

## Laboratory Panic (Critical) Values

The panic values below will be used for notification of clinical staff. A panic value is defined as a grossly abnormal laboratory result that may directly and immediately impact patient care. Please review the defined panic values below. Critical values will be flagged with the following icons on printed reports and electronic views:

**Example !!**



Panic



Low Panic



High Panic

Analyte	Low Panic (PL)	High Panic (PH)
Anti-Xa, Low Molecular Weight		≥ 1.3 IU/mL
Anti-Xa, Unfractionated		≥ 1.0 IU/mL
Acetaminophen		> 150 mcg/mL
Alcohol		≥ 498 mg/dL
Ammonia		> 150 umol/L
AST (OB patients only)		>72 U/L
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Bilirubin, Total (Neonate only)		≥ 17 mg/dL
BUN (Blood Urea Nitrogen)		> 90 mg/dL
Calcium	< 6.0 mg/dL	> 13.0 mg/dL
Carbon monoxide		≥ 10%
CBC, % bands (ED only)		> 10 %
CBC, % blasts		≥ 3 %
CK		> 20,000 U/L
CK-MB		> 11.0 ng/mL
Creatinine, Blood		> 6.0 mg/dL
Cultures, Blood, Sterile Body Fluid/Tissue	Positive gram stain or culture	
D-Dimer (outpatient)		> 500 ng/mL
Digoxin		> 2.5 ng/mL
Direct Coombs	Positive	
Fibrinogen	< 100 mg/dL	
Fibrinogen (OB patients)	<150 mg/dL	
Glucose (0 up to 48 hours)	≤ 35 mg/dL	> 400 mg/dL
(48 hours up to 1 year)	< 40 mg/dL	> 400 mg/dL
(1 year +)	< 54 mg/dL	> 400 mg/dL
Hematocrit	< 21.0 %	
Hemoglobin	< 7.0 g/dL	
INR (Prothrombin Time INR)		> 4.5
Lactic Acid		> 2.0 mmol/L
Lipase		> 1,000 U/L
Lithium		> 2.0 mmol/L
Magnesium	< 1.0 mg/dL	> 5.0 mg/dL
Methemoglobin		≥ 2 %
Oxyhemoglobin (Arterial)	< 80 %	
Phenobarbital		≥ 60 mcg/mL
Phenytoin		> 40 mcg/mL
Platelet count	< 35 th/mm3	> 1,500 th/mm3
Potassium	< 3.0 mmol/L	> 6.2 mmol/L
PTT		≥ 120 sec
Salicylate		> 40 mg/dL

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Analyte	Low Panic (PL)	High Panic (PH)
Sodium	< 120 mmol/L	> 160 mmol/L
Theophylline		> 25 mcg/mL
Troponin I		> 0.49 ng/mL
Valproic Acid		> 150 mcg/mL
WBC Count (0 up to 30 days)	< 1.5 th/mm3	> 38.0 th/mm3
(30 days +)	< 1.5 th/mm3	> 38.0 th/mm3
(COH Lab)	< 1.5 th/mm3	> 45.0 th/mm3

**Blood Gas Critical Values (POCT only)**

Analyte	Low Panic (PL)	High Panic (PH)
pH (ABG)	< 7.2	> 7.55
pH (VBG)	< 7.2	> 7.60
pCO2 (ABG)	< 18 only if pH is outside normal range	> 60 only if pH is outside normal range
pCO2 (VBG)	< 20 only if pH is outside normal range	> 69 only if pH is outside normal range
pO2 (ABG)	< 50 only if FiO2 cannot be adjusted and/or pH is outside of normal range	
HCO3 (ABG)	< 8 only if pH is outside normal range	> 38 only if pH is outside normal range

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