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| <b>DATE:</b> | 2022 October 6                                                                                       |
| <b>TO:</b>   | Edmonton Zone, North Zone, Oncologists, Hematologists, Hematopathologists, and Anatomic Pathologists |
| <b>FROM:</b> | APL Molecular Pathology North Sector (Edmonton)                                                      |
| <b>RE:</b>   | <b>Critical Shortage of NGS Reagents</b>                                                             |

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### Key Message

- There is a national shortage of reagents needed for molecular testing using next-generation sequencing (NGS), which prevents in-house testing of certain tumours by the molecular pathology lab in the North Sector (Edmonton). As of October 5, 2022, we have begun sending out requests for lung adenocarcinoma testing and for myeloid neoplasms ordered on bone marrow specimens. The results of the send out tests will be available in EPIC as scanned reports, as soon as received, under a "Miscellaneous Test" order. Requests for gastrointestinal stromal tumors (GISTs), ovarian serous carcinomas, and peripheral blood myeloid testing will be held until new reagents are received. If urgent testing of these specimens is needed, please contact the molecular pathologist on service for North Sector at 780-407-6648.

### Background

- An acute reagent shortage for NGS equipment prevents Molecular Pathology North Sector (Edmonton) from completing any new NGS test requests. As such, all NGS test requests will either be sent to outside facilities for testing (lung and bone marrow myeloid specimens) or held pending receipt of additional reagents (GIST, ovarian serous carcinoma, peripheral blood myeloid specimens).

### How this will impact you

- Scanned reports of tests sent out will be available with minimal turnaround time delays in EPIC under "Miscellaneous Test" orders. These results will not be available in Netcare; all test results will be faxed to the CCI triage nurses at the time of receipt by APL Client Services. Tests held will be delayed until new reagents are received, with proportionate delays in expected turnaround times.

### Action Required

- Look for NGS test results in the Media tab of EPIC as Laboratory Managed Results. If urgent testing of GIST, ovarian serous, or peripheral blood myeloid samples is needed, please call the laboratory at 780-407-6648 to discuss with the molecular pathologist on service.

**Effective**      **October 5, 2022**

### Questions/Concerns

- Dr. Cheryl Mather, Medical Lead, Molecular Pathology North Sector  
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### Approved by

- Dr. Imran Mirza, Provincial Medical/Scientific Director, Molecular Pathology Program, APL
- Dr. Carolyn O'Hara, Chief Medical Laboratory Officer (Interim), APL