

University of California, San Francisco-Dept of Laboratory Medicine
Zuckerberg San Francisco General Hospital 1001 Potrero Ave, SF, CA 94110
Clinical Laboratory – Barbara Haller, MD, PhD, Laboratory Director

**Point of Care Testing: Blood Gas, Electrolyte, Glucose, Hematocrit,
Lactate, Carboxyhemoglobin and Methemoglobin by the GEM4000
Analyzer; upgraded to GEM5000 Premier Analyzer on 6/28/2022**

UNIT: Neonatal ICU

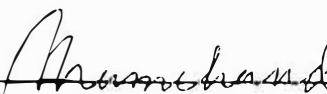
Date: 1/15/20





Cindy Tran, MD
NICU Medical Director

Barbara Haller, MD, PhD
Director, Clinical Laboratory



Shilu Ramchand
Nurse Manager

Clinical Indication

TEST(S)	UTILITY IN ASSESSING THE PATIENT AND MONITORING THERAPY
pH, pO ₂ , pCO ₂	Expected compromised respiratory and/or acid/base status
K ⁺	Expected hypo or hyperkalemia
Na ⁺ , Ca ⁺⁺ (ionized)	Expected hypo or hypernatremia and expected hypo or hypercalcemia
Hct	Expected abnormal oxygen-carrying capacity or RBC concentration
Glucose (only for ICN or semi-ICN with known abnormal glucose)	Expected hypo or hyperglycemia
Lactate	Expected sepsis and septic shock
tHb	Expected hemorrhage
O ₂ Hb, CoHb, MetHb	Expected carbon monoxide toxicity

Documentation

- All normal and abnormal results are documented in the patient's medical record.

Clinical Action

- If results are not within reference ranges, refer to the physician. Refer to ICC policy 3.8.8 for guidelines/protocol for abnormal result.