

## Laboratory Critical Values List

Critical lab results are defined by the Medical Director as values that indicate the need for immediate intervention by the patient's physician or responsible healthcare provider. The following test results are considered critical lab values and will be called immediately.

Age groups are defined as follows: Neonatal < 30 days, Peds 30 days to 16 years, Adults > 16 years. If no age group is specified, the values listed belong to all age groups. (n/a = not applicable)

Analytes	Age Group	Critical Low	Critical High/*Toxic	Units
Acetaminophen		n/a	> 140	ug/mL
Alcohol (ETOH)		n/a	> 400	mg/dL
Amikacin	Trough	n/a	> 10*	ug/mL
	Peak	n/a	> 35*	ug/mL
Bicarbonate (CO2)	Adult/Peds	< 10	> 40	mEq/L
	Neonatal	< 15	> 40	mEq/L
Blood Cultures		Positive Smears (only the first positive smear is called)		
BUN	Neonatal	n/a	> 40	mg/dL
	Peds	n/a	> 70	mg/dL
	Adult	n/a	> 100	mg/dL
Calcium	Adult/Peds	< 6.0	> 13	mg/dL
	Neonatal	< 6.0	> 12	mg/dL
Calcium, Ionized	Neonatal	< 0.8	> 1.7	mmol/L
Clostridium perfringens		Gram Stains and Isolates (from sites not contaminated with normal bowel flora)		
Creatinine - Neonatal		n/a	> 2.0	mg/dL
CSF Gram Stain		Positive Results		
CSF Cryptococcus Antigen		Positive Results		
CSF Culture		Positive Results		
Cultures, Neonatal		Any Positive Result Including Urine > 1000 Colonies		
Cyclosporine - Trough		n/a	> 300	ug/mL
Digoxin			> 2.5	ng/dL
Dilantin (Phenytoin)			> 30	ug/mL
Fetal Fibronectin			Positive	
Fibrinogen		< 100	n/a	mg/dL
Gentamicin	Trough	n/a	> 2*	ug/mL
	Peak - Adult	n/a	> 12*	ug/mL
	Peak - Peds, Neonatal	n/a	> 12*	ug/mL
Glucose	Adult/Peds	< 40	> 450	mg/dL
	Neonatal	< 30	> 200	mg/dL
Hematocrit, Neonatal	0-24 hours	< 35.0	> 65.0	%
	>24 hours	< 25.0	> 70.0	%
Hemoglobin	Adult/Peds	< 7.0	> 20.0	gm/dL
	Neonatal	< 9.0	> 25.0	gm/dL
Hep Induced Platelet Aggreg			Positive	
Hep PF4 EIA Assay			Positive	
HIPA - Serotonin Release			Positive	
Intraocular Surgical Eye Specimens		Positive Gram Stains and Isolates		
Ketones w/Positive Glucose		n/a	> 80	mg/dL
Lactic Acid - Delnor			≥ 36.0	mg/dL
Lactic Acid - CDH			≥ 45.0	mg/dL
Lithium		n/a	> 1.5	mEq/L

Analytes	Age Group	Critical Low	Critical High/*Toxic	Units
Mg++		< 1.0	> 4.9	mg/dL
Phenobarbital		n/a	> 40	ug/mL
Phosphorus	Adult	< 1.0	n/a	mg/dL
	Peds/Neonatal	< 1.0	> 11	mg/dL
Platelet Count	Adult/Peds	< 20	> 1000	k/cmm
	Neonatal	< 50	> 1000	k/cmm
Porphobilinogen		n/a	Positive	
Potassium (K+)	Adult/Peds	< 2.8	> 6.2	mEq/L
	Neonatal	< 3.0	> 7.0	mEq/L
Protime (INR)		n/a	> 4.5	
PTT	Non-heparinized patient	n/a	> 85	sec
	Heparinized patient		> 240	sec
RSV, Neonatal (Rapid or Culture)		Any Positive Result		
Salicylate		n/a	> 30	mg/dL
Sodium	Adult	< 120	> 160	mEq/L
	Peds	< 125	> 160	mEq/L
	Neonatal	< 125	> 150	mEq/L
Theophylline		n/a	> 20	ug/mL
Tobramycin	Trough	n/a	> 2*	ug/mL
	Peak	n/a	> 12*	ug/mL
Total Bili - Neonatal		n/a	> 15	mg/dL
Tracheal Aspirate, Neonatal		Stat Gram Stains		
Transfusion Reaction - Work Up		Positive Results		
Triglyceride	Neonatal	n/a	> 200	mg/dL
Troponin (Delnor Only)		Call only initial result unless result doubles		> 0.100 ng/dL
WBC	Adult/Peds	< 2.0	> 50.0	k/cmm
	Neonatal	< 4.0	> 35.0	k/cmm

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