

<b>Laboratory Critical Values</b>				
<b>Test Description</b>	<b>Age Specific</b>	<b>Lower Limit</b>	<b>Upper Limit</b>	<b>Units</b>
AFB Smear and Culture			Positive	
Acetaminophen			>120	mcg/ml
Alcohol (Ethanol)			>300	mg/dl
Arterial Blood Gases	pH	<7.2	>7.6	
	pO2	<40 if HHb <15		mmHg
	pCO2	<25 if pH <7.38 or >7.46	>60 if pH <7.38 or >7.46	mmHg
Bilirubin	0 - 1 day		>10.0	mg/dl
	2 - 3 days		>15.0	mg/dl
	4 - 30 days		>18.0	mg/dl
Blood Cultures			Positive	
Calcium	0-18 years	<8.0	>12.0	mg/dl
	> 18 years	<6.5	>12.0	mg/dl
Digoxin			>2.0	ng/ml
Gentamicin Peak & Random			>10.0	mcg/mL
Gentamicin Trough	0 – 30 days		>1.0	mcg/mL
	> 30 days		>2.0	mcg/mL
Glucose	0 - 30 days	<30	>200	mg/dl
	> 30 days	<50	>500	mg/dl
Gram Stain (Sterile body fluids)			Positive	
Gram stain or culture of a transfusion reaction workup			Positive	
Hematocrit	0 – 30 days	<30	>65	%
	>30 days	<20	>59	%
Hemoglobin	0 – 30 days	<10.0	>22.0	g/dl
	>30 days	<7.0	>19.0	g/dl
Heparin PF4			Positive	
INR			>5	
Lactic Acid			> 4.0	mmol/L
Lithium			>2.0	meq/L
Magnesium – FBCMG only		<1.0	>8.0	mg/dl
Magnesium		<1.0	>4.7	mg/dl
Osmolality serum		<250	>350	mOsm/kg

<b>Policy:</b> Critical Values / Life Altering Values	<b>Policy #:</b> LB40100-0080
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Peripheral Blood Smear		Protozoa, filaria, hemoflagellates, intracellular bacteria, or intracellular fungi		
Phenobarbital			>50.0	mcg/mL
Phenytoin (Dilantin)			>30.0	mcg/mL
Phosphorus		<1.0		mg/dl
Platelets	0 - 30 days	<50	>1,000,000	109/L
	>30 days	<20	>1,000,000	109/L
Post transfusion DAT or evidence of hemolysis of a transfusion reaction workup.	Positive		Post transfusion DAT or evidence of hemolysis of a transfusion reaction workup.	Positive
Potassium	0 – 4 days	<2.5	>6.5	mmol/L
	5 days-18 years	<3.0	>6.5	mmol/L
	>18 years	<3.0	>6.0	mmol/L
PTT			>240	sec
Serotonin Release Assay		Positive or Negative result must be called		
Sodium	0 - 18 years	<125	>150	mmol/L
	>18 years	<120	>155	mmol/L
Tegretol (Carbamazepine)			>15.0	mcg/mL
Theophylline			>20.0	mcg/mL
Tobramycin Peak & Random			>10.0	mcg/mL
Tobramycin Trough			>2.0	mcg/mL
High Sensitive Troponin			>=50	ng/L
Valproic Acid			>150	mcg/mL
Viral cultures or antigens, or PCR for CSF, ME Panel CSF-PCR			Positive	
WBC	0 - 30 days	<5.0	>35.0	109/L (mm3)
	>30 days - 18 years	<3.0	>30.0	109/L (mm3)
	>18 years	<1.0	>100	109/L (mm3)

## Laboratory Alert Values

\*Alert values obtained after normal business hours are called the next business day

Test Description	Age Specific	Lower Limit	Upper Limit	Units
Clostridium Difficile			Positive	
FLU (ERIP & inpatients)			Positive	
GI Panel			Positive	
Glucose (Inpatients)	>15 years old	50	69	mg/dl
Ionized Calcium		<0.8	>1.54	
Nasal MRSA			Positive	
Pertussis			Positive	
Positive Cultures: Salmonella, Shigella, Campylobacter, and E. Coli 0157:H7, Neisseria Meningitidis, Haemophilus Influenzae invasive Disease and Vancomycin Resistant Staphylococcus Aureus			Positive	
Resistant Organisms Requiring Patient Isolation: Vancomycin Resistant Enterococcus (VRE), Extended Spectrum Beta lactamase producers (ESBL), Multi-drug Resistant Actinobacter, Extensively Drug Resistant Enterobacteriaceae, Carbapenem Resistant Enterobacteriaceae (CRE, and Carbapenemase Producing Enterobacteriaceae (CPE)			Positive	
Respiratory Panel (ERIP & inpatients)			Positive	
RSV (ERIP & inpatients)			Positive	
Vancomycin Peak & Random			>60.0	mcg/ml
Vancomycin Trough	0 – 30 days		>10.0	mcg/ml
	>30 days		>20.0	mcg/ml