

**Date:** December 4, 2013

**To:** Central Zone – Former David Thompson Health Region (DTHR)  
Physicians, Nurses and Laboratories

**From:** AHS Laboratory Services

**Re:** Alkaline Phosphatase (ALP) Reference Interval Changes

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**Key Messages:**

- Effective **December 10, 2013**, all laboratories in the former David Thompson Health Region (DTHR) currently performing Alkaline Phosphatase (ALP) testing will implement a new method for ALP testing.
- The new method is traceable to the International Federation of Clinical Chemistry and Laboratory Medicine (IFCC) ALP primary reference method procedure.

The reference intervals for females and males will be changed (lowered) to the following:

Age Range	Sex	New ALP Reference Interval (U/L)
0 - 1 month	Male & Female	90 – 345
1 month - 9 years	Male & Female	160 – 430
9 - 12 years	Male	160 – 525
12 - 14 years	Male	110 – 430
14 - 16 years	Male	80 – 315
16 - 19 years	Male	55 – 150
9 - 11 years	Female	160 – 455
11 - 16 years	Female	160 – 525
16 - 19 years	Female	90 – 225
19 - 50 years	Male & Female	45 – 125
50 - 150 years	Male & Female	55 – 170

**Why this is important:**

- A minimal decrease in patient results will occur with the switch to the revised method. This is reflected in the new reference intervals.
- This new method will provide improved instrument performance and improved correlation of ALP results obtained by the different analyzers across the sites.

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

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**This bulletin has been reviewed and approved by:**

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