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|---|---|------------------------|-------------------------------------|
|  | <b>Acceptable Samples for Hematology and Special Hematology</b><br><br><b>OP-306-14</b> | <b>Dept:</b>           | <b>Outpatient Phlebotomy 324306</b> |
|   |   | <b>Effective Date:</b> | <b>February, 2011</b>               |
|   |   | <b>Revised Date:</b>   | <b>February, 2019</b>               |
|   |   | <b>Contact:</b>        | <b>Rinard Howard</b>                |
| <b>Name &amp; Title: Greg Pomper, MD Medical Director</b>                         |   | <b>Date:</b>           |                                     |
| <b>Signature:</b>   |   |                        |                                     |

**1) General Procedure Statement:**

- a. **Purpose:** The anticoagulant of choice for routine hematological testing is EDTA (purple top tube). EDTA maintains the morphology of the blood cells, keeps platelets from clumping, and keeps the blood from clotting.
- b. **Responsible Department/Scope:**
  - 1.Procedure owner/Implementer: Outpatient Phlebotomy
  - 2.Procedure prepared by: Rinard Howard, MHA PBT – ACSP
  - 3.Who performs procedure: Outpatient Phlebotomy staff

**2) The following tests are done using EDTA anti-coagulated blood:**

- CBC
- Differential
- Platelet Count
- WBC
- Hematocrit/Hemoglobin
- Sed Rate/ESR (This can also be done in Sodium Citrate ESR tube)
- Retic Count
- Sickle Cell Determination
- Total Eosinophil Count
- Flow Cytometry

All EDTA tubes submitted to Hematology Laboratory should be at least 1/2 full for the proper ratio of blood to anti-coagulant. Minimum draw is 1 ml.

The following tests require serum for testing (clotted blood or red top tube).  
 Serum Osmolarity                      2 ml minimum

Most tests done in Hematology may be done using capillary blood samples. These tests include the following with the minimum requirements:

|                |   |                   |
|----------------|---|-------------------|
| CBC            | 1 | EDTA microtainer  |
| Retic Count    | 1 | EDTA microtainer  |
| ESR            | 1 | EDTA microtainer  |
| Flow Cytometry | 2 | EDTA microtainers |

**NOTE:**

When specimens are clotted, Hematology staff will notify the Provider.

Nursing will then reenter the order for collection if necessary. EDTA tubes should be half full (1/2ml) if an ESR is ordered in addition to the CBC.

Any specimen deemed unacceptable for Hematology work will be called to the ordering nursing unit to be reordered or recollected as necessary.

**3) Collection / Preservation / Transportation:**

Specimens for Special Hematology are collected and delivered to Central Processing as soon as possible. Specimens are maintained at room temp (*22 degrees C*) during transport. Plasma Viscosity, Whole Blood Viscosity, and Osmotic Fragility are extremely sensitive to prolonged periods of time and Special Hematology should be alerted as soon as these samples are delivered.

**4) Related Procedures: N/A**

**5) References: N/A**

**6) Attachments: N/A**

**7) Revised/Reviewed Dates and Signatures:**

Reviewed/Revised Date: \_\_\_\_\_ By: \_\_\_\_\_  
(Medical Director/Designee)

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