

CRITICAL VALUES

TEST	LOW LIMIT	HIGH LIMIT	Continue to Call
Hematology/Coagulation			
CSF Cell Count		>10/cm WBC or unusual cells	
WBC	<2 X 10 ³	>40 X 10 ³	
FIBRINOGEN	<100 mg/dL		
HEMOGLOBIN	<8.0		
HEMATOCRIT	< 24%		
PLATELET COUNT	< 50 X 10 ³ /uL		
PROTIME (on anticoagulants)		INR >5.0	
PTT		> 150 Sec	
Chemistry			
BILIRUBIN, NEWBORN (<2 Days) 3 Days – 2 weeks		> 13 mg/dL > 20 mg/dL	
CALCIUM, ADULT CALCIUM, CHILD	< 6.5 mg/dL < 6.5 mg/dL	> 12.9 mg/dL > 12.7 mg/dL	Continue to call
(CO ₂) Serum Bicarbonate	<11 mEq/L	>40 mEq/L	
GLUCOSE, ADULT GLUCOSE, NEWBORN (<7D) GLUCOSE, CSF	< 45 mg/dL < 30 mg/dL < 30 mg/dL	> 400 mg/dL > 300 mg/dL > 400 mg/dL	Continue to call
MAGNESIUM, ADULT MAGNESIUM, CHILD MAGNESIUM, (On Mag Sulfate Therapy)	< 1.2 mg/dL < 1.2 mg/dL < 1.2 mg/dL	> 5.9 mg/dL > 4.2 mg/dL > 7.5 mg/dL	
POTASSIUM, ADULT POTASSIUM, NEWBORN	< 3.0 mEq/L < 3.0 mEq/L	> 6.2 mEq/L > 6.5 mEq/L	Continue to call
SODIUM	< 125 mEq/L	> 150 mEq/L	
IONIZED CA ⁺⁺ (Serum or Whole blood)	<0.78 mmol/L	>1.58 mmol/L	Continue to call
LACTATE, (Whole Blood)		>2.5 mmol/L	Continue to call
Troponin T (SLCH Only)			Continue to call
Blood Gases			
Arterial Ph Newborn (Cord blood)	<7.10	>7.59	Continue to call
Arterial Ph	< 7.21	> 7.59	Continue to call
Arterial PCO ₂	< 21 mm Hg	> 60 mm Hg	
Arterial PO ₂ Arterial PO ₂ , CHILD	< 50 mm Hg < 45 mm Hg	>124 mm Hg	Continue to call

CRITICAL VALUES

Microbiology		
BLOOD CULTURE	Report All Positives	
GRAM STAIN	Report Positives on normally sterile site & surgical specimens	
CSF	Report All Positive Gram Stains, Cells(>10) & Cultures	
Blood Bank		
Direct Coombs	Report Positive on Newborns	

Critical Values for Therapeutic Drugs

TEST	HIGH LIMIT
Acetaminophen.	> 150 µg/mL at 4 hrs after dose
Carbamazapine	> 20 µg/mL
Digoxin	> 2.5 ng/mL
Gentamicin, Peak	> 12 µg/mL
Gentamicin, Trough	> 2.0 ng/mL
Lithium	> 2.0 mEq/L (> 5.0 potentially lethal)
Phenobarbital	> 60 µg/mL
Phenytoin	> 30 µg/mL
Salicylate, therapeutic dose	> 30 mg/dL
Tobramycin, peak	> 12 µg/mL
Tobramycin, trough	> 2.0 µg/mL
Theophylline	> 20 µg/mL
Valproic Acid	> 150 µg/mL
Vancomycin Trough	>40 µg/mL