

**FLORIDA HOSPITAL LABORATORY CRITICAL VALUES**

<b>TEST</b>	<b>ADULT (over 12 years)</b>		<b>PEDIATRIC (1 month - 12 years)</b>		<b>NEONATAL (Birth - 1 month)</b>		<b>UNITS</b>
	<b>Values Equal to or Below</b>	<b>Values Equal to or Above</b>	<b>Values Equal to or Below</b>	<b>Values Equal to or Above</b>	<b>Values Equal to or Below</b>	<b>Values Equal to or Above</b>	
<b>Arterial Blood Gases</b>							
pH	7.199	7.601	7.199	7.601	7.199	7.601	
pCO2	19.9	60.1	19.9	60.1	19.9	60.1	mmHg
pO2	59.9	NA	59.9	NA	59.9	NA	mmHg
HbO2	84.9	NA	84.9	NA	84.9	NA	%
<b>Capillary Blood Gases</b>							
pH	7.199	7.601	7.199	7.601	7.199	7.601	
pCO2	19.9	60.1	19.9	60.1	19.9	60.1	mmHg
<b>Chemistry</b>							
Sodium	120	155	125	155	125	155	mmol/L
Potassium	3.0	6.0	2.8	6.0	3.0	6.0	mmol/L
CO2	9	41	9	41	9	41	mmol/L
Calcium	6.0	14.0	6.0	12.0	6.0	12.0	mg/dl
Glucose	50	400	30-60 days = 60 61+ days = 50	30-60 days= 200 61+ days = 400	0-1 day = 45 2-6 days = 50 7-29 days = 60	0-1 day = 200 2-6 days = 200 7-29 days = 200	mg/dl mg/dl mg/dl
Bilirubin, Total	NA	NA	NA	NA	NA	0-2 days = 12.0 3-11 days = 14.0 12-14 days =10.0	mg/dl mg/dl mg/dl
Magnesium	1.0	5.0	1.0	5.0	1.0	5.0	mg/dl
<b>Cardiac</b>							
CKMB (initial value)	NA	6.8	NA	6.8	NA	6.8	ng/ml
Troponin (initial value)	NA	0.10	NA	0.10	NA	0.10	ng/ml
<b>DRUG LEVELS:</b>							
Acetaminophen	NA	150	NA	150	NA	150	mcg/ml
Amikacin Random	NA	40	NA	40	NA	40	mcg/ml
Amikacin Peak	NA	40	NA	40	NA	40	mcg/ml
Amikacin Trough	NA	10	NA	10	NA	10	mcg/ml
Carbamazepine	NA	12	NA	12	NA	12	mcg/ml
Digoxin	NA	2.5	NA	2.5	NA	2.5	ng/ml
Ethyl Alcohol	NA	300	NA	300	NA	300	mg/dl
Gentamicin Random	NA	15.0	NA	15.0	NA	15.0	mcg/ml
Gentamicin Peak	NA	15.0	NA	15.0	NA	15.0	mcg/ml
Gentamicin Trough	NA	2.0	NA	2.0	NA	2.0	mcg/ml
Lithium	NA	1.6	NA	1.6	NA	1.6	mmol/L
Phenobarbital	NA	65.0	NA	65.0	NA	65.0	mcg/ml
Phenytoin	NA	30.0	NA	30.0	NA	30.0	mcg/ml

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Phenytoin- Free	NA	3.0	NA	3.0	NA	3.0	mcg/ml
Salicylate	NA	50.0	NA	50.0	NA	50.0	mg/dl
Theophylline	NA	20.0	NA	20.0	NA	20.0	mcg/ml
Tobramycin Random	NA	15.0	NA	15.0	NA	15.0	mcg/ml
Tobramycin Peak	NA	15.0	NA	15.0	NA	15.0	mcg/ml
Tobramycin Trough	NA	2.0	NA	2.0	NA	2.0	mcg/ml
Valproic Acid	NA	150	NA	150	NA	150	mcg/ml
Vancomycin Random	NA	50.0	NA	50.0	NA	50.0	mcg/ml
Vancomycin Peak	NA	50.0	NA	50.0	NA	50.0	mcg/ml
Vancomycin Trough	NA	25.0	NA	20.0	NA	20.0	mcg/ml
<b><u>TEST</u></b>	<b><u>ADULT (over 12 years)</u></b>		<b><u>PEDIATRIC (1 month - 12 years)</u></b>		<b><u>NEONATAL (Birth - 1 month)</u></b>		<b><u>UNITS</u></b>
	<b>Values Equal to Below</b>	<b>Values Equal to or Above</b>	<b>Values Equal to Below</b>	<b>Values Equal to or Above</b>	<b>Values Equal to Below</b>	<b>Values Equal to or Above</b>	
<b>Coagulation</b>							
PT	NA	60	NA	60	NA	20	sec
INR (Outpatients)	NA	4.0	NA	4.0	NA	NA	
aPTT	NA	140	NA	140	NA	60	sec
Fibrinogen	99	NA	99	NA	99	NA	mg/dl
<b>Hematology</b>							
WBC	1.0	100.0	2.0	40.0	5.0	40.0	X 10 <sup>3</sup> /mm <sup>3</sup>
Hemoglobin	7.5	NA	7.5	NA	9.9	NA	g/dl
Hematocrit	22.0	NA	22.0	65.0	30.0	65.0	%
Platelet	20	1,000	50	800	80	800	X 10 <sup>3</sup> /mm <sup>3</sup>
<b>Blood Bank:</b>							
All Hemolytic Transfusion Reactions							
All Transfusion Reactions due to bacterial contamination							
<b>Pathology:</b>							
Intraoperative Frozen Section Diagnosis							

Microbiology Critical Values	
Test	Critical Value
Gram Stain from Blood	Positives results are called within < 15 minutes
CSF	
AFB Smear	
Bordetella pertussis DFA	
Cryptococcal Antigen	
Neonatal cultures (any source)	
Antigen Detection Tests for: Adenovirus, RSV, Rotavirus (Birth - 5 Years for the above)	
Microbiology Significant Findings	
Test	Significant Finding
CSF Culture	Positive results are called by end of shift in which identification is confirmed.
Stool Culture for: Salmonella, Shigella, Campylobacter, E.Coli 0157, Yersinia, Vibrio	
Cultures and/or Molecular Probes for Neisseria gonorrhoeae Chlamydia trachomatis	
Systemic fungus cultures for Coccidioides immitis, Paracoccidioides brasiliensis, Blastomyces dermatitidis, Histoplasma capsulatum	
Bioterrorism agents: Bacillus anthracis, Brucella spp. Burkholdera mallei, Francisella tularensis, Yersinia pestis	
Pandemic Associated Findings	The initial positive results are called by end of shift in which identification is confirmed.
Multidrug-Resistant Organisms (MDROs)	
Clostridium difficile (CDT)	
Methicillin-Resistant Staphylococcus (MRSA)	
Vancomycin-Resistant Enterococci (VRE)	
Multiple Drug-Resistant Gram Negative Bacteria	