

CRITICAL VALUE TEST LIST

BLOOD GAS

Test Report Name	Age	Critical Low	Critical High	Units
Calcium, Ionized		≤ 0.78	≥ 1.57	mmol/L
pO ₂ (arterial blood only)		≤ 40		mm Hg
pCO ₂		≤ 20	≥ 70	mm Hg
pH		≤ 7.2	≥ 7.6	

MICROBIOLOGY

Test Report Name

Positive Blood Culture

Positive CSF Gram Stain, CSF Cultures, or CSF Cryptococcal Antigens

Positive Gram Stain or Culture from Intraocular Source (vitreous humor, aqueous humor)

HEMATOLOGY - HEMOSTASIS (COAG)

Test Report Name	Age	Critical Low	Critical High	Units
Activated Partial Thromboplastin Time (aPTT)			> 150	seconds
Fibrinogen		< 50		mg
Hematocrit	< 30 days	≤ 25		Vol %
Hematocrit	≥ 30 days	≤ 15		Vol %
Hemoglobin, Blood	< 30 days	< 8.0		g/dL
Hemoglobin, Blood	≥ 30 days	< 5.0		g/dL
Platelets, Blood	< 1 year	< 20,000		cu mm
Platelets, Blood	≥ 1 year	< 30,000		cu mm
Prothrombin Time			INR > 5.0	
Therapeutic Heparin Activity (Anti-Xa units)			≥ 2.0	U/mL
White Blood Cells, Blood			> 150,000	mL
Presence of Blast Cells (previously undiagnosed leukemia)				
Presence of Tumor or Blast Cells in Body Fluid				

CRITICAL VALUE TEST LIST

CLINICAL CHEMISTRY - SPECIAL CHEMISTRY - TOXICOLOGY				
Test Report Name	Age	Critical Low	Critical High	Units
Acetaminophen at 4 hrs			≥ 120	mg/L
Ammonia To be called once per 24 hrs.	< 18 years		> 250	μmol/L
Bilirubin, Total	< 30 days		≥ 18.0	mg/dL
Calcium		≤ 6.0	≥ 13.0	mg/dL
Carbamazepine			≥ 20	mg/L
Carbon Dioxide		≤ 10	≥ 45	mEq/L
CK-MB First elevation to be called. Another rise after 48 hours will be called again.			CK-MB ≥ 8.0 if CK ≤ 250 or	CK-MB μg/L CK U/L
			CK-MB ≥ 8.0 & RI ≥ 3.2 if CK >250	CK-MB μg/L CK U/L
Digoxin			> 2.4	ng/mL
Ethanol	< 5 years		Any Detectable Amount	mg/dl
Ethanol	5-15 years		> 100	mg/dl
Ethanol	> 15 years		> 250	mg/dl
Ethylene Glycol			> 12	mg/dL
Glucose, Blood	< 2 days	≤ 40	≥ 300	mg/dL
Glucose, Blood	≥ 2 days < 18 yrs	≤ 50	≥ 300	mg/dL
Glucose, Blood	≥ 18 years	≤ 50	≥ 500	mg/dL
Glucose, Urine	< 1 year		Positive	
Iron			≥ 350	μg/dL
Isopropanol			≥ 50	mg/dL
Ketones, Urine	< 1 year		Positive	
Lactic Acid			≥ 4.0	mmol/L
Lithium			> 1.5	mmol/L
Magnesium			≥ 8.0	mg/dL
Methanol			≥ 20	mg/dL
Phenobarbital			> 40	mg/L
Phenytoin			≥ 30	mg/L
Phosphorous		≤ 1.0		mg/dL

CRITICAL VALUE TEST LIST

<i>CLINICAL CHEMISTRY - SPECIAL CHEMISTRY - TOXICOLOGY</i>				
Test Report Name	Age	Critical Low	Critical High	Units
Potassium		≤ 2.7	≥ 6.5	mEq/L
Reducing Substances, Urine	< 1 year		Positive	
Salicylate			≥ 50	mg/dL
Sodium		≤ 120	≥ 160	mEq/L
Theophylline			≥ 25	mg/L
Troponin I First elevation will be called. Another rise after 7 days will be called again.			≥ 0.5	ng/mL
Troponin I ALERT VALUE First elevation only; for Emergency Department only.			≥ 0.1 and < 0.5	ng/mL
Uric Acid	≤ 10 years		≥ 10	mg/dL
Valproic Acid			≥ 180	mg/L