

## **NTEC POCT Blood Gases and pH Quality Assurance Programme**

Dear POCT Coordinators, DOM, WM,

I would be very grateful if you can ask your staff (who used to perform POCT blood gases and pH analysis in the clinical wards) to perform the analysis of this quality control (QC) sample, complete Sections I & II of the attached reporting form, and then fax the completed form according to the fax number on the form within 2 days of sample arrival. This external quality assurance programme will be conducted at monthly interval throughout the calendar year as required by the HAHO Annual Plan Section III Standard 16 on POCT.

### **QC Sample**

One ampoule of QC material will be received each month. Each bag contains 1 vial of 2.5 mL of QC material in glass ampoule, 1 disposable pipette, this instruction note, and 1 reporting form. Please analyse the QC material using the POCT blood gases and pH analyser in your ward. Please scan the attached HN number as if you are performing a patient test.

### **Analytical Procedures**

1. Start your i-STAT as usual (scan your operator ID barcode and attached HN number as patient HN).
2. Invert gently the ampoule ten times to achieve homogenisation.
3. Tap the liquid back into the base of the ampoule.
4. Carefully snap open the ampoule. (To avoid cuts, protect your fingers.)
5. Use the plastic pipette provided, transfer adequate sample into a cartridge. (Sampling must take place within 2 min of opening the ampoule.)
6. Proceed the rest of steps as usual.
7. Discard the sharp properly.
8. Attach the result printout or transcribe the result and QC cycle number onto the reporting form with your operator CMS code, and model of cartridge used.
9. Please complete analysis and return completed form within 2 days.
10. *Fax to: 2144 1796 c/o Ms Candy Cheung (For AHNH users)*
11. *Fax to: 2683 8152 c/o Mr Daniel Leung (For NDH users)*

### **Precautions**

The QC material provided is a buffered bicarbonate solution containing Na<sup>+</sup>, K<sup>+</sup>, Ca<sup>++</sup>, Cl<sup>-</sup>, carbon dioxide, oxygen, nitrogen, glucose, lactate, and dyes. It shall be stored at room temperature (18 – 25 °C) and shall be aimed for in vitro diagnostic use only.

If you have any query, please contact Ms Candy Cheung at 2689 2654 (AHNH) or Mr Daniel Leung at 2683 8157 (NDH).

Thank you for your cooperation.

Dr Michael HM Chan

Chairman, NTE Cluster POCT Coordinating Committee



# NTEC Chemical Pathology

## Point-of-Care Testing Blood Gases and pH

### Quality Assurance Programme Report Form

#### Section I



Sample Number: **POCT patient barcode** Cycle Number: \_\_\_\_\_ Date: \_\_\_\_\_

Hospital (please tick):

PWH

NDH

AHNH

Ward Location: \_\_\_\_\_

#### Section II

Analyser (please tick)

i-STAT 1

Cartridge used:  EG7+

E3+

Others: \_\_\_\_\_

Others equipment: please specify \_\_\_\_\_

Result: Please affix a printout or transcribe the results here.

pH		
pCO <sub>2</sub>		kPa
pO <sub>2</sub>		kPa
HCO <sub>3</sub>		mmol/L
BE		mmol/L
Sat O <sub>2</sub>		%
Na		mmol/L
K		mmol/L
TCO <sub>2</sub>		mmol/L
iCa		mmol/L
Hct		%PCV
Hb		g/L

Your CMS code: \_\_\_\_\_

Note:

1. The material provided is a buffered bicarbonate solution containing Na<sup>+</sup>, K<sup>+</sup>, Ca<sup>++</sup>, Cl<sup>-</sup>, carbon dioxide, oxygen, nitrogen, glucose, lactate, and dyes.
2. Store QC sample at room temperature until analysis.
3. Invert ampoule ten times gently to achieve homogenisation.
4. Tap the liquid back into the base of the ampoule.
5. Carefully snap open the ampoule. (To avoid cuts, protect your fingers.)
6. Use the plastic pipette provided, transfer adequate sample into a cartridge. (Sampling must take place within 2 min of opening the ampoule.)
7. Scan dummy patient barcode on the top of this sheet as if you are doing a patient sample.
8. Proceed the rest of steps in the usual way.
9. Discard the sharp properly.
10. Please complete analysis and return completed form within 2 days.
11. Fax to: 2144 1796 c/o Ms Candy Cheung (For AHNH users)
12. Fax to: 2683 8152 c/o Mr Daniel Leung (For NDH users)

Please fill in ink. Any Correction made should be crossed and signed.

Doc last modified: Aug 2005 (v1)