



Laboratory Service Manual

Lab Dept: Hematology

Test Name: EOSINOPHILS, TOTAL COUNT

General Information

Lab Order Codes: EOCT

Synonyms: Total Eos; Eo Count; Absolute Number of Eosinophils

CPT Codes: 85021 – Hemogram, automated

85008 – Manual blood smear examination with differential parameters

Test Includes: N/A

Logistics

Test Indications: Useful in determining presence of eosinopenia or eosinophilia in the peripheral blood which can be present in a variety of conditions: adrenal response to ACTH, allergic reactions, parasitic infections, skin disorders, hypereosinophilic syndromes, neoplastic diseases and other miscellaneous disease states

Lab Testing Sections: Hematology

Phone Numbers:

Minneapolis: 612-813-6280

Saint Paul: 651-220-6550

Test Availability: Daily, 24 hours

Turnaround Time: 4 hours

Special Instructions: **Do Not** collect specimen while lipids are being infused or 4 hours post-infusion. Specimen must arrive within 2 hours of draw.

Specimen

Specimen Type: Whole blood

Container: Lavender top tube (EDTA) or Lavender Microtainer®

Draw Volume: 2.0 mL blood in a short draw 5.0 mL EDTA tube or 0.5 mL in a Microtainer®



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Processed Volume:	Same as Draw Volume
Collection:	Fill to mark on tube or Microtainer®. Mix well by gentle inversion.
Special Processing:	Lab Staff: Do Not centrifuge
Patient Preparation:	None
Sample Rejection:	The following samples will be rejected: Improper tube, Clotted sample, Overfilled tube, Underfilled tube

Interpretive

Reference Range:	50 – 250 Eos/mm ³ Eosinopenia: <50 Eos/mm ³ Eosinophilia: >450 Eos/mm ³ A definite diurnal variation occurs with a mid-morning nadir, approximately 20% less than the 0800 level; a maximal nocturnal peak, approximately 30% greater than the 0800 level. This diurnal variation is not observed in patients with adrenal insufficiency.
Critical Values:	N/A
Limitations:	Estimates of eosinophil numbers based on differential counts and stained blood smears are subject to error because the natural stickiness or adherence of eosinophils prevents even distribution.
Methodology:	Automated cell counter with automated or manual differential.
Contraindications:	N/A
References:	Davidson, Henry, Todd-Sanford (1979) Clinical Diagnosis by Laboratory Methods, 15 th ed Harmening DH (1997) Clinical Hematology and Fundamentals of Hemostasis, 3 rd ed Oski and Nathan (1998) Hematology of Infancy and Childhood, 5 th ed