

Laboratory Bulletin

Leaders in Laboratory Medicine

Date: December 28, 2020

To: North Sector Area 1, 2, 3 and QEII Physicians, Laboratory Directors, Managers and

Supervisors

From: North Sector, Alberta Precision Laboratories (APL)

Re: Changes to Reference Intervals of Alanine Aminotransferase, Gamma

Glutamyl Transferase, Magnesium and Urea

PLEASE POST OR DISTRIBUTE AS WIDELY AS APPROPRIATE

Key Message:

- Effective **11 January 2021**, reference intervals for the following analytes will be updated to reflect the new provincial reference intervals (table attached):
 - Alanine Aminotransferase
 - Gamma Glutamyl Transferase
 - Magnesium
 - o Urea

Why this is Important:

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

Action Required:

Please be aware of the changes in reference intervals.

Inquiries and feedback may be directed to:

- Dr. Mireille Kattar, Consulting Pathologist, Alberta Precision Laboratories (APL), Mireille.Kattar@albertaprecisionlabs.ca
- Dr. Brent Mendez, Regional Lab Medicine Site Chief QEII Hospital at 780-538-7417 or by email at: Brent.mendez@albertaprecisionlabs.ca

This bulletin has been reviewed and approved by:

 Dr. Michael Mengel, North Sector Medical Director, APL Chair Department of Laboratory Medicine and Pathology, University of Alberta



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		Reference r		r r Critical	
Analyte	Age	Interval	Units	Gender	Value
Alanine Aminotransferase (ALT)	0 - < 18 years	< 35	U/L	M, F& U	None
	≥ 18 years	< 60	U/L	M, U	None
	≥ 18 years	< 40	U/L	F	None
Gamma Glutamyl Transferase (GGT)	0 - < 15 days	20 - 200	U/L	M, F, U	None
	15d-<1years	< 100	U/L	M, F, U	None
	1 yr - < 18 years	< 27	U/L	M, F, U	None
	18 - 150 years	< 50	U/L	F	None
	18 - 150 years	< 80	U/L	M, U	None
Magnesium (Mg)	0 - 150 years	0.70 - 1.00	mmol/L	M, F & U	[<0.40 & >1.90
Urea	< 2 years	1.0 - 7.5	mmol/L	M, F, U	None
	2 - 17 years	2.0 - 7.0	mmol/L	M, F, U	None
	18 - 55 years	2.0 - 7.0	mmol/L	F	None
	18 - 55 years	3.0 - 8.0	mmol/L	M,U	None
	> 55 years	3.0 - 8.0	mmol/L	F	None
	> 55 years	3.0 - 9.0	mmol/L	M,U	None