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 smear, with manual differential WBC count
Test Includes:	100-cell differential with slide review for WBC, RBC, and Platelet morphology
Logistics	
Test Indications:	Determination of qualitative and quantitative variations in white blood cells. Useful 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:	EDTA Lavender top tube or EDTA Lavender Microtainer®
Draw Volume:	Lavender (EDTA) 2 mL Vacutainer tube: Minimum fill volume of <b>1 mL</b> is required. Allow the tube to fill until the vacuum is exhausted, and blood flow ceases. Lavender (EDTA) Microtainer® tube: Minimum of <b>0.5</b> mL is required. To be used for neonates, collected volumes <1.0 mL, or when a capillary (skin puncture) collection is required.

N/A
Venipuncture or capillary draw
Lab Staff: <b>Do Not</b> centrifuge. Process as whole blood.
None
Improper tube; clotted sample; underfilled tube; overfilled; mislabeled or unlabeled specimens
Age dependent, Refer to CBC Reference Value Table
Presence of blasts
Because of sampling, large statistical variation exists, particularly with the 100-cell count manual method and with low incidence cells.
Light Microscopy or Digital Image analysis
Harmening DH (1997) Clinical Hematology and Fundamentals of Hematology, 3 <sup>rd</sup> ed
Oski and Nathan (1998) Hematology of Infancy and Childhood, 5 <sup>th</sup> ed

Updates:

4/1/2025: Updated CPT verbiage, and volume requirements