

FLORIDA HOSPITAL LABORATORY

Microbiology Critical Values

Test	Critical Value
Gram Stain from Blood 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)	Positives results are called within < 15 minutes

Microbiology Significant Findings

Test	Significant Finding
CSF Culture 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	Positive results are called by end of shift in which identification is confirmed.
Pandemic Associated Findings Multidrug-Resistant Organisms (MDROs) Clostridium difficile (CDT) Methicillin-Resistant Stahylococcus (MRSA) Vancomycin-Resistnat Enterococci (VRE) Multiple Drug-Resistant Gram Negative Bacteria	The initial positive results are called by end of shift in which identification is confirmed.

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TEST	ADULT (over 12 years)		PEDIATRIC (1 month - 12 years)		NEONATAL (Birth - 1 month)		UNITS
	Values Equal to or Below	Values Equal to or Above	Values Equal to or Below	Values Equal to or Above	Values Equal to or Below	Values Equal to or Above	
Arterial Blood Gases							
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	%
Capillary Blood Gases							
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
Chemistry							
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	7.0	14.0	7.0	12.0	7.0	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
Cardiac							
CKMB (initial value)	NA	6.4	NA	6.4	NA	6.4	ng/ml
Troponin (initial value)	NA	0.5	NA	0.5	NA	0.5	ng/ml
DRUG LEVELS:							
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
<u>TEST</u>	<u>ADULT (over 12 years)</u>		<u>PEDIATRIC (1 month - 12 years)</u>		<u>NEONATAL (Birth - 1 month)</u>		<u>UNITS</u>
	Values Equal to Below	Values Equal to or Above	Values Equal to Below	Values Equal to or Above	Values Equal to Below	Values Equal to or Above	
Coagulation							
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
Hematology							
WBC	1.0	100.0	2.0	40.0	5.0	40.0	X 10 ³ /mm ³
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 ³ /mm ³
Blood Bank:							
All Hemolytic Transfusion Reactions							
All Transfusion Reactions due to bacterial contamination							