

<b>DATE:</b>	27 May 2024
<b>TO:</b>	North, Edmonton, and Central Zones (sites that refer testing to Edmonton): All Physicians, Nurses, and Managers
<b>FROM:</b>	Clinical Biochemistry, Alberta Precision Labs (APL)
<b>RE:</b>	<b>Implementation of the Anti-Glomerular Basement Membrane Test on the Bioplex Analyzer</b>

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### Key Message

- Effective June 3, 2024, the University of Alberta Hospital in Edmonton will implement serum Anti-Glomerular Basement Membrane (GBM) testing on the Bioplex to align with the Calgary laboratory.

### Background

- Bioplex analyzer implementation is part of large-scale provincial standardization.
- This test is useful for evaluating patients with rapid onset renal failure or pulmonary hemorrhage to aid in the diagnosis of Goodpasture Syndrome.

### How this will impact you

- Red and rapid serum tubes are acceptable alternative containers.
- The minimum blood collection volume has been reduced from 1.0mL to 0.6mL.
- Anti-GBM testing will transition from a manual ELISA method to a multiplex bead immunoassay (Bioplex). Refer to the Table below for reporting changes:

Method	Upper Limit	Units	Reference Interval
ELISA	>200.0	U/mL	<25.0
Bioplex	>800.0	AI (Antibody Index)	<1.0

- Results from different methods cannot be compared.
- Known patients may require re-baselining due to differences in *Anti-GBM* results between methods.
- Automation will improve result turnaround time to 1-3 days.

### Action Required

- Be aware of changes to *Anti-GBM* assay and lab reporting. Refer to the APL [test directory](#).
- Patients having serial monitoring at the time of transition may need a new baseline for comparison.
- For urgent requests, contact the on call Clinical Biochemist.

### Questions/Concerns

- Dr. Kareena Schnabl, Clinical Biochemist: 780 407-3186; [kareena.schnabl@albertaprecisionlabs.ca](mailto:kareena.schnabl@albertaprecisionlabs.ca)

### Approved by

- Dr. Michael Mengel, Medical Director, North Sector, APL

*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.*