

i-STAT – Blood Gas Quality Assurance Program

Frequency

2 vials are processed each time as per schedule.

Materials Required

1. 2 QAP Blood Gas vials (as per schedule)
2. 2 x CG4+ & Chem8 cartridges
3. 2 x 1mL plain syringes
4. PPE- e.g. Gloves



Preparing QAP Materials

- a. QAP vials should be allowed to stand at room temperature for at least 1 hour prior to testing.
- b. CG4+ & Chem8 cartridges should be allowed to stand at room temperature for ~5 minutes prior to testing.

Running QAP

- a. Remove the i-STAT from DRC (cradle) and place on a flat surface.
- b. Turn the device on by pressing the power button.
- c. From the Test Menu select:
 - i. 2 – iSTAT cartridge
 - ii. Scan or enter Operator ID
 - iii. Select one of the two samples. Scan the barcode attached to that QAP vial as the patient ID.
 - iv. Scan cartridge barcode (CG4+ must be performed first, followed by Chem8 for both samples).



From **Insert Cartridge** screen, you have 15 minutes to insert your loaded cartridge.

- d. Carefully dispense cartridge onto clean flat surface taking care to only hold by the sides.
- e. **Vigorously** shake the QAP vial (until a foam layer appears).
- f. Snap the top off the QAP vial. **Immediately** insert the luer end of a 1ml plain syringe into the opening, invert and withdraw fluid.
- g. Without delay dispense QAP fluid into the CG4+ cartridge, close the cartridge and insert into the i-STAT analyser.
- h. Results will be displayed after 3 minutes.
- i. While results are displayed, select 1-Test Options and remove cartridge.
- j. Repeat from step g. for CHEM8+ cartridge*.
- k. Sign and date maintenance log to indicate QAP has been performed.
- l. Repeat the process for the second QAP sample.

QAP samples require both CG4+ and Chem8 cartridges to be tested, the same QAP vial is to be used for both cartridges (perform Chem8 cartridge within 15 minutes of first testing CG4+ cartridge).

*To test the next cartridge for the same QAP vial, select “Same patient” and follow above instructions. If testing new QAP vial select “Next patient”. Otherwise return to your Test Menu.

When testing completed, return i-STAT to dock.