

Date: December 14, 2015
To: Calgary & South Zones
From: Genetic Laboratory Services (GLS) - South
Re: **New Algorithm for Chorionic Villus and Amniocentesis Samples Collected in Southern Alberta**

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Key Messages:

- **Effective January 4, 2015**, the testing process for chorionic villus (CVS) and amniocentesis samples collected in Southern Alberta will be modified, consistent with the SOGC Guidelines (Use of a DNA Method, QF-PCR, in the Prenatal Diagnosis of Fetal Aneuploidies, September 2011)
- Rapid aneuploidy detection (RAD) will automatically be performed on CVS and amniotic fluid samples received in the Calgary Cytogenetic Laboratory. This test detects the most common aneuploidies of chromosomes 13, 18, 21 and X and Y.
- A karyotype will **only** be performed for the following indications:
 - Fetus at risk for an unbalanced chromosomal rearrangement
 - Abnormal or nil RAD result
 - All CVS samples (to address the risk of false negative RAD results due to confined placental mosaicism)
- **The requisition used and the information provided on the requisition is critically important.** The clinical information on the requisition determines the type of prenatal testing the patient receives. **It is the responsibility of the healthcare provider completing the requisition to ensure all relevant information is clearly written on the requisition such as family history, prenatal screening results, and ultrasound findings.**

Action Required:

- Refer to the Genetic Laboratory Services website for requisition (Requisition for Constitutional Cytogenetic and FISH Services), collection and handling information at <http://www.albertahealthservices.ca/lab/Page8667.aspx>

Inquiries and feedback may be directed to:

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Allison Sluyters (Allison.sluyters@albertahealthservices.ca) or
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This Communication has been reviewed and approved by:

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