Fetal-Placental Tissue for Cytogenetics Collection

**PRINCIPLE:**

The procedure defines the process for obtaining fetal, placental or products of conception tissue for cytogenetics testing.

**CRITERIA FOR SPECIMEN ACCEPTABILITY AND REJECTION:**

A. Fetal, placental or products of conception tissue collected in SCTM Solution for transport, using alcohol prep pads only (NO IODINE).

**PERSONNEL:**

This procedure applies to physicians, nurse practitioners and all medical staff responsible for collecting fetal tissue for cytogenetics testing

**EQUIPMENT/SUPPLIES:**

A. Personal Protective Equipment (Universal Precautions)
   1. Eye Protection
   2. Gloves

B. Equipment (Kept in basket in Grossing Room cabinet above log book)
   1. 2 – Specimen labels with patient name, DOB, and if possible, MRN.
   2. Sterile biopsy collection kit
   3. Alcohol prep pads
   4. SCTM Solution container (request from Histology Laboratory)

C. Required Forms
   1. Surgical pathology requisition

**PROCEDURE:**

1. Obtain two specimen labels with patient name, DOB, and if possible, Medical Record Number
2. Obtain a sterile biopsy collection kit (scalpel, forceps, and scissors) and alcohol prep pads. DO NOT use iodine based preps as iodine is cytotoxic
3. Obtain a sterile collection container with SCTM Solution from the refrigerator in the Grossing Room
4. Place specimen label on container of SCTM Solution
5. Obtain specimen
   a. **Fetal biopsy** (sterile procedure): Choose a non-macerated site (typically the thigh or back) and swab with an alcohol prep pad. Take a firm grasp of the tissue and make a deep cut - excising skin and underlying tissue as well. The biopsy should be approximately 2 X 3 mm. Place the biopsy in the sterile container of SCTM Solution, labeled with patients' name, DOB, SEX and MRN. Label the container "Fetal Biopsy" and include the date and time.

   b. **Placental Biopsy** (sterile procedure): Find the cord insertion site. Take a firm grasp of the cord and pull up. This will cause the membrane to tent up. Make an incision near the cord insertion site. Reaching into this incision, excise some villi. The biopsy should be 2 X 3 mm. Place the biopsy in SCTM Solution and label with the patients' name, DOB, and MRN. Label the container "Placenta" and include the date and time.

   c. **Products of conception** (collected in a sterile container): Place tissue in the sterile container of SCTM Solution and label with the patients' name, DOB, and MRN. Label the container "POC", include the date and time, and transport to the laboratory immediately.

6. Return the biopsies/tissue to the lab with a fully completed surgical pathology requisition form. Please include complete clinical history and length of gestation.

**ACCESSIONING, TRANSPORT, & CHARGING:**

Follow instructions as given in procedure: "Tissues Removed at Operation"

**NOTES:**

It is essential that iodine based prep pads are NOT used during this procedure as they are cytotoxic.

**RESULT REPORTING:**

Results are reported by the assigned Pathologist. See also procedure: "Tissues Removed at Operation" for report distribution instructions.

**METHOD CHANGE DOCUMENTATION LOG**

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<thead>
<tr>
<th>DATE</th>
<th>COMMENTS (What changed &amp; why?)</th>
<th>BY</th>
<th>DIR APP</th>
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<tr>
<td>01/01/2019</td>
<td>New procedure after change of Laboratory Directorship</td>
<td>J Benzaia</td>
<td>C Cocklin, MD</td>
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