



Alkaline Phosphatase (ALP) Reference Interval Update

Pathlab will be updating ALP reference intervals from **18th December 2017**, as will laboratories in the Auckland region and the Waikato DHB laboratory, though these may happen from 4th December. Updating of ALP reference intervals will maintain regional consistency and ensure all tests performed in the Waikato, BOP and Lakes region share the same reference intervals

The ALP assay is unchanged. The change in reference intervals reflect information from the Caliper study (1), recommendations by the Australasian Association of Clinical Biochemists (AACB) (2) and data mining of laboratory results from NZ adults. The “current” and “new” reference intervals for ALP are displayed below for comparison.

Male				Female			
Current		18th December 2017		Current		18th December 2017	
Age	ALP	Age	ALP	Age	ALP	Age	ALP
0-10y	80-350	0 - < 6 M	80 - 600	0-10y	80-350	0 - < 6 M	80 - 600
11-14y	45-400	6 M - < 10y	80 - 450	11-14y	45-300	6 M - < 10y	80 - 450
15-19y	45-200	10 - < 15y	45 - 500	15-19y	45-250	10 - < 13y	45 - 460
20-49y	40-110	15 - < 17y	45 - 380	20-49y	40-100	13 - < 15y	45 - 300
50-59y	40-120	17 - < 19y	45 - 220	50-59y	40-120	15 - < 22y	45 - 150
≥ 60y	40-130	19 - < 22y	45 - 150	≥ 60y	40-130	22 - < 50y	40 - 110
		22 - < 50y	40 - 110			50 - < 60y	40 - 120
		50 - < 60y	40 - 120			≥ 60 y	40 - 130
		≥ 60 y	40 - 130				

References

- 1) Colantonio DA, Kyriakopoulou L, Chan MK, Daly CH, Brinc D, Venner AA, et al. Closing the Gaps in Pediatric Laboratory Reference Intervals: A CALIPER Database of 40 Biochemical Markers in a Healthy and Multiethnic Population of Children. *Clinical Chemistry*. 2012;58(5):854-68.
- 2) Tate JR, Sikaris KA, Jones GR, Yen T, Koerbin G, Ryan J, et al. Harmonising adult and paediatric reference intervals in australia and new zealand: an evidence-based approach for establishing a first panel of chemistry analytes. *Clin Biochem Rev*. 2014;35(4):213-35.

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CLINICAL UPDATE