

Laboratory Bulletin

Date: February 19, 2014

To: Central Zone – Rural Acute Care Hospitals (excluding Red Deer Regional Hospital Centre)

Physicians, Nurse Managers, Educators and Practitioners, and Laboratory Staff

From: AHS Laboratory Services - Central Zone

Re: Capillary Blood Gas Testing: Collection and Analysis

PLEASE POST OR DISTRIBUTE AS WIDELY AS APPROPRIATE

Key Messages:

- Laboratory staff in Central Zone <u>do not</u> collect and/or perform capillary blood gas analysis. Performing these collections without adequate training could adversely affect sample integrity and cause erroneous test results, putting the patient at risk.
- Supplies for capillary blood gas collection are not stocked in Central Zone rural laboratories.
- Capillary blood gas testing is to be performed only by staff that are trained to collect/analyze these samples and who regularly perform these collections.

Action Required:

 If there is a request for a capillary blood gas result prior to patient transport, for example by NICU or STARS Air Ambulance, the local physician or STARS Air Ambulance staff <u>must</u> adhere to the following if they will collect and analyze the sample:

> Collection from the patient

- The individual is trained to collect capillary blood gas samples.
- The individual provides the required supplies for the collection, e.g. blood gas capillary collection tube.

Analysis using the laboratory i-STAT

- The individual is trained to use the i-STAT with a capillary collection tube (note: laboratory staff are not trained to do this).
- The laboratory can provide the G3 cartridge and the i-STAT analyzer.
- Assurance of appropriate training is the responsibility of the individual performing the collection/analysis and the individual's supervisor/department lead.

Inquiries and feedback may be directed to:

- Dr. Allison Venner, Clinical Biochemist, Central Zone, at 403-406-5633 or email: allison.venner@albertahealthservices.ca
- Pathologist On-Call, Central Zone, at 403-304-1351 if assistance is required "off hours".

This bulletin has been reviewed and approved by:

Dr. James Wesenberg, AHS Provincial Medical / Scientific Director, Laboratory Services