

Critical Reference Range Guide

Serology

- Positive Cryptococcal antigen
- RPR reactive newborns

Microbiology

- Positive blood Cultures
- Positive CSF or sterile body fluid gram stain and/or culture (i.e., synovial, pleural, ascitic fluid)

Chemistry	Minimum Threshold	Maximum Threshold
Bilirubin Total, 0-1 month	-----	>15.0 mg/dL
Calcium, Ionized	<0.90 mmol/L	-----
Calcium, Total	<6.0 mg/dL	>14.0 mg/dL
CO2	<10.0 mmol/L	>40 mmol/L
Cortisol	<1 ug/dL	>100 ug/dL
Free T4	-----	≥6.00 ng/mL
Glucose, over 1 month	<50 mg/dL	>500 mg/dL
Glucose, 0-1 month	<50 mg/dL	>300 mg/dL
Magnesium	≤1.0 mEq/L	-----
Phosphorus	≤1.0 mg/dL	-----
Potassium, over 2 months	<2.5 mmol/L	>6.0 mmol/L
Potassium, 0-2 months	<2.5 mmol/L	>7.0 mmol/L
Sodium	<120 mmol/L	>155 mmol/L
hs-Troponin	-----	Females: ≥34 ng/L

		Males: ≥ 54 ng/L Unspecified: ≥ 34 ng/L
Hematology	Minimum Threshold	Maximum Threshold
Hemoglobin	<7 g/dL	-----
Hematocrit	<21%	>60%
Platelet	<30,000	>1 million
WBC	<1,000	>50,000
Absolute Neutrophil Count	<1,000/ul	-----
WBC, CSF	-----	>1,000
WBC, other fluids	-----	>10,000
Malaria	Positive	-----
Kleihauer-Betke	Negative or Positive	-----
Coagulation	Minimum Threshold	Maximum Threshold
Fibrinogen	<100 mg/dL	-----
INR	-----	≥ 5.0
PTT	-----	>100 sec
Arterial Blood Gas/Oximetry	Minimum Threshold	Maximum Threshold
CO	-----	>12%
Methemoglobin	-----	>5%
pCO ₂	<20 mm Hg	>70 mm Hg

pH	<7.2	>7.6
pO ₂ , over 2 months pO ₂ , 0-2 months	<40 mm Hg <40 mm Hg	----- >95 mm Hg
Urinalysis	Minimum Threshold	Maximum Threshold
Parasite or pathologic cast (WBC,RBC,waxy)	Positive	-----
Therapeutic Drugs	Minimum Threshold	Maximum Threshold
Acetaminophen	-----	>20 ug/dL
Alcohols	Any MeOH or IpOH	Any MeOH or IpOH
Digoxin	-----	>2.5 ng/mL
Gentamicin	-----	>10 ug/mL
Lithium	-----	>1.2 mmol/L
Ethylene Glycol	Positive	-----
Phenobarbital	-----	>80 ug/mL
Phenytoin (Dilantin)	-----	>40 ug/mL
Salicylate	-----	>30 ug/mL
Carbamazepine	-----	>20 ug/mL
Theophylline	-----	>25 ug/mL
Ttl Tricyclics	-----	>500 ng/mL
Valproic Acid	-----	>150 ug/mL
Vancomycin	-----	>35 ug/mL