Lab Dept: Hematology

Test Name: DIFFERENTIAL

General Information

Lab Order Codes:	ADIF
Synonyms:	Differential White Blood Cell (WBC) Count, Blood; Manual Diff; Diff; WBC Differential; Leukocyte Differential Count
CPT Codes:	85007 – Blood count; manual differential WBC count (includes RBC morphology and platelet estimation)
Test Includes:	BLAST%, PROMYELO%, MYELO%, META%, PMN%, BAND%, LYMPH%, MONO%, EOS%, BASO%, Absolute Neutrophil Count, RBC Morphology, WBC Morphology, Platelet Morphology and Estimate

Logistics

Test Indications:	Useful for determining qualitative and quantitative variations in white cell numbers and morphology, red cell morphology, and platelet evaluation. May be of use in the evaluation of anemia, leukemia, infections, inflammatory states, and inherited disorders of red cells, white cells, and platelets.
Lab Testing Sections:	Hematology
Phone Numbers:	MIN Lab: 612-813-6280 STP Lab: 651-220-6550
Test Availability:	Daily, 24 hours
Turnaround Time:	2 hours
Special Instructions:	A WBC count must accompany a differential order.

Specimen

Specimen Type:	Whole blood
Container:	Lavender (EDTA) top tube or Lavender (EDTA) Microtainer®
Draw Volume:	2 mL blood in a 2 mL Lavender top tube **OR** 0.5 mL in a EDTA Microtainer®

Processed Volume:	Same as Draw Volume
Collection:	Fill to mark on tube or Microtainer®. Mix thoroughly 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 specimens

Interpretive

Reference Range:	Age dependent, Refer to CBC Reference Value Table
Critical Values:	Presence of blasts
Limitations:	Because of sampling, large statistical variation exists, particularly with the 100-cell count manual method and with low incidence cells.
Methodology:	Light Microscopy
References:	Harmening DH (1997) Clinical Hematology and Fundamentals of Hematology, 3rd ed
	Oski and Nathan (1998) Hematology of Infancy and Childhood, 5th ed