.   _____

9. Limitations: Creatinine interference – Hydroxyurea. Absurd values will not cross to patient's chart (Na <110 mmol/L and >175 mmol/L, K <2.0 mmol/L and >7.0 mmol/L).   _____

10. Critical value comment code "1" documentation. Document C.V. communication in the EMR.   _____

11. Scroll to #1 Test Options to view "**Remove Cartridge**" icon. Enter #1 to remove cartridge.   _____

12. Review starout (***) results – repeat entire test selection. Results with greater than (>) or less than(<) test results will go into EPIC.   _____

13. Describe liquid QC and proficiency procedure. Describe internal simulator QC. Describe external simulator QC.   _____

14. Demonstrate data transferring data through docking in the downloader. Demonstrate printing results.   _____

15. Supply handling & storage and room temperature outdates.   _____

16. Care of the system. Clean after each patient with Clorox Germicidal Wipes. Troubleshooting (refer to procedure manual) or obtain a loaner iSTAT.   _____

17. Safety and universal precautions.   _____

18. Operator must be competency assessed at the time of training, at the 6 month mark and at the one year mark. Additional competency requirements are required annually on the anniversary of training. Competency is satisfied by passing a Healthstream exam (> or = 80%) and a direct observation.

_____   _____
Trainer Signature, Title   **Testing Location**

_____   _____
Employee Signature, Title   **Date**

"I have read the above competency assessment. I understand that by signing this statement I agree that I have been trained in the areas noted in this assessment and I am approved to perform the tests/procedures independently. I also feel competent to perform this list of tests/procedures/processes independently as indicated by the above assessment."

Name/Title: _____   Score_____

True/False (for i-STAT1 analyzer and system components)

_____ 1. Universal Precautions must be used when collecting blood samples, testing and disposing.

_____ 2. Cartridges stored at room temp beyond the room temp outdate may be used for testing or returned to the refrigerator.

_____ 3. The cartridge may not be removed until the prompt #1 "TEST OPTIONS" is displayed. Enter #1 to view "**REMOVE CARTRIDGE"** and discard cartridge in red bucket.

_____ 4. The i-STAT 1 analyzer tests venous, arterial, cord blood, capillary samples and mixed venous for EG7+. The CG4+ is only approved for arterial and venous blood only.

_____ 5. When testing at the bedside, it is still necessary to check for a test order and the patient's ID # before performing a test.

_____ 6. The chamber in the cartridge should be filled to the fill mark without spilling over the sample well.

_____ 7. Sample collected in heparin for blood gas may be held at room temperature for up to 30 minutes. Mix well before testing.

_____ 8. A specimen result is a starout (***) and should be redrawn (If necessary) and repeated on the i-STAT for all tests.

_____ 9. When entering the patient temperature, only enter if testing a blood gas and enter the patient temperature in Celsius only.

_____ 10. Urines and body fluids may be run on the i-STAT for Point of Care testing.

_____ 11. When a critical value is obtained: no repeats are required. The comment code "1" is entered into the i-STAT analyzer and the critical value is reported to the provider within 30 minutes. Document communication of critical value in the patient's EMR.

_____ 12. The cartridge room temperature outdate is dependent on the type of cartridge. The expiration Information is displayed on each box and each individual package.

_____ 13. During analysis, the i-STAT must remain on a solid surface free from vibration until the testing is complete.

_____ 14. Once the i-STAT cartridge package is opened, you must use the cartridge immediately.

_____ 15. Samples for all i-STAT ACT must be drawn in a non-heparinized syringe. Samples for PT/INR are collected by direct fingerstick.or non-heparinized syringe. Samples for the CG4+ are an ARTERIAL or VENOUS sample only and samples for EG7+are ART, VEN, CORD, Capillary , Mixed Venous. CG4+ and EG7+ both may be collected in non-heparinized or heparinized syringe or green vacutainer.(Heparinized is preferred)

_____ 16. The Quality Controls are completed before each lot is distributed for use and monthly while in use. Istat Operators must run a QC or proficiency sample initially, at 6 months and annually to maintain competency.

_____ 17. The patient ID for the i-STAT is the CSN number which can be scanned from the blue and white wristband or manually entered with the 9 digit CSN.

_____ 18. Fill the cartridge holding the syringe at a 45° angle slowly and steadily avoiding bubbles. Close the cartridge door by grasping the side of the cartridge before placing the cartridge in the analyzer. Do not overfill or underfill.

_____ 19. Cleaning the exterior of the i-STAT is not recommended.

_____ 20. The i-STAT will analyze any sample. However, the interface will prevent results from a diluted sample from going to the patient's chart. An example of an absurd value is a potassium < 2.0 mmol/L.