

CRITICAL LABORATORY VALUES
Outreach Patients
August 5, 2022

TEST	UNIT OF MEASURE	CRITICAL VALUE
BLOOD GAS (ARTERIAL)		
Arterial pH	-	<7.200 or >7.600
Arterial pCO ₂	mmHg	>60
Arterial pO ₂	mmHg	<50
CHEMISTRY		
Acetaminophen	mcg/ml	>100
Bilirubin, Total (<2 month old patient)	mg/dL	>15.0
Calcium (Total)	mg/dL	<6.0 or >13.0
Carbamazepine	mcg/ml	>20
Digoxin	ng/ml	>3.0
Fetal Fibronectin	-	All positives
Gentamicin Random	mcg/ml	>12
Gentamicin Peak	mcg/ml	>12
Gentamicin Trough	mcg/ml	>2
Glucose (plasma/serum)	mg/dL	<50 or >500
Glucose, Tolerance Test (last timepoint)	mg/dL	>600
Lithium	mmol/L	>2.0
MB	ng/ml	>10.0
Magnesium	mg/dL	<1.0 or >5.0
Phenobarbital	mcg/ml	>60
Phenytoin (Dilantin), Free	mcg/ml	>3.0
Phenytoin (Dilantin), Total	mcg/ml	>40
Phosphorus	mg/dL	<1.1
Potassium (non-dialysis patient)	MEQ/L	<2.0 or >6.5
Potassium (dialysis patients)	MEQ/L	<2.0 or >7.5
Salicylate	mg/dL	>30
Sodium	MEQ/L	<120 or >160
Theophylline	mcg/ml	>40
Troponin T (5th generation)	ng/L	>= 100
Valproic Acid	mcg/ml	>150
Vancomycin Peak	mcg/ml	>80
Vancomycin Random	mcg/ml	>80
Vancomycin Trough	mcg/ml	>80
HEMATOLOGY		
WBC	10 ³ /uL	<0.5 or >100.0
Absolute Neutrophils	K/mm ³	<0.5
Organisms in Blood Smear	-	Intracellular organisms
Hemoglobin >12 years	g/dL	<6.0
Hemoglobin <12 years	g/dL	<7.0 or >22.5
Platelet count	10 ³ /uL	<20 or >1500

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COAGULATION		
ADAMTS13	%	<10
Anti-Factor Xa, UFH	IU/mL	>1.00
APTT	sec	>60.0
Factor Activity	%	<20
Fibrinogen	mg/dL	<75
Heparin Induced Platelet Antibody (HIPA)	-	Positive
INR	-	>5.0

INFECTIOUS DISEASE		
Smears and Rapid Tests	Cultures	Molecular
Positive CSF Gram Stain	Positive Blood Cultures	Positive CSF Molecular Test
Positive Joint Fluid Gram Stain	Positive CSF Cultures	Positive Bordetella pertussis PCR
Positive Sterile Body Fluid Gram Stain	Isolation of Mycobacterium tuberculosis	Positive M. tuberculosis PCR
Positive Tissue Gram Stain	Positive AFB Culture	Positive Group B Strep (Maternal)
Positive Cryptococcal Antigen on CSF	Positive Group B Strep Culture: Maternal	Positive Monkeypox
Positive AFB Smear	Listeria	
Positive Malaria Smear	Clostridium perfringens (any source)	
Positive Streptococci Group A	Zygomycete	
Positive Pneumocystis DFA	Positive Cornea Cultures	
RAPID/STAT HIV- any result	Positive for Bioterrorism Agents: Bacillus anthracis, Brucella sp., Francisella tularensis, Burkholderia pseudomallei, Yersinia pestis	

REVISION

Value	Change	Rationale
Added Monkeypox	New	Novel virus/ Public Health Emergency

APPROVALS

CompuNet Medical Director: August 4, 2022