

<b>DATE:</b>	22 January 2024
<b>TO:</b>	Edmonton, North, and Central Zones – Physicians, Nurses and Healthcare Providers, Lab Staff
<b>FROM:</b>	Clinical Biochemistry, Alberta Precision Labs (APL)
<b>RE:</b>	<b>Temporary Referral of Serum Alpha-1 Antitrypsin Measurement to DSC Chemistry</b>

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## PLEASE POST OR DISTRIBUTE AS WIDELY AS APPROPRIATE

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### Key Message

- Effective January 29, 2024, Edmonton Base Lab will temporarily refer serum alpha-1 antitrypsin (A1AT) testing to the Diagnostic and Scientific Centre (DSC) Chemistry in Calgary. Please note the change in the reference interval.

### Background

- Reagents used for serum A1AT measurement at Edmonton Base Lab on the Siemens Atellica are currently unavailable.
- Temporary rerouting of serum A1AT measurement to DSC Chemistry will provide service continuity.
- The DSC Chemistry assay for serum A1AT is performed by immunoturbidimetry on the Roche Cobas analyzer, and has a different reference interval.
- Serum A1AT testing performed at the University of Alberta Hospital for emergency patients and inpatients will not be impacted.

### How this will impact you

- The upper limit of the reference interval for serum A1AT will change (see table below).
- Testing at DSC Chemistry is performed daily.
- Reflex criteria for A1AT phenotyping will stay the same (A1AT level <0.9 g/L).
- Follow up communication will be issued once reagent supply is re-established.

	<b>Edmonton Base lab</b>	<b>DSC Calgary</b>
Serum Alpha-1 Antitrypsin Reference Interval	0.90 - 2.60 g/L	0.90 - 2.00 g/L

### Action Required

- Be aware of the change in the reference interval for serum A1AT measurement.
- Reports in Connect Care and Netcare will reflect the correct reference interval.

### Questions/Concerns

- Edmonton Base Lab: Clinical Chemist Team, 780-451-3702 ext. 3572, [clinical.chemists@dynalife.ca](mailto:clinical.chemists@dynalife.ca)



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- DSC Chemistry: Dr. Jessica Gifford, Clinical Biochemist, 403-770-3779, [jessica.gifford@albertaprecisionlabs.ca](mailto:jessica.gifford@albertaprecisionlabs.ca)

**Approved by**

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*Effective September 1, 2023, APL has become the sole provider of all public lab services in Alberta. As a result, community lab services formally provided by DynaLIFE Medical Labs will become the responsibility of Alberta Precision Labs (APL). This change impacts all zones.*