

# BAY AREA HOSPITAL CRITICAL VALUES

## HEMATOLOGY CRITICAL RESULTS

WBC	< 2000 and >30,000 (1 <sup>st</sup> time)	cells/uL
HGB	< 7.0 and >20.0	gm/dl
HGB (Newborn)	<7.0 and >25.0	gm/dl
Platelets	< 50,000 and > 750,000 (1 <sup>st</sup> time)	cells/uL
PT	> 5.0 INR (1 <sup>st</sup> time)	
PTT	>100 (1 <sup>st</sup> time)	seconds
HepXa	>1 .00	U/mL
Fibrinogen	< 100	mg/dL
Bleeding time	> 20	minutes
CSF WBC	>5	cells/uL
Blasts (all ages)	>1 (1 <sup>ST</sup> time)	Cells

## CHEMISTRY CRITICAL RESULTS

Alcohol	> 350 (1 <sup>st</sup> time)	mg/dL
Bilirubin Total (0-5 days)	> 15	mg/dL
Calcium	< 6.5 and > 13.0	mg/dL
Ionized Calcium	<0.88 or >1.63	mmol/L
CO2	< 10	mmol/L
Creatinine	> 7.0 (1 <sup>st</sup> time)	mg/dL
Glucose	< 50 and > 450	mg/dL
Glucose (Newborn)	< 40 and > 450	mg/dL
Lactate	> 1.9	mmol/L
Magnesium	< 0.8 and > 4.0	mEq/L
Potassium	< 2.8 and > 6.2	mmol/L
Sodium	< 120 and >160	mmol/L
Troponin	> 0.50 (1 <sup>st</sup> time or any subsequent increase)	ng/ml
CKMB	> 20.0	ng/ml
Procalcitonin	>10.0 (1 <sup>st</sup> time)	ng/ml

Salicylate	> 30 (1 <sup>st</sup> time)	mg/dL
Acetaminophen	> 140 (1 <sup>st</sup> time)	ug/ml
Digoxin	> 2.5	ng/ml
Lithium	> 3.0	mEq/L
Valproic acid	> 200	ug/ml
Dilantin	> 40	ug/ml
Theophylline	> 30	ug/ml

pH	< 7.20 and >7.60	
pCO2	>60 (1 <sup>st</sup> time)	mm Hg
%CO	> 20 (1 <sup>st</sup> time)	%

(This chart found on page 3 of "Critical Result reporting" procedure on LAB SHARED, POL. & PROC.)

Approval: 9/29/2021 by Medical Executive Committee

### **Additional Critical values for Hematology:**

- Positive Blood Parasite Smear
- WBC cytoplasm containing bacteria/yeast seen

### **Critical values for Transfusion Services:**

*Requires immediate pathologist and physician notification. For inpatients, the RN will also be contacted.*

- Transfusion Reaction work-up which indicates possible bacterial contamination, TRALI, or hemolysis.
- Red blood cell units issued uncrossmatched on an emergency basis and later found to be incompatible
- No compatible red blood cell units available for a patient due to allo- or auto- antibodies
- Patient has a suspected new allo- or auto- antibody that may lead to a delay of transfusion or surgery.

### **Critical values for Microbiology:**

*Notified by phone call and result FAXed to the ordering provider*

- Positive Blood Cultures from initial gram stain
- Positive Acid Fast smears and cultures
- Positive CSF Gram stains and cultures
- Positive growth from any sterile body fluid (e.g. ascites, pleural, etc.)
- Positive enteric pathogens cultures
- Positive Clostridium difficile toxin
- Ocular cultures positive for Staph aureus, Pseudomonas aeruginosa, Streptococcus pneumoniae
- Positive for MRSA, VRE/VRS, and other multi-drug resistant organisms (MDRO).
- Positive for potential bioterrorism agents: B. anthracis, Brucella Sp., F.tularensis, Y. pestis
- Positive malarial or blood parasite smears

### **Critical values for Pathology:**

*Pathologist will contact the provider by phone*

- Frozen sections are called directly to the surgeon by phone and documented in the final Pathology report.
- Significant surgical pathology and cytology results are called to a responsible licensed provider (RN, MD, DO, PA, NP) and documented in the pathology report files

### **RESULTS TO BE REPORTED WITHIN 24 HOURS-NON-LIFE THREATENING:**

Results being called from our reference laboratory, Mayo Clinic Laboratories