

Date: October 28th, 2020

To: Medical Genetics, Genetic Resource Center, Pediatricians (former SHR) and all other related physicians and care providers

From: Genomics Laboratory, Royal University Hospital, Saskatoon

Re: Quantitative PCR (qPCR) for Chromosomal Microarray (CMA) follow-up test now available in Saskatoon

PLEASE POST AND DISTRIBUTE AS WIDELY AS APPROPRIATE

Key Messages:

- Fluorescence In Situ Hybridization (FISH) using BAC probes is used for follow-up studies of CNVs identified by CMA greater than 200 kb. Currently CNVs less than 200 kb is referred out of province for an alternative molecular testing such as qPCR.
- Effective **November 2nd, 2020**, all CMA follow-up qPCR tests will be performed at the RUH Genomics Laboratory and will no longer be sent out of province.
- For qPCR studies of chromosomal microarray (CMA) findings, please complete the SHA Cytogenetics requisition and request qPCR for CMA follow-up.
- The turnaround time for qPCR analysis on the proband and/or family studies will be 28 days.
- Please collect peripheral blood specimen in **EDTA** tube (2-7 mL) and send to RUH Genomics Laboratory.

Why this change is important:

- Repatriation of qPCR follow-up for CMA findings to RUH Genomics Laboratory will assist in improving the test turnaround time, cost efficiency and patient care.

Inquiries and feedback may be directed to:

- RUH Genomics Laboratory, (306) 655-1706, Cytogenetics@saskhealthauthority.ca

For additional information regarding Laboratory Services in the former Saskatoon Health Region area, please refer to our website- [Laboratory Services Manual](#).