General Information

Lab Order Codes: ESR

Synonyms: Sedimentation Rate; Sed Rate; Erythrocyte Sedimentation Rate

CPT Codes: 85652 – Sedimentation Rate, erythrocyte, automated

Test Includes: Erythrocyte sedimentation rate reported as mm/hr.

Logistics

Test Indications: Helps to evaluate the nonspecific activity of infections, inflammatory states, autoimmune disorders, and plasma cell dyscrasias; in particular to assess severity of and follow clinical activity of rheumatic diseases, especially rheumatoid arthritis.

Lab Testing Sections: Hematology

Phone Numbers: MIN Lab: 612-813-6280
STP Lab: 651-220-6550

Test Availability: Daily, 24 hours

Turnaround Time: 1 hour

Special Instructions: N/A

Specimen

Specimen Type: Whole blood

Container: Lavender (EDTA) top tube or EDTA microtainer

Draw Volume: Lavender (EDTA) tube: 2 mL blood
EDTA microtainer: 0.5 mL blood

Processed Volume: 100 uL blood

Collection: MUST be filled by venipuncture or Line draw. Fill to mark on tube. Mix thoroughly by gentle inversion.
**Special Processing:** Lab Staff: **Do Not** centrifuge

**Patient Preparation:** None

**Sample Rejection:** Improper tube; clotted sample; underfilled tube; mislabeled or unlabeled specimens; EDTA samples at room temperature >4 hours; EDTA samples refrigerated longer than 24 hours; capillary draw

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**Interpretive**

**Reference Range:**

<table>
<thead>
<tr>
<th></th>
<th>Pediatrics</th>
<th>Adults</th>
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</thead>
<tbody>
<tr>
<td><strong>Adults</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Male</td>
<td>0 - 20 mm/hr</td>
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<tr>
<td>Female</td>
<td>0 - 10 mm/hr</td>
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**Critical Values:** None

**Limitations:** Reportable range: 1 – 130 mm/hr

**Methodology:** iSED analyzer, Alcor Scientific Inc.

**References:**


iSED Operator’s Manual, Alcor Scientific, 20 Thurber Boulevard, Smithfield RI, 02917

**Updates:**

12/4/2013: Added new specimen rejection criteria based on temperature storage and age of sample. Updated Methodology.

2/1/2019: Updated collection and Method.

4/15/2019: Updated rejection criteria to extend from 12 to 24 hours for refrigeration storage.