

DATE:	2021 August 9
TO:	All Zones
FROM:	Genetics and Genomics (G&G), Alberta Precision Laboratories (APL)
RE:	New Tests: Inherited Cardiac Disorders Gene Panels

PLEASE POST OR DISTRIBUTE AS WIDELY AS APPROPRIATE

Key Message

- Effective August 9, 2021, the Molecular Genetics Laboratory (MGL) North will offer the following next generation sequencing (NGS) panels for inherited cardiac disorders:
 - Inherited Arrhythmia Gene Panels
 - Brugada syndrome
 - Catecholaminergic polymorphic ventricular tachycardia
 - Long QT syndrome
 - Pan arrhythmia
 - Cardiomyopathy Gene Panels
 - Arrhythmogenic right ventricular dysplasia/cardiomyopathy
 - Dilated cardiomyopathy
 - Hypertrophic cardiomyopathy
 - Pan cardiomyopathy
 - Other Cardiac Gene Panels
 - Comprehensive cardiac
 - Familial or inherited hypercholesterolemia
 - Inherited lipid disorders
- The following genes are available to order as single genes:
 - *ALMS1* (Alström syndrome)
 - *GLA* (Fabry disease)
 - *TBX5* (Holt-Oram syndrome)
 - *TTR* (Transthyretin amyloidosis)
 - All other genes are available only as part of a panel.

How this will impact you

- Effective August 9, 2021, Alberta healthcare providers no longer need to apply for funding through the Genetic Resource Centre (GRC) for these tests.
- Targeted variant testing will continue to be managed by the GRC for at least the first six months, while the laboratory transitions to in-house testing. Targeted variants historically tested in Alberta will be offered through MGL North. If the proband underwent testing in the MGL North, then targeted variant testing for at-risk relatives will be available through the MGL North. If you are unsure which lab should perform targeted variant testing, please contact the GRC.

Action Required

- Visit the [APL Test Directory](#) to learn more about collection requirements, ordering restrictions and gene content.



- Visit the [Genetics and Genomics website](#) to read more about these conditions and testing algorithms under Molecular Genetics Laboratory – Next Generation Sequencing (NGS) Information Sheets.
- To order one of these tests:
 - Providers on Connect Care should submit their orders using Connect Care
 - Providers who do not have access to Connect Care should submit their orders using the [Molecular Genetics Laboratory Cardiac, Connective Tissue and Vascular NGS Requisition](#)

Questions/Concerns

- Molecular Genetics Laboratory North Genetic Counsellors, 780-407-1015
- Genetic Resource Centre, 403-955-5400, grc@albertaprecisionlabs.ca

Approved by

- Dr. Dennis Bulman, Medical/Scientific Director, Genetics & Genomics, APL
- Dr. Carolyn O'Hara, Chief Medical Laboratory Officer (Interim), APL