

Leaders in Laboratory Medicine

Laboratory Bulletin

DATE:	11 August 2025	
TO:	All Zones - All Physicians, Nurses, and Managers	
FROM:	Clinical Biochemistry, Alberta Precision Labs (APL)	
RE:	Standardization of the 1,25 di-hydroxyvitamin D Test on the Liaison Instrument	

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Key Message

- Effective **August 12**, **2025**, the University of Alberta Hospital (UAH) laboratory in Edmonton will transition 1,25 di-hydroxyvitamin D (1,25-diOHvitD) testing to the DiaSorin Liaison instrument.
- There will be provincial standardization of the reference interval for 1,25-diOHvitD.

Background

- Currently, testing for 1,25-diOHvitD is performed by a manual enzyme linked immunosorbent assay (ELISA) method at UAH and performed on an automated instrument (Liaison) at the Diagnostic Scientific Centre (DSC) in Calgary.
- Test volumes for 1,25-diOHvitD continue to grow, which necessitates an automated workflow.
- The UAH and DSC will standardize methodology, and both perform 1,25-diOHvitD blood test on the Liaison instrument, a chemiluminescent immunoassay (CLIA) platform.
- The clinical indications for ordering 1,25diOH vitamin D will continue to include:
 - ✓ Renal disease
 - ✓ Unexplained high parathyroid hormone (PTH) level
 - ✓ Malignancy with hypercalcemia
 - √ Granulomatous disease (ex. Sarcoidosis)
 - ✓ Vitamin D-dependent or -resistant rickets

How this will impact you

- The preferred specimen type is serum (min volume 0.5mL) collected in a GOLD SST or RED SST.
- The method will change from ELISA to CLIA for Edmonton (see re-baselining reporting comment below). No change in testing method for Calgary.
- The expected turnaround time is 2 to 3 weeks.
- Refer to the new provincially standardized CLIA reference interval below for 1,25-diOHvitD.

Method	Reference Interval	Reporting Comment
ELISA (Current)	43-168 pmol/L	None
CLIA (New)	60-210 pmol/L	Testing performed by DiaSorin chemiluminescent
		immunoassay.
		Edmonton: Effective August 12, 2025, this test is being run
		by a different method. Recommend re-baselining known
		patients monitored over time due to difference in results
		and reference interval between ELISA and
		chemiluminescent immunoassay.



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Action Required

- Be aware of the new testing method at UAH, and the provincially standardized reference interval.
- Continue to order the 25 Hydroxyvitamin D test in serum for initial assessment of Vitamin D status.
- Refer to the APL test directory to become familiar with 1,25-diOHvitD testing changes.

Questions/Concerns

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Approved by

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