



UNIVERSITY HEALTHCARE

POLICY #: UH LAB-ADM 009

EFFECTIVE DATE: 2/15/2017

REVISED DATE(S): 2/15/2017;
3/6/17

REVIEWED DATE(S):

Laboratory Critical Values

The following are a list by department of **Critical (Panic) Values**:

CHEMISTRY

TEST	LESS THAN	GREATER THAN	UNITS
Glucose 0-7days	40	200	mg/dL
Glucose > 7 days	50	400	mg/dL
Glucose, CSF	25		mg/dL
Sodium	121	154	mmol/L
Potassium 0-31 days	2.6	7.9	mmol/L
Potassium >31 days	2.8	5.9	mmol/L
CO2	11	40	mmol/L
Calcium	7.0	12.0	mg/dL
Lactic Acid		2.0	mmol/L
Phosphorus	1.6		mg/dL
Magnesium	1.0	4.0	mg/dL
Neonatal Bilirubin		15.0	mg/dL
Total Protein, CSF		100	mg/dL
Troponin I		0.06	ng/mL
TDMs			
Acetaminophen 4hr post dose		150	ug/mL
Amikacin Peak		35.0	ug/mL
Trough		8.0	
Carbamazepine		15.0	ug/mL
Digoxin		2.5	ng/mL
Gentamicin Peak		10.0	ug/mL
Random		10.0	
Trough		2.0	
Lithium		2.0	mmol/L
Phenobarbital		40.0	ug/mL
Phenytoin		20.0	ug/mL
Salicylate		30.0	mg/dL
Theophylline		20.0	ug/mL
Tobramycin Peak		12.0	ug/mL
Random		12.0	ug/mL
Trough		2.0	ug/mL
Valproic Acid		150.0	ug/mL
Vancomycin Peak		40.0	ug/mL
Random		40.0	
Trough		20.0	



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RESPIRATORY THERAPY

TEST	LESS THAN	GREATER THAN	UNITS
pH	7.20	7.60	
PCO2 Arterial	20	70	mmHg
PCO2 Capillary	20	65	
PO2 0-31 days	50	100	mmHg
PO2 >31 days	50		mmHg
Carboxyhemoglobin COHB		20.0	%
Methemoglobin Met Hb		10.0	%

PATHOLOGY

1. Surgical Frozen Sections, Intra-operative Cytologies, and Gross Examination reports may be given directly to the physician by the pathologist, in person or by telephone. Hand written reports may also be sent directly to the operating room. Turnaround time is recorded on the Surgical Frozen Section log.
2. Results of surgical pathology and/or cytology cases that are deemed significant/unexpected findings at the time of the case review are communicated directly to the submitting provider or nurse involved in the care of the patient and recorded in the pathology report.



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HEMATOLOGY/ COAGULATION

TEST	LESS THAN	GREATER THAN	UNITS
WBC 0-4 yr	2.0	43.0	x 10 ³
WBC >4 yr	2.0	30.0	x 10 ³
Hemoglobin 0 -14 days	7.0	30.0	g/dL
Hemoglobin 15 days- 3 mo	7.0	28.0	g/dL
Hemoglobin > 3 mo	7.0	20.0	g/dL
Platelet Count	30	1000	x 10 ³
Blasts	ANY		
Fibrinogen	100		mg/dL
APTT		100	seconds
Protime -INR		5	
INR, finger stick		5	



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MICROBIOLOGY

TEST/SITE	RESULT
Blood	Gram stain of positive culture MRSA positive by PCR *Follow-up call when the following organisms are isolated: <ul style="list-style-type: none"> • Campylobacter jejuni • Salmonella • Shigella • E.coli 0157 or Shiga toxin positive • Neisseria meningitidis • Haemophilus influenza • Streptococcus pneumoniae
CSF	Positive smear or culture Any Positive Biofire Meningitis result
Stool or other sterile site	Salmonella (any species) Escherichia coli 0157 or Shiga toxin positive Inpatients only: <ul style="list-style-type: none"> • Clostridium difficile
Sputum or Nasopharyngeal	Inpatient only: <ul style="list-style-type: none"> • Positive respiratory panel result • Positive Influenza (Flu) • Positive RSV
Culture - All sources	Mycobacterium (any species) Vancomycin resistant Staph species Bioterrorism organisms Corynebacterium diphtheria Shigella (any species) Inpatients only: <ul style="list-style-type: none"> • Vancomycin resistant Enterococcus (VRE) • Methicillin resistant Staph aureus (MRSA) • Carbapenemase resistant Enterbacteriaceae (CRE) • ESBL+ organisms
Synovial Fluid	Positive Stain/Culture



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BLOOD BANK

TEST	RESULT
Crossmatch	<ul style="list-style-type: none"> Unable to obtain compatible blood Incompatible crossmatch noted after emergency issue of Uncrossmatched Unit
Transfusion Reaction	Indication of hemolytic transfusion reaction/ TRALI, Bacterial contamination or other serious adverse events related to the transfusion, the interpretation shall be reported to the patient's physician immediately
Culture on issued apheresis platelet or blood component	Positive
Fetalscreen	Positive *Follow up call after the Kleihauer Betke results are received.
Recalls transfused units due to presence of pathogen	All
Specimen discrepancy	Wrong blood in tube identified with comparison to historical type



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RETIREMENT DATE:

DISTRIBUTION:

- BMC General Lab Manual
- JMC Laboratory Administration Manual and Online Policy Manager

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APPROVED BY: _____
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REVIEWED BY:	DATE:

REVISION (ITEM):	PAGE	DATE	REVISED BY:
This list replaces the lists found in BMC GL IV .02 and JMC LAM 010. In addition, this list supersedes any and all individual department lists			
Microbiology: Added Blood—Streptococcus pneumoniae. Added Synovial Fluid—Positive Stain/Culture	Page 4	3/6/17	TW
Corrected units for Salicylate	Page 1	3/20/17	GC
Added Positive RSV & ESBL for inpatients Removed B. pertussis (On respiratory panel)	Page 4	12/21/17	TH