

Leaders in Laboratory Medicine

Laboratory Bulletin

DATE:	2022 May 2
TO:	Edmonton Zone, North Zone, Central Zone
FROM:	Genetics and Genomics, North Sector - University of Alberta Hospital
RE:	Change in trisomy 21 (Down syndrome) screening cut-off for first trimester prenatal risk assessments performed in Edmonton

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Key Message

• Effective May 2, 2022, the first trimester prenatal risk assessment screening cut-off for trisomy 21 (Down syndrome) will change from an at-term risk of 1:150 to 1:300.

Background

- This change in trisomy 21 (Down syndrome) prenatal screening cut-off is to align testing across the province which will improve consistency and patient care.
- First trimester prenatal risk assessment also includes screening for trisomy 18 and trisomy 13. The screening cut-offs for these conditions will remain unchanged (at-term risk of 1:150).

How this will impact you

- Patients with a trisomy 21 (Down syndrome) prenatal screening risk greater than or equal to 1:300 will have a positive screen result. Genetic counselling and testing, including the options of non-invasive prenatal testing and/or invasive prenatal testing, are available by referral to the Maternal Fetal Medicine Clinic (Fax: 780-735-4814).
- Based on a short retrospective study, a manageable increase in the number of patients with a positive screen result for trisomy 21 (Down syndrome) is expected following the screening cut-off change.

Action Required

 Diagnostic imaging providers performing ultrasounds for first trimester risk assessment should update reporting of risk assessment cut-off for prenatal screening if applicable.

Effective May 2, 2022

Questions/Concerns

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Approved by

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