ALBERTA PRECISION LABORATORIES

Leaders in Laboratory Medicine

Date:	January 25, 2021	
To:	: Central Zone Physicians, Laboratory Directors, Managers and Supervisors	
From:	Clinical Biochemistry, SouthSector, Alberta Precision Laboratories (APL)	
Re:	Changes in certain reference intervals, test menu, and reportable ranges in rural Cen Zone	

PLEASE POST OR DISTRIBUTE AS WIDELY AS APPROPRIATE

Key Message:

- The newest generation of Ortho Vitros XT 3400 (dry chemistry) analyzers will be implemented in rural Central zone hospital labs to replace the Siemens Dimension EXL (wet chemistry) analyzers.
- The following changes to reference intervals, test menu, and reportable ranges will occur with this equipment replacement:

Reference intervals

- Acetaminophen, Albumin, Neonatal Bilirubin, Direct Bilirubin, Calcium, Creatine Kinase (CK), Ethanol, Lipase, Salicylate and Urate reference intervals will be updated on patient reports.
- A temporary comment will be attached to all results obtained on the Ortho Vitros XT 3400 analyzers for 6 months from the go-live date: "This result is generated by Vitros dry chemistry. Results from different methodologies may not be used for trending; interpret results accordingly."
- Troponin testing will be moved to Abbott iSTAT once Siemens Dimension EXL is discontinued. Neither iSTAT nor Dimension EXL troponin is a high sensitivity method and this change does not affect the current acute coronary syndrome (ACS) management protocols adopted in the Central Zone:

Analyte	Old reference interval	New reference interval
Troponin	0.06 ug/L	0.1 ug/L

Test menu changes

- Digoxin and Lipid Panel at Drumheller, and Digoxin, Lipid Panel and Phenytoin testing at Wetaskiwin will be discontinued on-site and will be referred to the Red Deer Regional Hospital.
- STAT requests for digoxin and phenytoin will remain available when urgently required for acute clinical management.

Reportable ranges

Lower and upper reportable limits of certain analytes will be affected. Please contact your local laboratory with any questions.

Why this is Important:

- Implementation of new chemistry equipment in rural Central Zone will affect certain reference intervals, test menus, and reportable ranges.
- This is due to the provincial standardization of general chemistry platforms in rural hospital labs.

ALBERTA PRECISION LABORATORIES

Leaders in Laboratory Medicine

Action Required:

- Please be aware of these changes with implementation of the new chemistry analyzers.
- It is recommended to establish a new baseline for all analytes, even if the reference intervals remains the same.
- Memorandum for each rural site will be distributed in the coming weeks with the exact go-live dates of implementation.

Inquiries and feedback may be directed to:

• Yury Butorin, PhD, Clinical Biochemist, Red Deer Regional Hospital, 403-406-5633, Yury.Butorin@albertaprecisionlabs.ca

This bulletin has been reviewed and approved by:

- Heidi Paulin, MD, Regional Lab Medical Site Chief, Red Deer Regional Hospital
- Hossein Sadrzadeh, PhD, Section Chief, Clinical Biochemistry, South Sector
- Leland Baskin, MD, Associate Medical Director, South Sector