Lab Dept: Hematology

Test Name: HEMOGLOBIN

General Information

Lab Order Codes:	HGBB
Synonyms:	Hgb; Hb
CPT Codes:	85018 – Blood count; hemoglobin
Test Includes:	Hemoglobin reported in g/dL.

Logistics

Test Indications:	Useful for evaluating anemia, blood loss, hemolysis, polycythemia, and other diseases of hematopoiesis.
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®, ● Sims Portex® syringe (PB151) or Smooth-E syringe (956-463) Accepted: Radiometer Balanced Heparin Capillary gas tube (MIN: 70 uL cap tube, STP: 100 uL cap tube)
Draw Volume:	2 mL blood in a 2 mL Lavender top tube OR 0.5 mL in a EDTA Microtainer® OR **0.4 mL (Minimum: 0.2 mL syringe, MIN: 0.07 mL capillary, STP: 0.1 mL capillary) blood

Processed Volume:	Same as Draw Volume
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:	Fill to mark on tube or Microtainer®. Mix thoroughly by gentle inversions.
Special Processing:	Lab Staff: **Do Not** centrifuge. Process as whole blood.
Patient Preparation:	None
Sample Rejection:	Improper tube; clotted sample; underfilled tube; overfilled tube; mislabeled or unlabeled specimen

Interpretive

Reference Range:	Age and sex dependent, see CBC Reference Value Table
Critical Values:	<7.0 g/dL
Limitations:	Characteristics that may affect results include: lipemia (or patients receiving lipids), icterus and cold agglutinins. Hyperlipemic plasma or WBC >100,000/mm^3 may falsely elevate the hemoglobin result which may delay the turnaround time. **No follow-up or add on Hematology testing can be performed on specimens collected as a heparin syringe or capillary tube
Methodology:	Cyanmethemoglobin - Automated Cell Counter
References:	Harmening DH (1997) Clinical Hematology and Fundamentals of Hemostasis, 3rd ed Oski and Nathan (1998) Hematology of Infancy and Childhood, 5th ed
Updates:	2/17/2005: Critical values previously listed as 0-7 day: <11.5 g/dL, 8-28 days: <10.0 g/dL, >28 days: <8.0 g/dL. 9/26/2018: Update to lipemic specimen info. 5/8/2019: Added hep syringe and cap tube as acceptable specimens