

System Laboratory Administration Attachment - Laboratory Critical Values

The ranges for the diagnostic tests listed below have been identified as “critical” by the laboratory in conjunction with the medical staff. Any value which exceeds these limits will be called to the responsible licensed healthcare provider within 30 minutes after the test result is confirmed. To ensure accuracy and patient safety, laboratory personnel will request the provider read back the results they have been given.

Test	Age > 3 months		Age 0-3 months	
	</= to	>/= to	</= to	>/= to
Chemistry				
Bilirubin (mg/dl)	n/a	n/a	n/a	18.0
Calcium (mg/dl)	6.0	13.0	6.0	13.0
Calcium, Ionized (mg/dl)	3.0	7.0	3.0	7.0
Creatinine (mg/dl)				
(non-renal/dialysis patient only)	n/a	7.5	n/a	7.5
Ethanol g/dl	n/a	0.40	n/a	0.40
Glucose (mg/dl)	55	450	25	200
	3 months to	6 months:	40	450
Potassium (mmol/L)	2.8	6.2	3.0	6.5
Lactic Acid (Lactate) mmol/L	n/a	4.0	n/a	4.0
Magnesium (mg/dl)	0.7	8.1	0.7	8.1
Phosphorus (mg/dl)	0.9	12.5	0.9	12.5
Sodium (mmol/L)	120	160	125	155
Blood Gas	</= to	>/= to	</= to	>/= to
Carbon Monoxide (%)	n/a	15.0	n/a	15.0
Total CO2 (mmol/L)	n/a	n/a	16.0	n/a
pH, arterial, venous or capillary	7.20	7.60	7.20	7.60
pH, cord blood gas	n/a	n/a	7.05	7.50
pCO2, arterial, or capillary (mm Hg)	20	70	30	70
pO2, arterial, or capillary (mm Hg)	50	none	n/a monitored by pulse ox	n/a monitored by pulse ox
Therapeutic Drugs	</= to	>/= to	</= to	>/= to
Acetaminophen (ug/ml)	n/a	40	n/a	40
Caffeine (ug/ml)	n/a	n/a	n/a	30
Dilantin/Phenytoin (ug/ml)	n/a	40	n/a	40
Digoxin (ng/ml)	n/a	2.5	n/a	2.5
Depakene/Valproic Acid (ug/ml)	n/a	200	n/a	200
Lithium (mmol/L)	n/a	2.0	n/a	2.0
Phenobarbital (ug/ml)	n/a	60	n/a	60
Salicylate (mg/dl)	n/a	30	n/a	30
Tegretol/Carbamazepine (ug/ml)	n/a	20	n/a	20

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Test	Age > 3 months		Age 0-3 months	
	</= to	>/= to	</= to	>/= to
Theophylline (ug/ml)	n/a	25	n/a	25
Hematology	</= to	>/= to	</= to	>/= to
Hematocrit (%)	15	75	20	70
Hemoglobin (gm/dl)	6.0	n/a	6.0	n/a
Platelet (x10 ⁹ /L)	30	1,000	20	n/a
WBC (x10 ⁹ /L)	1.0	100.0	1.0	100.0
CSF WBC (/mm ³)	n/a	25	n/a	25
Coagulation	</= to	>/= to	</= to	>/= to
Prottime/INR (ratio)	n/a	5.0	n/a	5.0
PTT (seconds)	n/a	105	n/a	105
Fibrinogen (mg/dl)	100	n/a	100	n/a
Microbiology				
Any Positive: Blood: PCR test or Culture AFB: Stain, PCR test or Culture CSF: Gram Stain, PCR test or Culture				

Laboratory Critical Tests

The diagnostic tests listed below have been identified as “critical” by the laboratory in conjunction with the medical staff. All results for these tests are called to the responsible licensed healthcare provider.

- Rapid HIV for exposures
- Transfusion Reactions
- Frozen Tissue Sections

Version Number	Change Summary	Effective Date
2	New Version	07/21/2021