Lab Dept:

Hematology

EOSINOPHILS, TOTAL COUNT **Test Name:**

General Information

Lab Order Codes:	EOCT
Synonyms:	Total Eos; Eo Count; Absolute Number of Eosinophils
CPT Codes:	85999 – Unlisted Hematology
Test Includes:	The total eosinophil count in blood reported in k/uL
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, hyper-eosinophilic syndromes, neoplastic diseases and other miscellaneous disease states
Lab Testing Sections:	Hematology
Phone Numbers:	MIN Lab: 612-813-6280
	STP Lab: 651-220-6550
Test Availability:	Daily, 24 hours
Turnaround Time:	4 hours
Special Instructions:	Do Not collect specimen while lipids are being infused.
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Specimen	
Specimen Specimen Type:	Whole blood

Collection:	Fill to mark on tube or Microtainer®. Mix well by gentle inversion.
Special Processing:	Lab Staff: Do Not centrifuge. Process as whole blood.
Patient Preparation:	None
Sample Rejection:	Improper tube; clotted sample; underfilled tube; mislabeled or unlabeled specimen
Interpretive	
Reference Range:	0.050 – .250 k/uL
	Eosinopenia: <0.050 k/uL
	Eosinophilia: >.450 k/uL
	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:	N/A
Methodology:	A combination of techniques, including fluorescence flow cytometry, hydrodynamic focusing, impedance, and non-cyanide SLS hemoglobin measurement – OR manual differential.
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
References:	5/5/2021: Updated CPT code
	4/2/2025: changed reporting units to k/uL and updated draw volume verbiage for consistency with all Heme testing.