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Test	Patient Age	Critical Values
<b>Clinical Chemistry</b>		
Bilirubin, Total	0 to 7 days 1 week to 1 month	≥ 15 mg/dL ≥ 20 mg/dL
Calcium	All	< 5 mg/dL > 13 mg/dL
CO <sub>2</sub> , total, serum ("Bicarbonate")	All	≤ 10 mmol/L
Glucose	All	≤ 50 mg/dL ≥ 500 mg/dL
pH, arterial or venous	All	≤ 7.2
Potassium	All All	< 2.5 mmol/L > 6.5 mmol/L
Sodium	All	≤ 120 mmol/L ≥ 160 mmol/L
Troponin	All	≥ 0.1 ng/mL
BG/Hematocrit	0 to 6 months	< 20%
BG/Hemoglobin	All	< 6 gm
HIV AG/Ab*	All	Detected
<p>* Inpatient HIV Ag/Ab "detected" screen results should be called 24/7 to an appropriate provider. Notification for outpatients should be pursued during the clinic's normal business hours. If a result is obtained outside the clinic's normal business hours, verify the result and request a call using the Call Box feature in the LIS for the Client Services Representative to pursue notification. When calling any "Detected" HIV Ag/Ab results, inform the provider that the result is preliminary and will be sent to microbiology for confirmation.</p>		
<b>Therapeutic Drugs</b>		
Acetaminophen		≥ 50 mcg/mL
Amikacin		≥ 35 mcg/mL
Carbamazepine		≥ 18 mcg/mL
Digoxin		≥ 2.5 ng/mL
Ethanol		≥ 80 mg/dL
Gentamicin		≥ 10 mcg/mL
Lithium		≥ 1.5 meq/L
Phenobarbital		≥ 50 mcg/mL
Phenytoin		≥ 30 mcg/mL
Salicylate		≥ 40 mg/mL
Tobramycin		≥ 10 mcg/mL
Valproic Acid		≥ 175 mcg/mL
Vancomycin		≥ 50 mcg/mL

## Hematology

APTT	All	> 100 seconds
Absolute neutrophil count	All outpatients	< 0.500 x 10 <sup>3</sup> /uL
Absolute lymphocyte count	Neonates (<28 days)	< 2.5 x 10 <sup>3</sup> /uL
Hematocrit	0 to 6 months	< 20 %
Hemoglobin	All	< 6 gm/dL
INR	All	≥ 7
Platelets	0 to 6 months and all outpatients 6 months to adult and all outpatients	< 20,000 /uL < 10,000 /uL
WBC	All outpatients	> 40,000 /uL

## Clinical Microbiology

Acid-fast culture and/or smears		All positives
Blood culture		All positives
CSF Cryptococcal antigen		All positives
CSF Cryptococcal culture		All positives*
CSF Gram stain, culture, or PCR		All positives

\*Unless the patient had a positive Cryptococcal antigen from the same specimen.

## Blood Center

Positive IgG Direct Antiglobulin Test (DAT) on a cord specimen	
Woman who is a candidate for Rh Immune Globulin	
Positive Fetal Screen Rosette Test	
Positive Transfusion Reaction Results	
Blood Type Discrepancy or Positive Antibody Screen on a patient in OR	
Unexpected incompatible crossmatch	
Twofold increase in titer on a pregnant woman with a clinically significant antibody	