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**Date:** November 4, 2019  
**To:** South Zone Physicians, Laboratory Directors, Managers, and Supervisors  
**From:** Clinical Biochemistry, APL South Sector  
**Re:** Changes to Reference Intervals for ALT, Vitamin B12, Ferritin, GGT

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**Key Message:**

- Effective **November 5, 2019**, serum and plasma reference intervals for the following analytes will be updated to reflect the new provincial reference intervals (table attached):
  - ALT
  - Vitamin B12 (at Medicine Hat Regional Hospital only)
  - Ferritin
  - GGT

**Why this is Important:**

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

**Action Required:**

- Please be aware of the changes in reference intervals.

**Background:**

- The change in reference intervals is a part of standardization of the processes within APL.

**Inquiries and feedback may be directed to:**

***For Medicine Hat Regional Hospital (MHRH) inquiries:***

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Analyte	Age	Reference Interval	Units	Gender
Alanine Aminotransferase (ALT)	0 - < 18 yrs	< 35	U/L	M, F & U
	≥ 18 yrs	< 60	U/L	M
	≥ 18 yrs	< 40	U/L	F
B12	0 - < 10 years	≥ 250	pmol/L	M, F, U
	10 – 150 years	≥ 160	pmol/L	M, F, U
Ferritin	0 - < 6 months	50 - 500	ug/L	M, F, U
	6 months - 15 years	15 - 100	ug/L	M, F, U
	> 15 years	20 - 300	ug/L	F
	> 15 years	30 - 500	ug/L	M, U
Gamma Glutamyl Transferase (GGT)	0 - < 15 days	20 - 200	U/L	M, F, U
	15 d - < 1 yr	< 100	U/L	M, F, U
	1 yr - < 18 yrs	< 27	U/L	M, F, U
	18 - 150 yrs	< 50	U/L	F
	18 - 150 yrs	< 80	U/L	M