

CHEMISTRY (Serum/Plasma/Whole Blood)		
Calcium, Ionized	<3.0 mg/dL	>7.0 mg/dL
Calcium	<6.0 mg/dL	≥13.0 mg/dL
Carbon Dioxide		
Neonates*	≤15 mEq/L	>40 mEq/L
All others	≤10 mEq/L	>40 mEq/L
Potassium		
Neonates*	<3.0 mEq/L	>7.0 mEq/L
All others	<2.7 mEq/L	>6.0 mEq/L
Sodium		
Neonates*	≤125mEq/L	≥150 mEq/L
All others	<120mEq/L	>160 mEq/L
Glucose		
Neonates*	<30 mg/dL	>300 mg/dL
All others	<40 mg/dL	>500 mg/dL
Phosphorus		
Neonates 0-3 months	≤4.0 mg/dL	
All others	<1.0 mg/dL	
Total Bilirubin (Neonates)*		>20.0 mg/dL
Magnesium	<1.2 mg/dL	≥9 mg/dL
Lactate		≥ 4 mmol/L
hsTroponin I		≥ 95 pg/mL
Female		≥ 120 pg/mL
Male		Delta ≥ 20 (+/-)
All		from OHR result

BLOOD GASES		
PCO ₂ (arterial)	<20 mm Hg	>70 mm Hg
PO ₂ (arterial only)	<40 mm Hg	
pH (arterial and venous)	<7.21	>7.59
Lactate (arterial and venous)		≥ 4 mmol/L

THERAPEUTIC DRUGS	
Digoxin	>2.0 ng/mL
Gentamicin	
Peak	>12.0 µg/mL
Trough	>4.0 µg/mL
Lithium	>2.00 mmol/L
Phenytoin, Total	>30.0 µg/mL
Salicylate	≥30.0 mg/dL
Theophylline	>20.0 µg/mL
Tobramycin	
Peak	>12.0 µg/mL
Trough	>2.5 µg/mL
Vancomycin	
Peak	>40 µg/mL
Trough	>30 µg/mL

HEMATOLOGY		
Hematocrit		
Obstetric	<20%	
Neonates*		>70%
All others	<18%	>60%
Hemoglobin		
Obstetric	<7.5 g/dL	
All others	<6.0 g/dL	
Plasma Free Hemoglobin		>70 mg/dL
Platelet Count		
Neonates*	<60,000TH/µL	
All others	<20,000 TH/µL	>1,000,000 TH/µL
WBC Count, Blood (first diagnosis) (leukemia patient)	<1.0 TH/µL	>50.0 TH/µL
		>100.0 TH/µL

COAGULATION	
Prothrombin Time (PT)	INR ≥ 5.0
Activated Partial Thromboplastin Time (APTT)	>130 seconds
Fibrinogen	<100 mg/dL
Heparin Anti- Factor Xa (Unfractionated Heparin)	≥1.1 IU/mL
Direct Thrombin Inhibitors	>90 PTT seconds

MICROBIOLOGY
Culture, Blood (<i>Bacterial, Acid Fast and Fungal</i>) – organism identification from liquid culture media bottle or growth on solid media
Culture, Spinal Fluid - positive Gram stain or growth on culture
Culture, Sterile Body Fluid (<i>Peritoneal, Synovial, Pericardial, Pleural, Bone Marrow</i>)-positive Gram stain or growth on culture
Malaria – positive/detected

*Neonates: 0-12 months

Molecular Diagnostics
HSV PCR, Spinal Fluid (new diagnosis) - positive

REFERENCE LAB	
Methotrexate	>10.00 µmol/L
Ethylene Glycol	>20 mg/dL