



Table of Critical Lab Values	Lab General 10A
Pathology and Laboratory Medicine Lab General	Effective Date: 9/2018

Section: Chemistry

For inpatients, once 3 consecutive critical values for the same analyte (test result) have been called, subsequent consecutive critical values for the same analyte will not be called. Computer comment “CWP” (consistent with previous) is appended to subsequent critical result(s). If a test result becomes normal, the cycle of calling 3 consecutive critical results will start again. All outpatient critical results are called.

Test Name	For age ranges	Results less than	Results greater than
Acetaminophen	All	N/A	30 µg/ml
Alcohol	All	N/A	300 mg/dl
Ammonia	All	N/A	First result 100 µg/ml
Bilirubin, Total	0 - 1 month	N/A	First result 10.0 mg/dl
BUN	All	N/A	First result 120 mg/dl
Carbamazepine	All	N/A	12.0 µg/ml
Calcium	All	6.0 mg/dl	14.0 mg/dl
Chloride	All	80 mmol/L	120 mmol/L
CO ₂	All	15 mmol/L	45 mmol/L
Digoxin	All	N/A	3.0 ng/ml
Dilantin	All	N/A	25.0 µg/ml
Gentamicin	All	N/A	12.0 µg/ml
Glucose, CSF	All	40 mg/dl	N/A
Glucose, serum/plasma	All	50 mg/dl	500 mg/dl

Test Name	For age ranges	Results less than	Results greater than
Ionized Calcium	All	0.80 mmol/L	1.50 mmol/L
Lithium	All	N/A	2.0 mmol/L
PCO ₂ *	All	20 mmHg	70 mmHg
pH	All	7.20	7.60
Phenobarbital	All	N/A	80.0 µg/ml
Phosphorus **	All	1.0 mg/dl	8.0 mg/dl
PO ₂ *	All	40 mmHg	N/A
Potassium	All	2.5 mmol/L	6.0 mmol/L
Salicylate	All	N/A	30 µg/ml
Sodium	All	120 mmol/L	160 mmol/L
Theophylline	All	N/A	40.0 µg/ml
Tobramycin	All	N/A	12.0 µg/ml
Valproic Acid	All	N/A	150 µg/ml
Vancomycin	All	N/A	25.0 µg/ml (trough, random) and 40.0 µg/ml (peak)
Uric Acid	All	N/A	12.0 mg/dl

* Exception: Do not call critical cord blood gas results.

**Exception: Do not call critical Phosphorus results on dialysis clinic patients.

Section: Hematology

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Test Name	For age ranges	Results less than	Results greater than
Fibrinogen	All	60 mg/dl	N/A
Hematocrit	<1 day	20%	62.0%

Test Name	For age ranges	Results less than	Results greater than
Hematocrit	1 - 13 days	20%	65.0%
Hematocrit	14 days - <1 month	20%	63.0%
Hematocrit	>= 1 month	20%	60%
Hemoglobin	<1 day	6.0 g/dl	21.0 g/dl
Hemoglobin	1 - 6 days	6.0 g/dl	22.0 g/dl
Hemoglobin	7 days - 13 days	6.0 g/dl	21.5 g/dl
Hemoglobin	14 days - <1 month	6.0 g/dl	20.5 g/dl
Hemoglobin	>= 1 month	6.0 g/dl	20.0 g/dl
INR	All	N/A	Lot specific
PT	All	N/A	50.0 seconds
PTT (Inpatients)	All	N/A	105.0 seconds
PTT (Outpatients)	All	N/A	70.0 seconds
Platelet Count*	All	30 K/ μ l	1,000 K/ μ l
WBC*	<1 day	N/A	38.0 K/ μ l
WBC*	1 - 6 days	N/A	34.0 K/ μ l
WBC*	>= 7 days	N/A	30.0 K/ μ l

*** Exception: Critical WBC and Platelet counts from patient locations HNI1 and HNI2 are handled the same as inpatient critical results. (Three consecutive critical results are called.)**

Section: Microbiology - All critical results are called as listed below.

1. All positive cultures from the following sources:
 - a. Blood - Call only first two positives within five days with the same Gram stain result
 - b. Corneal Scrapings
2. All positive smears or cultures from the following sources:
 - a. Body Fluids (CSF, synovial, pleural, amniotic, dialysis, vitreous or anterior chamber fluids) - Call only first two positives
 - b. Surgically obtained tissue specimens
3. All smears positive for AFB and cultures positive for M. tuberculosis - Call only first two positives

4. All positive cultures for the following microorganisms: Campylobacter, N. gonorrhoeae, Salmonella, Shigella, E. coli 0157, Yersinia, Vibrio
5. All stool cultures positive for Shiga toxin
6. All positive cryptococcal antigens - Call only first positive from each body site (blood, CSF)

Section: Microscopy

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Test Name	For age ranges	Results less than	Results greater than
CSF WBC	All	N/A	8 WBC/ μ l
Osmolality, Serum	All	250 mOsm/kg	330 mOsm/kg
Osmolality, Urine	All	90 mOsm/kg	1,000 mOsm/kg

Section: Blood Bank/Transfusion Medicine

1. A new positive antibody screen that may result in a delay in finding compatible units of blood when the patient is in a critical area with the potential to use blood products (ER, OR, Labor & Delivery)
2. A new positive antibody screen (historically negative or unknown) or a previously unidentified antibody (additional known antibodies) for a patient that is actively using blood products
3. An incompatible crossmatch following the issue of emergency release uncrossmatched blood products.
4. All Cord Blood Evaluations
5. A transfusion reaction workup that demonstrates evidence of a hemolytic transfusion reaction (immediate or delayed)
6. A blood donor whose fingerstick hemoglobin levels are less than 8.0 g/dL pre-donation.

RELATED DOCUMENTS AND REFERENCES

College of American Pathologists, COM.30000

BBTS214, *Blood Bank Critical Results* (in iPassport)

APPROVALS

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