

## Call-Back Critical and Toxic Value Levels

Test	Low	High
Acetaminophen (Tylenol), Plasma		≥120 mcg/mL
Antibody Titer, Erythrocytes	Significant change per SOP	
Bilirubin, Neonatal, Plasma		≥17.0 mg/dL
Blood Gases, Arterial		
pH	≤7.25 units	≥7.60 units
pCO <sub>2</sub>	≤20 mm Hg	≥70 mm Hg
pO <sub>2</sub>	≤50 mmg Hg	
HCO <sub>3</sub>	≤14 mmol/L	≥40 mmol/L
Caffeine, Plasma or Serum		≥30.0 mcg/mL
Calcium, Plasma	≤7.0 mg/dL	≥12.0 mg/dL
Carbamazepine (Tegretol), Plasma		≥15 mcg/mL
Carbon Dioxide (CO <sub>2</sub> ), Plasma	≤14 mmol/L	≥40 mmol/L
Carbon Monoxide (CO), Blood		>20%
<i>Clostridium difficile</i> Screen, PCR, Stool		All positives
Creatinine with Estimated GFR (CKD-EPI), Plasma (if <b>not</b> ordered by Nephrology)		≥5.0 mg/dL
Crossmatch, Adult or Pediatric	New antibodies that will delay transfusion	
Culture (any non-surveillance source)	All positives for methicillin-resistant <i>Staphylococcus aureus</i> (MRSA), vancomycin-resistant <i>Enterococcus</i> (VRE), vancomycin-resistant <i>Staphylococcus aureus</i> (VRSA), extended-spectrum beta-lactamase (ESBL), or <i>Klebsiella pneumoniae</i> carbapenemase (KPC)	
Culture, Blood		All positives
Culture, Fluid Source		All positives
Culture, Spinal Fluid with Gram Stain		All positives
Culture, Nares Surveillance for MRSA (Methicillin-Resistant <i>Staphylococcus aureus</i> )		All positives for MRSA (inpatient only)
Digoxin, Plasma		≥2.5 ng/mL
Direct Antiglobulin Test (DAT), Blood		Positive previously unknown
Enteric Pathogen Panel		All positives for Shiga toxin (EHEC)
Fibrinogen, Plasma	<50 mg/dL	
Gentamicin (Garamycin), Plasma Peak		≥12 mcg/mL
Glucose, Fasting Blood Sugar (FBS), Plasma		
Neonatal	≤40 mg/dL	≥300 mg/dL
Adults	≤50 mg/dL	≥400 mg/dL
Gram Stain	All positives on sterile body fluid (non-urine) and internal body sites (non-wound)	
Hemoglobin, Blood	<7.0 g/dL	
Heparin Anti-Xa, Plasma		≥1.0 IU/ml
Lead, Blood		
Pediatrics (<16 years)		>20 mcg/dL
Adults (>16 years)		>65.0 mcg/dL
Lithium, Serum		≥2.0 mmol/L
Magnesium, Plasma	≤1.0 mg/dL	≥5.0 mg/dL
Malaria Smear		All positives
Methotrexate, Plasma		≥0.90 micromol/L

Test	Low	High
Partial Thromboplastin Time (APTT, PTT), Plasma		>65 seconds
Phenobarbital, Plasma		≥55 mcg/mL
Phenytoin (Dilantin), Plasma		≥30 mcg/mL
Phenytoin (Dilantin) Free, Plasma		≥2.5 mcg/mL
Platelet Count, Blood	<50 x10 <sup>3</sup> /uL	>1,000 x10 <sup>3</sup> /uL
Potassium (K+), Plasma	≤3.0 mmol/L	≥6.0 mmol/L
Prothrombin Time (PT) with International Normalized Ratio (INR), Plasma INR		>4.0
Rosette Test, Blood		All positives
Salicylate, Plasma		≥30 mg/dL
Sodium, Plasma	≤120 mmol/L	≥150 mmol/L
Theophylline (Aminophylline), Plasma		≥30 mcg/mL
Tobramycin, Plasma Peak		≥10 mcg/mL
Valproic Acid (Depakene), Plasma Peak		≥150 mcg/mL
Vancomycin, Plasma Peak		≥90 mcg/mL
White Blood Cell (WBC) Count, Blood	<1.5 x10 <sup>3</sup> /uL	>30.0 x10 <sup>3</sup> /uL
<b>Does not include tests listed as “always called back.”</b>		
<b>Kidney Dialysis Unit Alarm Values</b>		
Test	Low	High
Calcium	≤6.5 mg%	≥11.0 mg%
Carbon Dioxide (CO <sub>2</sub> )	<8.0 mEq/L	≥40 mEq/L
Creatinine	No established alarm value	
Glucose	<40 mg%	≥600 mg%
Hemoglobin	<7.0 gm%	None
INR	None	>4.0
Phosphorus	≤2.0 mg%	≥10.0 mg%
Potassium	≤3.5 mEq/L	≥6.5 mEq/L
Sodium	≤125 mEq/L	≥150 mEq/L
White Blood Cell (WBC) Count	<2,000 x10 <sup>3</sup> /uL	>20,000 x10 <sup>3</sup> /uL
<b>Automatic call-back on all peritoneal fluid cultures and cell counts</b>		
<b>Neonatal ICU Alarm Values</b>		
Test	Low	High
Absolute Neutrophil Count (ANC)	<1.0 x10 <sup>3</sup> /uL	
<b>Oncology Alarm Values</b>		
Test	Low	High
Hemoglobin	<6.0 g/dL	
Platelet Count	<10 x10 <sup>3</sup> /uL	>1,000 x10 <sup>3</sup> /uL
White Blood Cell (WBC) Count	<1.5 x10 <sup>3</sup> /uL	>100.0 x10 <sup>3</sup> /uL