

<b>Policy #:</b>	306 (PLH-306-13)	<b>Effective Date:</b>	9/30/2004	<b>Reviewed Date:</b>	8/1/2016
<b>Subject:</b>	CRITICAL VALUES-COMMONLY ORDERED TESTS				
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## CRITICAL VALUES – COMMONLY ORDERED TESTS

	CRITICAL LOW	CRITICAL HIGH	CALL REPEAT CRITICAL OR COMMENT PREVIOUS
<b>HEMATOLOGY</b>			
HGB	< 6 g/dl	> 20 g/dl	PREVIOUS
HGB, NEONATAL	< 10.0g/dl	>22.0g/dl	PREVIOUS
HCT	< 18 %	>60% female >66%male	PREVIOUS
HCT, NEONATAL	<30%	>70%	PREVIOUS
WBC	< 2,000 nL	> 30,000 nL	PREVIOUS
PLT	≤ 40,000 nL	> 1,000,000 nL	PREVIOUS
PLT, NEONATAL	≤ 50,000 nL	> 1,000,000 nL	PREVIOUS
BLAST		ANY	PREVIOUS
WBC (CSF)		≥ 50 /cumm	
<b>COAGULATION</b>			
PFA		call as critical only if both phases are abnormal	
APTT		> 115 sec	YES

PT		> 4.5 INR	YES
PT, NEONATAL		>2.5 INR	YES
Fibrinogen	<125mg/dl	>900mg/dl	Yes
<b>CHEMISTRY</b>	<b>CRITICAL LOW</b>	<b>CRITICAL HIGH</b>	CALL REPEAT CRITICAL OR COMMENT PREVIOUS
ARTERIAL BLOOD PH	≤ 7.30	≥ 7.60	YES
ARTERIAL PCO2	≤ 20mmHg	≥ 50 mmHg	YES
ART. PCO2, NEONATAL	≤25 mm Hg	≥ 60 mmHg	YES
ARTERIAL PO2	≤ 55 mmHg		YES
ART. PO2, NEONATAL	≤ 50 mmHg	≥120 mm Hg	YES
BILIRUBIN, TOTAL NEONATAL		≥15 mg/dl	PREVIOUS
BUN		≥100 mg/dl	PREVIOUS
BUN, NEONATAL		>50 mg/dl	PREVIOUS
CALCIUM, SERUM	≤ 7 mg/dl	≥ 12.5 mg/dl	YES
CREATININE		≥ 5 mg/dl	PREVIOUS
CREATININE, NEONATAL		≥ 2 mg/dl	PREVIOUS
GLUCOSE, CSF	≤ 20 mg/dl		YES
GLUCOSE, SERUM	≤ 50 mg/dl	≥ 500 mg/dl	YES
GLUCOSE, SERUM, NEONATAL	≤45 mg/dl	≥150 mg/dl	YES
GLUCOSE, SERUM, PEDIATRIC	≤ 50 mg/dl	≥500 mg/dl	YES
LACTIC ACID		≥ 5.0 mmol/L	YES
MAGNESIUM	≤ 1.1 mg/dl	≥ 4.1 mg/dl	YES
PHOSPHORUS, SERUM	≤ 1.4 mg/dl	≥ 10.1 mg/dl	YES
POTASSIUM, SERUM	≤ 3.0 mmol/L	≥ 6.2 mmol/L	YES
SODIUM, NEONATAL	≤ 130 mmol/L	≥ 160 mmol/L	YES
SODIUM, SERUM	≤ 120 mmol/L	≥ 159 mmol/L	
IONIZED CALCIUM	≤ 3.0 mg/dl	≥ 7.0 mg/dl	YES
TROPONIN I (Vitros-Core Lab)		≥ 0.12 ng/mL	<b>PREVIOUS</b>

TROPONIN I (iSTAT) at Affiliates		≥ 0.08 ng/mL	PREVIOUS
HbsAg		POSITIVE	PREVIOUS
AHBcM		POSITIVE	PREVIOUS
AHAV-M		POSITIVE	PREVIOUS
AHCV		POSITIVE	PREVIOUS
<b>THERAPEUTIC DRUGS</b>	<b>CRITICAL LOW</b>	<b>CRITICAL HIGH</b>	CALL REPEAT CRITICAL OR COMMENT PREVIOUS
ACETAMINOPHEN (4 HRS after ingestion)		≥ 150 mcg/ml	Previous
AMIKACIN, TR		≥ 8.0 mcg/ml	Previous
AMIKACIN, PK		≥ 30 mcg/ml	Previous
CARBAMAZEPINE		≥ 16 mcg/ml	Previous
DIGOXIN		≥ 2.0 ng/ml	Previous
DILANTIN		≥ 30 mcg/ml	Previous
GENTAMICIN, TR		≥ 2.0 mcg/ml	Previous
GENT. TROUGH, NEONATAL		≥ 1.0 mcg/ml	Previous
GENTAMICIN, PK		≥ 24.0 mcg/ml	Previous
LIDOCAINE		≥ 7.0 mcg/ml	Previous
PHENOBARBITAL		≥ 60 mcg/ml	Previous
THEOPHYLLINE		≥ 20 mcg/ ml	Previous
TOBRAMYCIN, TR		≥ 2.0 mcg/ml	Previous
TOBRAMYCIN, PK		≥ 24.0 mcg/ml	Previous
VANCOMYCIN, TR		≥ 23.0 mcg/ml < 10..0 mcg/ml	Previous
VANCOMYCIN, TR, NEONATAL		≥ 20.0 mcg/ml	Previous
VANCOMYCIN, PK		≥ 40.0 mcg/ml	Previous
VALPROIC ACID		≥ 150 mcg/ml	Previous
<b>IMMUNOLOGY</b>	<b>CRITICAL LOW</b>	<b>CRITICAL HIGH</b>	CALL REPEAT CRITICAL OR COMMENT PREVIOUS

HEPARIN AB	BORDERLINE or POSITIVE		YES
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### Microbiology

**Critical or Significant values:** patient results are called to the physician or primary care giver as soon as results are available.

A. **Critical value** patient results include:

1. Positive direct examination (gram stain or culture) from Cerebrospinal fluid
2. Positive blood culture

**The above Critical values will be called within 2 hours from completion of gram stain of Inpatients, REG ER and discharged from REG ER by Microbiology staff. The above Critical values will be called with gram stain results of Affiliates, Outpatients, Outreach clients, physician offices, discharged inpatients/outpatients (not ED or ED physicians) by Client Response within 30 minutes or if after hours the positive result will be called in the AM.**

B. **Significant** patient results include:

1. Positive STAT gram stain results.
2. Negative STAT gram stain results from the Operating Room.
3. Positive blood culture on a patient that had a subsequent previous positive blood culture notified but the collection date and time is greater than 48 hours apart.
4. Positive Direct tube Coagulase on blood cultures.
5. Positive direct examination from
  - a. Joint fluid
  - b. Pericardial fluid
  - c. Pleural fluid
  - d. Peritoneal fluid
6. Positive acid fast stain or mycobacteria culture result.
7. All stat procedures requested to be telephoned.
8. Culture of Enteric pathogens (Salmonella, Shigella, Campylobacter, E.coli 0157).
9. Systemic fungi such as Histoplasma; Blastomyces; and Cryptococcus spp. from any source.
10. Group B Beta Streptococcus culture/positive on inpatient pregnant females (that have delivered) and infants.
11. Positive Streptococcus (gpc in chains) and GNR gram stain/culture of placenta cultures.
12. Positive Neisseria meningitidis/gonorrhoeae cultures.
13. Clostridium perfringens or Clostridium septicum isolated from blood or other sites.
14. Parasites.
15. Positive Antigen Tests on CSF. (Cryptococcus neoformans antigen and Streptococcus pneumoniae antigen).
16. Isolation of any organism that can be associated with a bioterrorism incident (ex. Anthrax, Yersinia pestis, etc.).
17. Positive Bordetella PCR and/or culture.
18. Positive Viral culture on Bronchial lavage, Bronchial washing or Bronchial brushes.
19. Any fungi isolated in a fine needle aspirate.
20. Any bacteria isolated from a heart valve.
21. Positive Legionella DFA.

### Molecular

Positive C. difficile by PCR and Stool Pathogen Panel (Salmonella, Shigella, Campylobacter, and Shiga-Toxin producing E. coli) by PCR are significant values and are called to the healthcare provider and faxed.

Positive Group B strep by PCR is a significant value and results are faxed to the healthcare provider. Additionally, if the patient location is Labor and Delivery or admit in-house, results are called and faxed to the healthcare provider.

HSV by PCR in CSF results are significant values and all positive results are called to the healthcare provider. All results are also faxed.