

CRITICAL VALUES (02/29/08)

The values listed below will be called to the caregiver immediately if thought to be unexpected for the patient. If the laboratory is unable to reach the caregiver, the Chief Resident on call will be contacted.

BLOOD BANK:

1. Positive Coombs test in investigation of hemolytic disease of newborn.
2. Any of following during investigation of a transfusion reaction:
 - a. Positive Coombs test
 - b. Visible unexplained hemolysis in post-transfusion reaction patient sample
 - c. New incompatible crossmatch of transfused product
 - d. Clerical or serological error that could cause acute hemolysis in patient, i.e. Group A red cells transfused to Group O patient.
 - e. Presence of positive gram stain or culture of implicated blood component
3. Lookback notice for viral diseases transmitted by blood transfusions.
4. Incompatible crossmatch of red cells transfused as uncrossmatched.

CORE LAB:

Absolute granulocyte count	<1,000
Absolute granulocyte count (Ascites or Peritoneal fluid)	≥ 250
Antithrombin III	<0.5 U/mL
Bilirubin (< 6 weeks)	≥12 mg/dL
Newborn 3 -5 days	> 12.0 mg/dL
Calcium	≥ 13.0 mg/dL
	≤ 6.0 mg/dL
Carboxyhemoglobin	≥ 20%
Carbon dioxide	≥40 mmol/L
	≤10 mmol/L
DPL Cell count	WBC ≥ 500
	RBC ≥100,000
Factors	<0.1 U/mL
Factor VIII Inhibitor	Inhibitor present
Fibrinogen	<80 mg/dL
Glucose, plasma	≥500 mg/dL (inpatient)
	≥400 mg/dL (outpatient)
	≤50 mg/dL (inpatient)
	≤60 mg/dL (outpatient)
newborn:	≥300 mg/dL
	≤40 mg/dL

spinal fluid:	≤40 mg/dL
Hematocrit	<15%
Hemoglobin	<5.0 g/dL
Ionized calcium	≤3.0 mg/dL
	≥6.5 mg/dL
Iron (< 16 years)	≥200 µg/dL
Ketones, urine (adult)	≥80 mg/dL
Ketones, urine (newborn to 1 yr)	Pos
Methemoglobin	≥20%
Lithium	>1.5 mmol/L
Malaria smear prep	Positive
Magnesium	≤1.0 mg/dL
	≥4.5 mg/dL (except OB patients)
Partial thromboplastin time	>120 sec (inpatient)
	>60 sec (outpatient)
Prothrombin Time	INR ≥ 6.0
pCO ₂	≥60 mmHg
pH	≤7.25
	≥7.60
Phosphorus	≤1.0 mg/dL
pO ₂ , Arterial	≤60 mmHg
newborn:	≤50 mmHg ≥300
Platelet count	<10,000 or >1,000,000
Potassium	≥6.5 mmol/L (inpatient)
	≥6.0 mmol/L (outpatient)
	<3.0 mmol/L
Reducing Substance, urine (Newborn to 1 yr)	Pos
Sodium	≥165 mmol/L
	≤120 mmol/L
WBC count	<2,000 or >80,000

MICROBIOLOGY:

- Positive fungal cultures
- Positive blood cultures – called to physician
- Positive AFB smears
- Positive gram smears on CSF

Recovery of Salmonella species
Recovery of Shigella species
Recovery of organisms from smear negative CSF
Recovery of Mycobacterium tuberculosis when a negative smear has been reported
Recovery of yeast from sterile body fluids
Recovery of Pseudomonas species from eye cultures
Positive viral cultures
Positive Chlamydia cultures
Recovery of Campylobacter species
Positive Cryptococcal Antigen
Positive latex agglutination tests from CSF
Positive HSV PCR on CSF
Positive Enteroviral PCR on CSF
Positive MRSA PCR on a patient in the NICU
Positive viral loads (any virus) by PCR from any source
Positive prions
Positive qualitative viral PCRs from any source
Positive Histoplasma, Blastomyces, Streptococcal or Legionella urinary antigen
Positive galactomannan

SPECIAL CHEMISTRY LAB:

HIV Positive
Toxicology/TDM All suprathreshold levels
Cortisol >60 µg/dL