

Health Network Laboratories®
Critical Values
 Effective Date: August 28, 2018

Analyte	Low Limit	High Limit
Absolute Neutrophil Count (ANC)	≤0.5 thousand/μL (10 ⁹ /L)	
Acetaminophen		>150 μg/mL
Amikacin		Trough: >10 μg/mL
Ammonia		>100 μmol/L
Amylase		>300 units/L
Base Deficit, Cord Blood, Arterial		>15.9
Bilirubin, Total	Call all outpatient neonatal bilirubins	<1 day: >10.0 mg/dL 1 to <2 days: >13.0 mg/dL ≥2 days: >15.0 mg/dL Call all outpatient neonatal bilirubins
Calcium	<6.0 mg/dL	>13.0 mg/dL
Calcium, Ionized, Whole Blood	<0.75 mmol/L	>1.63 mmol/L
Calcium, Ionized, Serum (Out-patient only)	<0.75 mmol/L	>1.63 mmol/L
Carbamazepine, Total		>15 μg/mL
Carbamazepine, Free		>4.0 μg/mL
Carboxyhemoglobin		>20.0 %
CO ₂ content	<15 mEq/L	
Creatinine		≤2 years: ≥2.0 mg/dL >2 but <16 years: ≥3.0 mg/dL ≥16 years: ≥10.0 mg/dL
CSF Glucose	<40 mg/dL	>400 mg/dL
Differential(WBC)	<ul style="list-style-type: none"> ❖ Elevated band count ≥25% ❖ Presence of ≥3.0 immature (blast) cells (1st time only) Hematopathologist review to follow ❖ Microorganisms (Intracellular or Extracellular) present on peripheral blood smear 	
Digoxin		>2.5 ng/mL
Fibrinogen	<101 mg/dL	
Gentamicin		Peak: >12.0 μg/mL Trough: >2.0 μg/mL
Glucose	<50 mg/dL	>400 mg/dL
Hemoglobin	0-3 days: <12.0 g/dL 4-60 days: <9.0 g/dL >60 Days: <7.0 g/dL	0-3 days: >22.0 g/dL 4-60 days: >20.0 g/dL >60 Days: >21.0 g/dL
Heparin Level (Unfractionated)		>0.7 units/mL
Lactate		>4.0 mmol/L
Lithium		>2.0 mmol/L
Magnesium	<1.0 mg/dL	>5.0 mg/dL
Osmolality, serum	<250 mOsm/kg	>325 mOsm/kg

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Analyte	Low Limit	High Limit
pO ₂	<60 mmHg	
pCO ₂	<20 mmHg	>60 mmHg
pH	<7.20	>7.55
pH, Cord Blood, Arterial	<7.00	
Phenobarbital		>40 µg/mL
Phenytoin, Total		>25.0 µg/mL
Phenytoin, Free		>3.0 µg/mL
Phosphorus	<2.0 mg/dL	<1 year: >11.0 mg/dL ≥1 year: >8.0 mg/dL
Platelets	<30 thousand/µL (10 ⁹ /L)	>1,000 thousand/µL (10 ⁹ /L)
Procainamide + NAPA		>30 µg/mL
Potassium	< 3.0 mmol/L	> 6.0 mmol/L
INR		> 4.9
PTT		≥95.0 seconds* <i>* range varies with reagent lot</i>
Quinidine		>10.0 µg/mL
Salicylate		>30.0 mg/dL
Sodium	<120 mmol/L	>155 mmol/L
Sperm	If present in urine of females < 18 years and ALL female Nursing Home Residents.	
Theophylline		>25.0 µg/mL
Tobramycin		Peak: >12.0 µg/mL Trough: >2.0 µg/mL
TCO ₂	<15 mmol/L	>40 mmol/L
Troponin I		>0.78 ng/mL
Urea Nitrogen		0-16 years: >49 mg/dL Adult: >99 mg/dL
Uric Acid		>13.0 mg/dL
Valproic Acid, Total		>125 µg/mL
Valproic Acid, Free		>15 µg/mL
Vancomycin		Peak: >60.0 µg/mL Trough: >20.0 µg/mL
WBC		>30.0 thousand/µL (10 ⁹ /L)