Lab Dept:

Hematology

Test Name:	CBC, PLATELET WITH DIFFERENTIAL
General Information	
Lab Order Codes:	CBC
Synonyms:	Complete Blood Count (CBC) with Differential; Complete Blood Count (CBC); CBC, Hemogram with Differential; Complete Blood Count (CBC), Platelet with Differential (PLTC)
CPT Codes:	85023 – Hemogram and platelet count, automated, and manual differential WBC count (CBC) 85025 – Hemogram and platelet count, automated, and automated complete differential WBC count (CBC)
Test Includes:	WBC, RBC, HGB, HCT, MCV, MCH, MCHC, RDW, Platelet Count, MPV, WBC Differential
Logistics	
Test Indications:	Useful for the evaluation of anemia, leukemia, reaction to inflammation and infections, peripheral blood cellular characteristics, state of hydration and dehydration, polycythemia, hemolytic disease of the newborn, and ABO incompatibilities.
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:	N/A
Specimen	
Specimen Type:	Whole blood
Container:	Lavender (EDTA) top tube , Lavender (EDTA) Microtainer $\ensuremath{\mathbb{R}}$
Draw Volume:	2 mL blood in a 2 mL Lavender top tube OR 0.5 mL in a EDTA Microtainer®

Processed Volume:	Minimum: 0.5 mL blood
Stability:	Optimal when run within in 4 hours of collection. Stable for 24 hours at room temperature. Stable for 36 hours at 2 – 8 degrees C.
Collection:	Routine venipuncture or capillary draw
Special Processing:	Lab Staff: Do Not centrifuge
Patient Preparation:	None
Sample Rejection:	Improper tube; clotted sample; underfilled tube; overfilled tube; mislableled or unlabeled specimen

Interpretive

Reference Range:

Age and Sex Dependent; Refer to CBC Reference Value

Critical Values:	Test:	Value	Hem/Onc Clinics
	Hematocrit:	<21% or >65%	None
	Hemoglobin:	<7.0 gm/dL	<5.0 gm/dL
	Platelets:	<50,000 or >1,000,000	<5,000
	WBC:	Newborn: <5,000 or >35,000	None
		Others: <2,000 or >25,000	None
	Differential/ Morphology:	Presence of Blasts; however, if the presence of Blasts has been reported within the last 30 days no notification is necessary.	Presence of Blasts; however, if the presence of Blasts has been reported within the last 30 days no notification is necessary.
Limitations:	Characteristics that may affect results include: lipemia (or patients receiving lipids), icterus and cold agglutinins.		
		ed WBC and cold agglutinins sional specimen.	will prolong the turnaround
Methodology:	Automated Cell	Counter	

Differential will not be done on samples with a WBC <0.1 x $10^{3}/uL$ **Contraindications:**

References:	Nathan, DG, et al (1987) Hematology of Infancy and Childhood, WB Saunders pp.1680-1688
	Normal Reference Range Study (1994) Children's Hospitals and Clinics, Minneapolis and St Paul, MN, Hematology Laboratory
Updates:	3/21/2011: Critical value statement for Blasts previously listed as "Presence of Blasts". 11/12/2015: Updated differential WBC requirements. 9/26/2018: Update to lipemic sample information.