

CRITICAL VALUES for PORTER HOSPITAL LABORATORY

Effective July 13, 2010; Approved by Medical Staff 6/9/2010

APPENDIX A: CRITICAL VALUES CHART

Testing Area	Alerting Category	Test	Red Category: Complete Alert within 1 Hour	Orange Category: Complete Alert within 8 hrs. May be acceptable to defer between 9pm & 8am.
--------------	-------------------	------	--	---

Blood Bank	Always Red	Compatibility	Any compatibility problems.	
		Transfusion Reactions	Any transfusion reactions indicating incompatibility.	

Chemistry	Always Red	Alcohol	Above: 200 mg/dl	
		Bilirubin on Infant 0-30 days	Above: 15 mg/dl	
		Carbon Dioxide	Below: 10 mEq/L	
		Creatinine	>4.0 mg/dl with no previous critical <u>or</u> >4.0 mg/dl and >2.5 mg/dl higher than previous critical value	
		Digoxin	Above: 2.0 ng/ml	
		Gentamicin	Trough: >2.0 µg/ml Peak: >12.0 µg/ml	
		Glucose, CSF	Below: 30 mg/dl	
		Glucose	Below: 50 mg/dl Above: 500 mg/dl	
		Lithium	Above: 2.5 mEq/L	
		Ph (arterial)	Below 7.0	
		Blood Gases	Above: 7.6	
		Potassium	Below: 2.8 mEq/L Above: 6.0 mEq/L	
		Sodium	Below: 120 mEq/L Above: 160.0 mEq/L	"Orange" if repeated within 24 hrs. and improving
	1st Time in a Cardiac Series	Troponin	Above: 0.1 ng/mL	
	Red on First Instance,* Orange Thereafter. Most dangerous when first detected, but providers should have these results as condition is being treated.	Acetaminophen	Above: 100 µg/ml	
		Calcium	Below: 7.0 mg/dl	
			Above: 13.0 mg/dl	
		Carbamazepine	Above: 15 µg/ml	
		Magnesium	Below: 0.8 mg/dl	
			Above: 5.0 mg/dl	
Phenobarbital		Above: 50 µg/ml		
Phenytoin		Above: 30 µg/ml		
Salicylate	Above: 30 mg/ml			
Theophylline	Above: 20 µg/ml			
Valproic	Above: 150 µg/ml			

Coagulation	Always Red	INR	Above: 4.0	
		PTT	Above: 90 sec.	

* First instance = No critical value in the same result range (high versus low) in the past 5 days

CRITICAL VALUES for PORTER HOSPITAL LABORATORY

Effective July 13, 2010; Approved by Medical Staff 6/9/2010

Testing Area	Alerting Category	Test	Red Category: Complete Alert within 1 Hour	Orange Category: Complete Alert within 8 hrs. May be acceptable to defer between 9pm & 8am.	
Hematology	Always Red	Hemoglobin	Below: 8 mg/dl	Above: 18 g/dl	
		Hematocrit	Below: 24 %	Above: 60 %	
		Leukocytes	Below: 1,000 / μ L		
	Red on first instance,* orange thereafter.	Abs. Neutrophil	Below: <500 / μ l		
		Leukocytes	Above: 50,000 / μ L		
		Platelets	Below: 20,000 / μ L or 50% decrease in count <50,000 / μ L		
			Above: 1,000,000 / μ L		
Blast cells	1st time or >20%				
Microbiology	Always Red	Blood cultures	Growth of any organism(s)		
		Gram stain	Positive gram stains from: CSF & Joint Fluid		
		CSF Cultures	Growth of any organism(s)		
		Culture	Growth of Group A streptococcus (from other than throat)	Growth of Enteric Pathogen	
			Growth of Group B streptococcus from newborns	Positive culture for <i>N. gonorrhea</i>	
		Positive Rapid Testing	<ul style="list-style-type: none"> RSV Influenzae A or B 	Growth of VRE or MRSA	
Reference Laboratory Reporting	Always Red	Any Test Deemed Critical by Reference Lab	Any Critical Value called from a Reference Lab		
	Orange 1 st Time* so providers can initiate treatment within the next few hours. Routine Thereafter.				Positive HIV WB (new diagnosis)
					Positive <i>B. pertussis</i> by PCR
					Positive Acid Fast Stain/ Isolate
					Positive Parasites in Blood or Feces
					Positive Chlamydia or GC DNA Probes
					Any Significant Findings* called from a Reference Lab.

* First instance = No critical value in the same result range (high versus low) in the past 5 days

* Significant microbiology findings are defined as "infectious disease related results that are needed promptly to avoid potentially serious health consequences for the patient" or, in the case of contagious diseases, "potentially serious health consequences to others exposed to the patient if not acknowledged and/or treated by the physician."