## **CRITICAL LIMITS FOR LABORATORY TEST VALUES**

\*Critical values will be reported only for tests that are ordered. No results for unordered tests will be given.

\*Laboratory personnel will initiate notification of an appropriate caregiver (physician, house staff, or nurse) of any defined critical value(s) detected within 20 minutes of detection of the result in the lab. After 20 minutes, the Organizational Policy #201, "Chain of Command of the Unstable Patient", will be followed.

\*Reference separate Microbiology/Virology/Histology and Pathology critical policy procedures.

DEPARTMENT/TEST	VALUE	
CRITICAL TESTS (The following two tests will be called every time regardless of result)		
Frozen Section of Surgical Specimens: 90% within CAP Guidelines of 20 minutes.		
Gram Stains	All CSF gram stains (positive or negative)	
CRITICAL RESULTS (The following test results will be called based on defined result ranges and policies listed above)		
CHEMISTRY		
Ammonia	>150 umol/L	
Bilirubin, Total	>12 mg/dL at <one day="" old<="" td=""></one>	
·	>15 mg/dL all others	
Calcium	<6 or >14 mg/dL	
Carbon Dioxide	<10 or >40 mEq/L	
СРК	>4000 U/L	
HCO3	<10 or >40 mEq/L	
Glucose	<50 or >300 mg/dL	
Ionized Calcium	<1.5 mEq/L	
Lactate	>45 mg/dL	
Lead	>30 ug/dL	
Magnesium	<1.2 or >6.6 mg/dL	
pCO2	<15 or >70 mm Hg	
pН	<7.2 or >7.6	
Phosphorus	<2 - >10 mg/dL	
pO2 (Arterial)	<40 mm Hg	
Potassium	<2.5 or >6.5 mEq/L	
Sodium	<124 or >156 mEq/L	
Triglycerides	>3000 mg/dL	
Uric Acid	>10 mg/dL	

<sup>\*</sup>Critical values are posted in the on-line laboratory handbook.

COAGULATION			
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Fibrinogen	<80 mg/dL		
Protime (PT)	>17 seconds		
PT (INR)	>1.7		
WPT (INR) Patients on	<1.4 or >3.5		
warfarin therapy			
PTT	>48 seconds		
Thrombin Time	>25 seconds		
Heparin Unfractionated	>1.0 IU/mL		
HEMATOLOGY		HEM/ONC CLINICS	
Hemoglobin	<7.0 gm/dL	<5.0 gm/dL	
Hematocrit	<21 or >65%	Notification not required	
Platelets	<50,000 or >1,000,000	<5,000	
WBCs	Newborn <5,000 or >35,000	Notification not required	
	Others <2,000 or >25,000		
Morphology	Presence of Blasts; however, if the presence of Blasts has		
	been reported within the last 1	14 days no notification is	
	necessary.		
CEREBROSPINAL FLUID			
Protein	>150 mg/dL		
Glucose	<31 mg/dL		
MICROBIOLOGY/VIROLOGY			
AFB	Positive		
Blood Culture	Positive		
Body Fluid (sterile) Culture	Positive		
CSF Culture	Positive		
Fungal Culture – Syst Infect			
TOXICOLOGY			
Acetaminophen	>25 ug/mL		
Carbamazepine	>20 ug/mL		
Gentamicin, Random	>40 ug/mL		
Gentamicin, Peak Conv.	>12 ug/mL		
Gentamicin, Trough Conv.	>3 ug/mL		
Gentamicin, Post Dose Extended Interval	>40 ug/mL		
Lithium	>1.5 mmol/L		
Methotrexate	>1 umol/mL		
Phenobarbital	>60 ug/mL		
Phenytoin	>30 ug/mL		
Salicylate	>30 mg/dL		
Tobramycin	>10 ug/mL		

Valproic Acid	>200 ug/mL
Vancomycin	>50 ug/mL
Urine Toxicology Screen	Any positive

## **BLOOD BANK**

Any undue delay in transfusing a patient due to the inability to find a compatible product or due to the unavailability of a product.

Acute hemolytic or anaphylactic reaction.

Identification of a blood product as potentially contaminated by bacteria after the unit has been transfused.

## REFERENCE LAB

Any critical limit phoned as defined by the reference laboratory.

Updated: 11/12/2024