

CRITICAL VALUES
CLINICAL LABORATORY TEST RESULTS
MercyOne Oelwein Medical Center

Once a critical value has been determined, a licensed caregiver is notified within 10 minutes by the person performing the test.

LOW	TEST	HIGH
NONE	BUN	> 70.0 mg/dl*
NONE	CREATININE	> 4.0 mg/dl*
< 120 mEq/L	SODIUM, SERUM	> 155 mEq/L
< 3.0 mEq/L	POTASSIUM, serum	> 6.0 mEq/L
< 3.6 mEq/L	POTASSIUM, serum, newborn	> 8.0 mE
< 60 mg/dL	GLUCOSE, serum	> 500 mg/dL
< 50 mg/dL	GLUCOSE, serum, newborn	> 300 mg/dL
< 6 mg/dL	CALCIUM, serum	> 13 mg/dL
< 14 mmol/L	CO2	> 40 mmol/L
NONE	T. BILI	> 15.0 mg/dL
	DIGOXIN	> 2.5 ng/dL
	ALT/ALP/AST/AMYLASE/CK/LDH	> 500 U/L
NONE	PROTHROMBIN TIME (INR)	> 4.0
NONE	APTT, screen	> 40 seconds
NONE	DIMER	> 500
< 50,000 cu mm	PLATELET COUNT	> 1,000,000 cu mm
< 1,500 cu mm	LEUKOCYTE COUNT (WBC)	> 30,000 cu mm
< 1,500 cu mm	LEUKOCYTE COUNT (WBC)	> 20,000 cu mm
< 7.0 gm/dL	HEMOGLOBIN	NONE
< 0.5 cu mm	ABSOLUTE NEUTROPHIL COUNT	NONE
< 1.0 mg/dL	PHOSPHORUS - HDU	NONE
NONE	LACTIC ACID	1 st result > 2.0 mmol/L
None	TROPONIN I HIGH SENSITIVITY	1 st result Male ≥ 76.2 pg/mL or a 20% increase from previous result 1 st result Female ≥ 51.4 pg/mL or a 20% increase from previous result
< 7.3	ARTERIAL Ph	> 7.5
< 30 mmHg	ARTERIAL PCO2	> 50 mmHg
< 50 mmHg	ARTERIAL PO2	> 110 mmHg

*Non HDU patients

POSITIVE CSF GRAM STAIN OR CULTURE
 POSITIVE HIV ½ ANTIBODY
 POSITIVE RSV - AGE ≤ 3 MONTHS

DRUG LEVELS RUN IN-HOUSE ABOVE THE THERAPEUTIC RANGE MUST BE CALLED.

THE FOLLOWING VALUES ARE CONSIDERED CRITICAL VALUES IN THE BLOOD BANK:

1. Any "positive" on a transfusion reaction work-up.
2. Positive DAT on a cord blood work-up.
3. Positive DAT on a recently transfused patient.
4. Emergency Release needing in-vivo cross match checks.
5. Any hemolysis or increase in DAT strength noted on an in-vivo check.

Technologists will use their own discretion in determining whether or not other abnormal values should be called. Verbally reported critical values require a verification "read-back" of the test result by the person receiving the test result.