

MEMORANDUM

To: Nova Scotia Health Authority Anatomic Pathologists, IWK Health Centre Department of Pathology, Nova Scotia Laboratory Managers, Atlantic Canada Laboratories

From: Dr. Weei Huang and Dr. Wenda Greer - Molecular Diagnostics, Dr. Kelly Dakin-Hache - Orthopedic Pathology, Mr. Randy Veinotte – Esoteric Laboratory Manager

Date: January 15, 2016

Subject: **Molecular Diagnostic Testing of Sarcomas**

The Molecular Diagnostics Laboratory is now offering a multiplex real-time PCR assay for the detection of gene fusions occurring in Ewing's sarcoma and synovial sarcoma.

Test utility

- The characteristic translocations of Ewing's sarcoma and synovial sarcoma are useful diagnostic markers. The assay can detect the most common translocations in Ewing's sarcoma (i.e., EWS-FLI-1 type 1 and type 2) and all translocations in synovial sarcoma (i.e., SYT-SSX1 and SYT-SSX2).
- Molecular testing of possible Ewing's sarcoma or synovial sarcoma can confirm or exclude the diagnosis of these entities
- Results of molecular testing must be interpreted along with the clinical, radiological, and pathological information

Specimen/information required

- 4 x 25 µm unstained sections cut from formalin-fixed paraffin embedded tumor block

Please note: The cost for each of these molecular tests is \$527.19. Requests for these tests from pathologists within Nova Scotia will be subject to approval. The cost of tests referred-in by pathologists in Atlantic Canada will be charged to the referring Department of Pathology.

If you have any questions please contact the Molecular Diagnostics Laboratory at 902-473-6665, Dr Weei Huang at 902-473-7665 (weei-yuan.huang@nshealth.ca) or Faye Lively at 902-473-6387 (faye.lively@nshealth.ca).

CC Dr. Laurette Geldenhuys , Dr. J.G. Heathcote, Ms. Shauna Thompson, Ms. Faye Lively