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| <br>Eastern Health<br>Laboratory Medicine | <b>Section:</b> Management System\Eastern Health Laboratories\Genetics\Collection Manual\Cytogenetics\ |                        |                      |
|   | <b>Title:</b> Cytogenetics Specimen Collection and Transport Instructions                              |                        | <b>Number:</b> 11709 |
|   | <b>Effective Date:</b> 4/2/2019  |                        | <b>Version:</b> 2.0  |
|   |  | <b>Status:</b> Current |                      |

## Cytogenetics Specimen Collection Instructions

| <b>Requisitions must be sent with all samples</b> (to access requisitions online see below)  |   |  |  |
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| All samples are to be sent immediately to the <b>Cytogenetics Laboratory, Room 3M500 Craig Dobbin Genetics Research Centre or to Lab Office.</b> Please call us at 777-4532 if there are any questions about sample collection.  |   |  |  |
| Sample Type  | Collection  | Collection & Processing  | Shipping & Preferred Condition   |
| <b>Whole Blood (Sodium heparin)</b><br><br>   | Sodium heparin (dark green top tube)  | <ul style="list-style-type: none"> <li>➤ Infants and young children 2-3 ml (<b>minimum 1.2 ml</b>).</li> <li>➤ Children 2-10 years old: 3-5 ml.</li> <li>➤ Adults: 5-8 ml.</li> </ul> Mix Well.  | Ship sample at room temperature for receipt at lab within 24 hours of collection. <b>Do not freeze.</b>  |
| <b>Bone Marrow</b>   | Sodium heparin (dark green top tube)  | Collect 1-5 ml of bone marrow (preferably 2 <sup>nd</sup> /3 <sup>rd</sup> draw). Mix well.  | Ship sample ASAP at room temperature for receipt at lab within 24 hours. Do not freeze.  |
| <b>Products of Conception (POC)</b><br><br><b>Skin Biopsy</b><br><br><b>Tumor</b>  | Sterile container with sterile transport media such as: <b>RPMI or Hanks Solution.</b><br><br>Use sterile saline if sterile media is not available. | 1-2 cm of, skin, cartilage, POC, or placental tissue placed in <b>separate</b> sterile containers with transport media.<br><br>Specify tissue type collected.<br><br>Avoid collecting chorionic villi or placenta if possible.<br><br><b>Tissues fixed in formalin cannot be used.</b> | Ship sample at room temperature ASAP for receipt at lab within 24 hours. Refrigerate until time of shipment. <b>Do not freeze.</b><br><br><b>Please notify the Cytogenetics Lab (777-4793) before any tissue is sent.</b><br><br><b>When a tissue is scheduled to arrive outside of regular working hours (M-F 8:00-4:00) leave a message for the lab staff at 777-4793.</b> |
| <b>Amniotic Fluid</b>  | 15 ml sterile conical centrifuge tube   | 15-25 ml fluid, Place in 2-3 specimen tubes.   | Preferred gestational age 15 to 24 weeks. Must be received in a securely closed, sterile container. Ship sample at room temperature for receipt at lab within 24 hours. <b>Do not freeze.</b>  |
| <b>Cord Blood</b>  | Same as whole blood   | Please contact lab at 777-4532   | Same as whole blood.   |
| Constitutional Cytogenetic requisitions can be found on Eastern Health's webpage ( <a href="http://www.easternhealth.ca/">http://www.easternhealth.ca/</a> ). On the main webpage, go to "For Health Professionals" → "Eastern Health Forms and Resources" located on the left. Under the "Laboratory Medicine" heading, select " <b>Chromosome Requisition for Constitutional Study</b> " or " <b>Cytogenetics for Amniocentesis</b> "<br>For hematology specimens, go to <a href="http://pulse.easternhealth.ca">http://pulse.easternhealth.ca</a> . Under forms, searching "Genetics", you will find " <b>SPECIAL HEMATOLOGY ADULT BONE MARROW, FLOW CYTOMETRY AND GENETICS REQUISITION</b> " |   |  |  |