

Critical Values (Last updated 6/6/23)

Chemistry

Test Name	Result	
Ionized Calcium	< 0.91 mmol/L	> 1.49 mmol/L
Calcium	< 6.1 mg/dl	> 12.5 mg/dl
Glucose	< 50 mg/dl	> 400 mg/dl
CSF Glucose	< 41 mg/dl	
Urine Glucose (0-16 Years)		> 1000
Potassium	< 2.8 meQ/L	> 5.9 meQ/L
Sodium	< 121meQ/L	> 154 meQ/L
Lactic Acid, Plasma		> 2.0 mmol/L
Magnesium	< 1.1 mg/dl	> 4.9 mg/dl
Phosphorus	< 1.3 mg/dl	> 8.4 mg/dl
Troponin		> 0.29 ng/ml
Troponin, High Sensitivity *Delta from normal *Delta from abnormal		≥ 100 ng/L ≥ 22 ng/L change ≥ 20% change
Acetaminophen		> 149.9 mcg/ml
Carbamazepine		> 19.9 mcg/ml
Digoxin		> 2.4 ng/ml
Gentamycin		> 12.0 mcg/ml
Tobramycin		> 12.0 mcg/ml
Phenobarbital		> 59.9 mcg/ml
Phenytoin		> 39.9 mcg/ml
Salicylate		> 30 mg/dl
Theophylline		> 24.9 mcg/ml
Valproic Acid		> 199.9 mcg/ml
Vancomycin		> 40 mcg/ml

Pediatric Chemistry

Test Name	Result	
Neonatal Bilirubin		> 13.9 md/dl
Sodium (≤ 10 Years Old)	< 131 meQ/L	> 149 meQ/L
Glucose (≤ 16 Years Old)	< 50 mg/dl	> 400 mg/dl
Glucose (Infant, <30 days)	< 30 mg/dl	> 330 mg/dl

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Hematology

Test Name	Result	
Hemoglobin	< 6.01 gm/dl	
Hematocrit	< 18.01%	
International Normalized Ratio (INR)		< 4.49
Activated Partial Thromboplastin Time (APTT)		> 99 secs
Fibrinogen	< 101 mg/dl	
White Blood Cells	< 2.1 th/cmm	>34.9 th/cmm
Blast Cells	Any Present	
Malaria	Any Plasmodium	
Platelets	< 50.1 th/cmm	> 899 th/cmm

Microbiology

Test Name	Result
Blood Culture	Positive
CSF Gram Stain	Positive
CSF Culture	Positive
Body Fluid Gram Stain (other than urine)	Positive
India Ink	Positive
Meningitis-Encephalitis Panel	Positive

Respiratory

Test Name	Result	
	Venous	Arterial
pH	22 days or more: <7.19 or >7.61	<7.19 or >7.70
pCO2	22 days-13 Years: <22 or >65 mmHg ≥ 13 Years: <20 or >66 mmHg	<22 or >65 mmHg