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**Lab Dept:** Hematology

**Test Name:** ESR

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***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.

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***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

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***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***

<b>Reference Range:</b>	<b>Pediatrics</b>	0 - 20 mm/hr
	<b>Adults</b>	
	Male	0 - 20 mm/hr
	Female	0 - 10 mm/hr

**Critical Values:** None

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

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

**References:** Harmening DH (1997) Clinical Hematology and Fundamentals of Hemostasis, 3<sup>rd</sup> ed

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.