

Leaders in Laboratory Medicine

Laboratory Bulletin

Date: June 15, 2020

To: South Zone Physicians, Nursing Staff, Pharmacy Staff, and Laboratory Staff From: Clinical Biochemistry, South Sector, Alberta Precision Laboratories (APL)

Re: Changes to Reference Intervals of Magnesium and Urea

PLEASE POST OR DISTRIBUTE AS WIDELY AS APPROPRIATE

Key Message:

• Effective **June 16, 2020**, reference intervals for Urea and Magnesium will be updated to reflect the new provincial standardized reference intervals:

Analyte	Age	Reference Interval	Units	Gender	Critical Value(s)
Managarium	0 450	0.7 4.00		N4 E 11	.0.40.94.00
Magnesium	0 – 150 years	0.7 – 1.00	mmol/L	M, F, U	< 0.40 & >1.90
					21/2
Urea	< 2 years	1.0 – 7.5	mmol/L	M, F, U	N/A
	2 – 17 years	2.0 - 7.0	mmol/L	M, F, U	N/A
	18 – 55 years	2.0 - 7.0	mmol/L	F	N/A
	18 – 55 years	3.0 - 8.0	mmol/L	M, U	N/A
	> 55 years	3.0 - 8.0	mmol/L	F	N/A
	> 55 years	3.0 - 9.0	mmol/L	M, U	N/A

These changes will be reflected in the Lab Information System (LIS).

Why this is Important:

 New provincial reference intervals are evidence-based and have been developed based on the statistics obtained from the Albertan population.

Action Required:

Please be aware of the changes in reference intervals.

Inquiries and feedback may be directed to:

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- Dr. Dennis Orton, Clinical Biochemist, APL South Sector Chinook Regional Hospital, 403-770-3219, dennis.orton@aplabs.ca

This bulletin has been reviewed and approved by:

- Dr. Michael Greeff, Regional Laboratory Medicine Site Chief, Chinook Regional Hospital
- Dr. Julio Silva, regional Laboratory Medicine Site Chief, Medicine Hat Regional Hospital
- Dr. Hossein Sadrzadeh, Section Chief, Clinical Biochemistry, APL South Sector
- Dr. Leland Baskin, Associate Medical Director, APL South Sector