



Manual: CLINICAL LABORATORIES POLICIES		Procedure No: LAB.QA. 22B Version No: 7
Supersedes: Critical Value List, July 2007 Procedure-Written: June 15, 2007 Annual Review of QA Manual:		Signed: Signed:
Author: Leslie Revier	Date Revised: September 24, 2008	Approval: R. McLawhon, MD, PhD  Laboratory Director/Designee Approval Date:
	Effective Date: January 16, 2009	

**UCSD MEDICAL CENTER CLINICAL LABORATORIES  
POLICY & PROCEDURE MANUAL**

**CRITICAL RESULTS LIST**

**HEMATOLOGY**

**TEST NAME**

Hemoglobin*	< 7 or >19 gms/dL
Hemoglobin, newborn (<1week)	<12 or >23 gms/dL
Hemoglobin 8 days-6 mos (Point of Care)	< 7 or >23 gms/dL
Platelet count*	< 20,000/mm <sup>3</sup> or >1,000,000/mm <sup>3</sup>
WBCs*	> 100,000/mm <sup>3</sup>
Blasts, (1 <sup>st</sup> time admission)	Any
Neutrophils, absolute count*	< 500/mm <sup>3</sup>
CSF, adult	WBC>10
CSF, Newborn (<1 week)	WBC>20
CSF, Differential	Neutrophils >10% and RBC <100
Malaria or other parasite	Any

\* These Hemoglobin/cell count results must be called the first time per admission or per outpatient visit. If during an admission, the results return to within the “no call range” and then goes out of this range again, a call must be made.

**COAGULATION**

**TEST NAME**

Fibrinogen	<100 mg/dL
Prothrombin time	INR > 4.0
APTT	>70 seconds

**UCSD MEDICAL CENTER CLINICAL LABORATORY POLICY & PROCEDURE MANUAL  
CRITICAL RESULTS LIST****CLINICAL CHEMISTRY****TEST NAME**

Bicarbonate	<10 or >40 mEq/L
Neonatal Bilirubin	>15 mg/dL
Calcium	<6.5 or >13.5 mg/dL
Ionized Calcium	<0.8 or >1.5 mmol/L
Glucose	<60 mg/dL or >500mg/dL
Glucose, neonates	<40 or >220 mg/dL
Magnesium	<1.0 or >5.0 mg/dL
Phosphorus	<1.1 mg/dL or >9.0mg/dL
Potassium	<2.8 or > 6.0 mEq/L
Sodium	<120 or >160 mEq/L
Troponin I*	>1.6 ng/ml (1 <sup>st</sup> Time Only)

\* The Troponin I results must be called the first time per admission or per outpatient visit. If during an admission, the result returns to within the "no call range" and then goes out of this range again, a call must be made.

**TOXICOLOGY/TDM****TEST NAME**

Acetaminophen	> 200 mcg/mL
Carbamazepine	> 20 mcg/mL
Digoxin	> 2.5 ng/mL
Lithium	> 2.0 mmol/L
Phenobarbital	> 60 mcg/mL
Phenytoin	> 40 mcg/mL
Salicylate	> 50 mg/dL
Theophylline	> 40 mcg/mL
Valproic acid	> 150 mcg/mL

**MICROBIOLOGY**

Blood	positive gram stain (1 <sup>st</sup> patient specimen)
CSF	positive gram stain (1 <sup>st</sup> patient specimen)
Blood	positive culture (1 <sup>st</sup> patient specimen)
CSF	positive culture (1 <sup>st</sup> patient specimen)
CSF	positive cryptococcal antigen or Coccidioides serology (1 <sup>st</sup> patient specimen)
Acid fast bacillus	positive smear (1 <sup>st</sup> patient specimen)
Tuberculosis	positive PCR (1 <sup>st</sup> patient specimen)
Enterovirus (CSF)	positive PCR (1 <sup>st</sup> patient specimen)
Herpes (CSF)	positive PCR (1 <sup>st</sup> patient specimen)

**UCSD MEDICAL CENTER CLINICAL LABORATORY POLICY & PROCEDURE MANUAL  
CRITICAL RESULTS LIST**

**TRANSFUSION MEDICINE**

A clinically significant positive antibody identified in testing subsequent to a patient receiving an “emergency released” uncrossmatched unit of red blood cells.

