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_2	≤20 mm Hg	≥70 mm Hg
pO_2	≤50 mmg Hg	
HCO_3	≤14 mmol/L	≥40 mmol/L
Calcium, Plasma	≤7.0 mg/dL	≥12.0 mg/dL
Carbamazepine (Tegretol), Plasma		≥15 mcg/mL
Carbon Dioxide (CO_2), Plasma	≤14 mmol/L	≥40 mmol/L
Carbon Monoxide (CO), Blood		>20%
Clostridium difficile Screen, PCR, Stool	All positives	
Creatinine with Estimated GFR (CKD-EPI), Plasma (if **not** 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 *Staphylococcus aureus* (MRSA), vancomycin-resistant *Enterococcus* (VRE), vancomycin-resistant *Staphylococcus aureus* (VRSA), extended-spectrum beta-lactamase (ESBL), or *Klebsiella pneumoniae* carbapenemase (KPC)	
Culture, Blood	All positives	
Culture, Fluid Source	All positives	
Culture, Spinal Fluid with Gram Stain	All positives	
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
Lithium, Serum		≥2.0 mmol/L
Magnesium, Plasma	≤1.0 mg/dL	≥5.0 mg/dL
Malaria Smear	All positives	
Methotrexate, Plasma		≥0.90 µmol/L
Partial Thromboplastin Time (APTT, PTT), Plasma		≥65 seconds
PCR, Nares Surveillance for MRSA (Methicillin-Resistant Staphylococcus aureus)	All positives for MRSA (inpatient only)	

Test	Low	High
Phenobarbital, Plasma		≥55 mcg/mL
Platelet Count, Blood	<50 K/UL	>1,000 K/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
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 K/UL	>30.0 K/UL
Does not include tests listed as "always called back."		
Kidney Dialysis Unit Alarm Values		
Test	**Low**	**High**
Calcium	≤6.5 mg/dL	≥13.0 mg/dL
Carbon Dioxide (CO_2)	<8.0 mmol/L	none
Creatinine	No established alarm value	
Glucose	<40 mg/dL	≥600 mg/dL
Phosphorus	≤1.0 mg/dL	none
Potassium	≤3.0 mmol/L	≥6.5 mmol/L
Automatic call-back on all peritoneal fluid cultures and cell counts		
Neonatal ICU Alarm Values		
Test	**Low**	**High**
Absolute Neutrophil Count (ANC)	<1.0 K/UL	
Oncology Alarm Values		
Test	**Low**	**High**
Hemoglobin	<6.0 g/dL	
Platelet Count	<10 K/UL	>1,000 K/UL
White Blood Cell (WBC) Count	<1.5 K/UL	>100.0 K/UL