

NEBRASKA MEDICINE—CHEMISTRY

Listed below are the established critical limits for the Nebraska Medicine Chemistry areas, UNL Student Health and Internal Medicine Associates-Grand Island. Results exceeding these limits are flagged as critical in the LIS and must be called to the patient's caregiver or physician. Certain life-threatening critical levels will be called each time the result is obtained (**analytes in bold print with asterisk**). Critical results for the other analytes will be called the first time obtained on a patient during one inpatient admission AND whenever it returns to critical status again. Outpatient criticals are called every time. Call criticals on SimplyWell health fair specimens to Deb Bergman at 402-490-4320 (cell) / 402-559-6843 (work), Micelle Nichols 402-690-3864 (cell) / 402-552-3383 (work or Elaine Murphy 402-350-3913) cell) / 402-559-4689 (work).

At the discretion of the section and with medical director approval, arrangements may be made to call non-critical values which are of concern.

*ANALYTE IN BOLD=CALL EVERY TIME!

*Acetaminophen	> 150.0 mcg/mL	*Fetal fibronectin	all positives
Alcohol level	> 300 mg/dL	Lactic Acid	> 3.3 mmol/L
*Amikacin	> 30.0 µg/mL (random) > 30.0 µg/mL (peak) > 8.0 µg/mL (trough)	Call first time critical and call if critical and no lactates have been performed for 48 hours.	
Amylase	> 225 U/L	*Lithium	> 2.0 mmol/L
*Base excess (cord blood-arterial)	≥ 12 mmol/L	*Magnesium	< 1.0 mg/dL > 5.0 mg/dL (non-OB) > 8.0 mg/dL (OB)
Bilirubin, Total	> 15.0 mg/dL (> 2 days of age and < 1 year of age only) > 12 mg/dl (< 2 days of age)	Methemoglobin	> 10%
*Calcium	< 6.5 mg/dL > 13.0 mg/dL	Osmolality, serum	< 260 mOsm/kg > 330 mOsm/kg
*Calcium, Ionized	< 0.90 mmol/L > 1.60 mmol/L	*pCO2 (blood gases)	< 21 mmHg > 69 mmHg
*Carbamazepine	> 20.0 mcg/mL	*pH (blood gases)	< 7.21 > 7.59
*Carbon Monoxide	> 20.0%	*pH (cord blood-arterial)	≤ 7.00
Chloride	< 75 mmol/L > 125 mmol/L	*Phenobarbital	> 60 mcg/mL
CO2	< 10.0 mmol/L > 40.0 mmol/L	*Phenytoin	> 30 mcg/mL
Creatinine	> 7.50 mg/dL	Phosphorus	< 1.2 mg/dL
CSF Glucose	< 40 mg/dL > 400 mg/dL	*pO2 (arterial)	< 40 mmHg
CSF Protein	< 11 mg/dL > 99 mg/dL	*Potassium	< 2.9 mmol/L > 6.0 mmol/L
*Digoxin	< 10 year: ≥ 3.0 ng/mL ≥ 10 year: ≥ 2.5 ng/mL	*Salicylate	> 30.0 mg/dL
*Gentamicin	> 2.0 mcg/mL (trough) > 12.0 mcg/mL (peak)	Sodium	< 120 mmol/L > 160 mmol/L
*Glucose	< 54 mg/dL > 450 mg/dL	*Theophylline	> 20.0 mcg/mL
		*Tobramycin	> 2.0 mcg/mL (trough) > 12.0 mcg/mL (peak)
		Troponin I	≥ 0.4 ng/mL (main lab) > 0.35 ng/mL (iStat)
		*Valproic Acid	> 200 mcg/mL
		*Vancomycin	> 20.0 mcg/mL (trough) > 80.0 mcg/mL (peak)

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NEBRASKA MEDICINE—HEMATOLOGY / COAGULATION

Listed below are the established critical limits for the Nebraska Medicine Hematology & Coagulation areas, UNL Student Health and Internal Medicine Associates-Grand Island. Results exceeding these limits are flagged as critical in the LIS and must be called to the patient's caregiver or physician. Certain life-threatening critical levels will be called each time the result is obtained (**analyte in bold print with asterisk**). Critical results for the other analytes will be called the first time obtained on a patient during one inpatient admission AND whenever it returns to critical status again. Outpatient criticals are called every time. Call criticals on SimplyWell health fair specimens to Deb Bergman at 402-490-4320 (cell) / 402-559-6843 (work), Micelle Nichols 402-690-3864 (cell) / 402-552-3383 (work) or Elaine Murphy 402-350-3913 (cell) / 402-559-4689 (work).

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*ANALYTE IN BOLD=CALL EVERY TIME!

Coagulation:	
Fibrinogen	< 100 mg/dL
*PT INR	> 4.0
*PTT	> 100 seconds
Factor VIII	<15 % on patients unknown to Nebraska Medicine
*Heparin Quantitative Test	>0.80 IU/mL
Hematology:	
*Hemoglobin (< 7 month)	< 9.5 g/dL > 25.0 g/dL
*Hemoglobin (≥ 7 months)	< 6.5 g/dL > 18.5 g/dL
*Platelet Count	< 10 x10³/uL < 40 x10³/uL > 1000 x10³/uL
Sickle Cell Prep	all positives on pre-ops
WBC	< 1.0 x10 ³ /uL (See exception 1 below) > 40.0 x10 ³ /uL
Absolute Neutrophil Count	< 0.5 x10 ³ /uL (see exception 2 below)
Exception 1: OHSCU Bone marrow transplant patients & LTCC inpatients: Call only upper limit critical WBC.	
Exception 2: OHSCU Bone marrow transplant patients and LTCC inpatients.	
[These exceptions were identified & received the approval of the Medical Director of Core Lab and the Medical Directors of the clinical areas requesting the exceptions.]	
WBC (CSF)	> 10 / uL (> 1 year of age) >40 / uL (0-1 year of age)
Kleihauer	All positives
Malaria Preps	All positives