

## MEMORANDUM

**TO:** Cardiologists and Medical Genetics Units

**FROM:** Dr. Harriet Feilotter, Director  
Medical Genetics Laboratory

**DATE:** 2016 April 05

**RE:** LONG QT (LQT) TESTING

---

The molecular diagnostic laboratory at Kingston General Hospital, in conjunction with Trillium Health Partners, will be accepting samples for the analysis of genes associated with Long QT Syndrome, commencing on **April 1, 2016**. The assay includes complete analysis of *KCNQ1*, *KCNH2*, *SCN5A*, *KCNE1* and *KCNE2*, associated with the most common forms of the inherited syndrome (LQT1,2,3,5 and 6). The analysis of these genes by a combination of sequencing and multiple ligation probe amplification provides an analytic sensitivity and specificity of >99%. Sample requirements are 10 ml of blood collected in an EDTA vacutainer. Samples should be sent to the KGH molecular diagnostic laboratory, accompanied by the approved requisition, available at <http://www.kgh.on.ca/healthcare-providers/lab-requisition-forms>. Standard turn around time for the assay is 6 weeks from receipt of sample. Follow up testing for at risk family members is available in cases where a clinically relevant variant is identified.

HF/asc