

Please find the IWK Clinical Genomics Hereditary Cancer requisition. Completion of the Introduction to Genetic Testing and appropriate oncology education modules is currently required to order this test.

It should be used for ordering Next Gen Sequencing panels of genes related to Breast Cancer, Epithelial Ovarian Cancer, Pancreatic Cancer or Prostate Cancer in patients with the indications on the requisition.

If you have questions regarding the restrictions for ordering this test, please contact the Clinical Genomics Laboratory at clinicalgenomics.gc@IWK.NSHealth.ca

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**Clinical Genomics Laboratory**

5850/5980 University Ave, PO Box 9700

Halifax, NS B3K 6R8

Phone: (902) 470-6504

Fax: (902) 470-7466

Email: clinicalgenomics@iwk.nshealth.caFor additional up-to-date testing information and our most current requisitions,
please visit our website: <http://www.iwk.nshealth.ca/clinical-genomics/>**HEREDITARY CANCER TESTING REQUISITION**

Hours of Operation: Monday to Friday: 0800-1700. After hours call: 902-470-8289

Patient Information		Ordering Health Care Provider Information	
Name (LAST, FIRST MIDDLE) : DOB (dd/mmm/yyyy) : Health Card #: Province of Residence: Hospital #: Site Visit #: Phenotips ID (MMGS only): Sex Assigned at Birth: Legal Gender:		Name: Office/Institution: Phone #: Fax # (Required): Email: Confirmation of Informed Consent: I (or my designate) have explained the risks, benefits and limits of the tests requested, and have answered the patient's questions. In my opinion the patient understands and has given informed consent for this testing.	
Sample Type		Signature (Required): _____ Health Care Provider _____ Date signed (dd/mmm/yy) _____	
<input type="checkbox"/> Peripheral blood — Lavender EDTA 3mL Collection Date/Time: Collection Facility: Collector Initials:		Additional Copies to: Health care provider: Facility: Phone #: Fax #:	
Testing Requested			
<input type="checkbox"/> Routine (6 week TAT) <input type="checkbox"/> STAT (3 week TAT) — Indication for expedited testing: _____			
Breast Cancer: Hereditary Breast and Ovarian Cancer Panel <input type="checkbox"/> DCIS, invasive ductal/lobular breast cancer \leq 50 yrs <input type="checkbox"/> Triple negative breast cancer (at any age) <input type="checkbox"/> Male breast cancer (male sex assigned at birth) <input type="checkbox"/> Metastatic/High Risk breast cancer and meets Health Canada and provincial eligibility criteria for a PARP inhibitor <input type="checkbox"/> Multiple primary breast cancers at any age (e.g. bilateral breast cancer, ipsilateral new primary tumour) <input type="checkbox"/> Ashkenazi Jewish ancestry with breast cancer (at any age)			
Epithelial Ovarian Cancer: Hereditary Breast and Ovarian Cancer Panel <input type="checkbox"/> Epithelial ovarian/fallopian tube/primary peritoneal cancers at any age (excluding borderline tumors)			
Pancreatic Cancer: Pancreatic Cancer Panel <input type="checkbox"/> Pancreatic adenocarcinoma (any age)			
Prostate Cancer: Prostate Cancer Panel <input type="checkbox"/> Prostate cancer \leq 50 <input type="checkbox"/> Metastatic prostate cancer <input type="checkbox"/> Prostate cancer with at least one of the following HIGH RISK features: 1. T3 or higher staging 4. PSA \geq 20 2. Grade group 4 or 5 5. Lymph node involvement 3. Gleason score 8+ 6. Intraductal, ductal or cribriform pathology			
Please Indicate (if applicable) if the Patient has: <input type="checkbox"/> Had an allogeneic bone marrow transplant <input type="checkbox"/> A current hematological neoplasm <input type="checkbox"/> Received blood products containing leukocytes/non-irradiated RBCs in the last 14 days			
Family History: If your patient has a strong family history of cancer, a comprehensive risk assessment/additional genetic testing in the Maritime Medical Genetics Service (MMGS) may be indicated. Please review your patient's family history and MMGS referral guidelines and refer if appropriate.			



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Sample Requirements for Molecular Genetic Testing

Peripheral blood: Collect 3mL in lavender EDTA (newborns <1 month: 1mL). *IWK Meditech: DNAM*. Do not centrifuge or freeze. Ship at room temperature within 72 hours.

(Note: if patient has received blood product containing leukocytes or non-irradiated red blood cells in the last 14 days, contact the laboratory before collection as the sample may not be suitable for all testing. Transfusions of irradiated packed red blood cells, plasma, or platelets are accepted as these are not expected to affect this genetic testing.)

Postmortem blood: Collect 5mL in lavender EDTA. Send at room temperature within 72 hours. Alternatively, freeze at -80°C upon collection and send on dry ice.

Skin Biopsy: Collect 3mm skin punch into specimen container containing sterile media or saline, taken using aseptic technique. Sample must arrive to the IWK within 24 hours of collection, during regular business hours. To collect: clean skin surface 3 times with 70% isopropyl alcohol by either pouring over the skin surface, or using sterile cotton pads saturated by dipping in alcohol from a sterile container. Allow skin to air dry between applications. Note: Never use betadine as it can inhibit or prevent cell growth. For numbing the area, use 2% lidocaine or 2% lidocaine w/epinephrine 1:100,000 using a small gauge (22G) needle just under the skin to create a bleb. Do not freeze- send at 4°C.

Tissue (surgical/postmortem): Do not place in formalin. If dry ice is available, freeze at -80°C upon collection (with no added saline) and send on dry ice. If dry ice is not available, do not freeze- collect the sample in sterile saline and send at 4°C within 24 hours. NOTE: if cytogenetic cell culture/karyotype is required, do not freeze- order using *CYTOGENETICS CONSTITUTIONAL KARYOTYPE* requisition. For Fetal Tissue (products of conception/fetal demise) please use the *FETAL GENETIC TESTING* requisition.

Cord Blood: NOTE - Please follow all instructions to avoid specimen rejection:

1. Label both specimen and requisition with **neonatal** demographics, including: infant name (or "Baby of MATERNAL LAST NAME, MATERNAL FIRST NAME"), infant's date of birth, and infant's HCN (NOTE: if infant's HCN is unavailable, use maternal HCN but clearly indicate "MOM" immediately beside HCN.)
2. Collect 3mL cord blood sample from cord using a syringe, maintaining clean technique to avoid maternal contamination of the specimen. Immediately transfer to labeled lavender EDTA tube. *IWK Meditech: order under infant- pneumonic DNAM*.
3. Required: handwrite or affix a sticker on the specimen tube indicating "CORD BLOOD".
4. Ship to the laboratory at room temperature within 24 hours. Do not centrifuge or freeze specimen.
5. Note: a maternal peripheral blood specimen to rule out maternal cell contamination is also required- along with a separate *GENERAL CONSTITUTIONAL MOLECULAR GENETIC TESTING* requisition.

Collection information for patients: Peripheral blood can be collected at any blood collection facility convenient for you; fasting is not required.

Informed Consent for Molecular Genetic Testing

Information to be discussed with patient by Healthcare Provider (note: consent for pathology specimens is included under the autopsy consent). Additional information regarding indications for testing, test procedures, test limitations and turnaround times can be found on our website at <https://www.iwk.nshealth.ca/clinical-genomics>.

General Information about Genetic Testing

1. This test cannot detect every genetic abnormality. Therefore, a normal test result does not rule out all possible genetic conditions.
2. Correlation with clinical information may be required for accurate interpretation. Correct interpretation of results depend on accurate clinical findings, family relationships and other laboratory data provided.
3. This test might reveal:
 - a. Variants of uncertain significance (VUS). These variants may or may not be related to the patient's phenotype or disease.
 - b. Unexpected information about family relationships (e.g. non-paternity, consanguinity).
4. Complete interpretation of test results may require additional follow-up testing on other family members.
5. Test results are confidential, but may be used without identifying information for interpretation of testing for family members.
6. When available, genetic testing will be performed at the IWK Clinical Genomics Laboratory (CGL). When testing cannot be performed at CGL, testing may be referred out to an external laboratory.
7. Results from testing may be submitted to clinical databases anonymously as needed (with all identifying information removed). These clinical databases are used by the laboratory in order to assist in accurate interpretation of results.
8. Genetic counselling through Maritime Medical Genetics Service (MMGS) is available upon request: fax a referral to their department at 902-470-8709 or phone 902-470-8754 to request the appropriate forms.

DNA STORAGE

Temporary Retention of Residual Samples: 5 years

- Following completion of testing, or when *Test Request to Follow* is indicated, DNA will be stored for a minimum of 5 years. (Original specimens are not retained; excluding Medical Examiner tissues).
- Any additional testing of the sample will require a written request from a health care provider including a signed statement that the patient has been consented appropriately for the testing.
- When testing is complete, the laboratory may anonymize and use some of the residual sample or genetic data to improve and develop new testing. Unexpected genetic findings unrelated to the testing indication will not be reported.

DNA Banking: 25 years (Separate form required, see *DNA BANKING REQUEST FORM*)

- Long-term DNA banking is available upon request only for eligible indications.
- For more information, please refer to our DNA banking policy on our website at <https://www.iwk.nshealth.ca/clinical-genomics>

Sample Disposal/Test Cancellation

- Sample disposal and test cancellation is available. Separate form is required: see *TEST CANCELLATION/SAMPLE DISPOSAL REQUEST FORM*