



CRITICAL VALUES

HNL has established the following test results/ranges to be of a critical status. Therefore, any result outside of these parameters will be called/faxed to your office/facility immediately upon completion of testing.

If you desire to modify any of these ranges to better suit your needs, please contact your laboratory sales representative. They will provide you with a Critical Value Modification Request Form. All changes will remain in effect until modifications are requested and authorized.

Analyte	Low Limit	High Limit
Acetaminophen		> 150 µg/mL
Amikacin		Trough: > 10 µg/mL
Ammonia		> 100 µmol/L
Amylase		> 300 units/L
Base Deficit, Cord Blood, Arterial		>15.0
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	< 3.0 mg/dL	> 6.5 mg/dL
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	
CSF Protein		> 75 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	< 40 mg/dL	> 400 mg/dL
Hemoglobin	0-3 days: <12.0 g/dL 4-60 days: <9.0 g/dL >60 Days: <8.0 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

Revision Date: September 2015 (continued) 794 Roble Road • Allentown, PA • 18109-9110

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LABORATORIES[®]

CRITICAL VALUES

Analyte	Low Limit	High Limit
Lithium		> 2.0 mmol/L
Magnesium	< 1.0 mg/dL	> 5.0 mg/dL
Osmolality, serum	< 250 mOsm/kg	> 325 mOsm/kg
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* * range varies with reagent lot
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)
Absolute Neutrophil Count (ANC)	< 1.5 thousand/µL (10 ⁹ /L)	

* RANGE VARIES WITH REAGENT LOT

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