

Updated Critical Values to go Live 6/23/22

Laboratory Critical Values – Asante Laboratories		
BLOOD BANK		
Suspected hemolytic transfusion reaction	Unit to call the lab	
Suspected TRALI	Pathologist to call provider	
HEMATOLOGY		
	LESS THAN	GREATER THAN
WBC	2000 / μ L	50,000 / μ L
HGB	7 g/dL	20 g/dL
HGB(0-30 days old or NICU)	8.5 g/dL	22g/dL
HCT	21%	60%
HCT (0-30 days old or NICU)		65%
Platelets	20,000 / μ L	1,000,000 / μ L
Differential Morphology on blood and fluid smears	<ul style="list-style-type: none"> • Call blasts with first smear on admission 	
	<ul style="list-style-type: none"> • Call blasts with first outpatient smear within the last 7 days 	
	<ul style="list-style-type: none"> • Blood parasites on the first smear within 30 days 	
COAGULATION		
	LESS THAN	GREATER THAN
PT-INR		5
PT-INR (0-30 days old or NICU)		1.5
PTT		100 sec
FIB	100 mg/dL	
CHEMISTRY		
	LESS THAN	GREATER THAN
Bilirubin, Total (0-30 days old or NICU)		17 mg/dL
Calcium (Total)	6.5 mg/dL	13.0 mg/dL
Calcium, Ionized	0.8 mmol/L	1.6 mmol/L
Glucose, Serum	50 mg/dL	500 mg/dL
Glucose, Serum (0-30 days old or NICU)	40 mg/dL	250 mg/dL
Lactate		4 mmol/L
Magnesium	1.4 mg/dL	5.0 mg/dL
Methotrexate (24 hours post transfusion)		5.0 μ mmol/L
Methotrexate (48 hours post transfusion)		0.5 μ mmol/L
Methotrexate (72 hours post transfusion)		0.05 μ mmol/L
Phosphorous	1.0 mg/dL	8.9 mg/dL
Phosphorous (0-30 days old or NICU)	3.0mg/dL	8.9 mg/dL
Potassium (K)	3.0 mmol/L	6.0 mmol/L

Potassium (K) (0-30 days old or NICU)	3.0 mmol/L	6.9 mmol/L
Sodium (Na)	120 mmol/L	160 mmol/L
Sodium (Na) (0-30 days old or NICU)	126 mmol/L	160 mmol/L
TCO ₂	10 mmol/L	40 mmol/L
Troponin-I		> 0.3 ng/mL
THERAPEUTIC DRUGS		
	LESS THAN	GREATER THAN
Acetaminophen		50 µg/mL
Carbamazepine		15 µg/mL
Digoxin		2.5 ng/mL
Gentamicin (Peak)		12.0 µg/mL
Gentamicin (Trough)		2.0 µg/mL
Tobramycin (Peak)		12.0 µg/mL
Tobramycin (Trough)		2.0 µg/mL
Lithium (Trough)		1.5 mmol/L
Phenobarbital		60 µg/mL
Phenytoin (Dilantin)		30 µg/mL
Salicylate		30 mg/dL
Valproic Acid		150 µg/mL
Vancomycin (Trough)		25 µg/mL
Vancomycin (Random)		50 µg/mL
MICROBIOLOGY		
All gram stains from sterile body fluid/tissue sites	Any organism present on the smear must be called within 30 minutes of resulting.	
Blood Cultures	Positive direct smears or cultures	
CSF/Sterile Body Fluids/Tissue	Positive direct smears or cultures	
Level III organisms <i>Bacillus anthracis</i> , <i>Francisella spp</i> , <i>Brucella spp</i> , <i>Yersinia spp</i> .	All positive results	
BLOOD GAS (ARTERIAL)		
	LESS THAN	GREATER THAN
pH	7.2	7.6
pCO ₂	20 mmHg	70 mm Hg
pO ₂	50 mm Hg	