

System Laboratory Administration Attachment - Laboratory Critical Values

Version Number	Change Summary	Effective Date
6	Update outpatient glucose and addition of pediatric specific	11/5/2024
	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 (or adult)		Age 0-3 months (or other)	
Chemistry	= to</th <th>>/= to</th> <th><!--= to</th--><th>>/= to</th></th>	>/= to	= to</th <th>>/= to</th>	>/= to
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)	n/a	>7.50	<2 years:	2.00
Creatinine (mg/dl)			2-11 years:	2.50
Creatinine (mg/dl)			12-16 years:	3.00
AKI Acute Kidney Alert (pediatric only)			<= 16 years:	Level 3
Ethanol g/dl	n/a	0.40	n/a	0.40
	40 outpatient			
Glucose (mg/dl)	55 non outpatient	450	40	200
Glucose (mg/dl)		3-6 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</td <td>>/= to</td> <td><!--= to</td--><td>>/= to</td></td>	>/= to	= to</td <td>>/= to</td>	>/= 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
			n/a monitored	n/a monitored
pO2, arterial samples only (mm Hg)	50	none	by pulse ox	by pulse ox
Therapeutic Drugs	= to</td <td>>/= to</td> <td><!--= to</td--><td>>/= to</td></td>	>/= to	= to</td <td>>/= to</td>	>/= 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



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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
Theophylline (ug/ml)	n/a	25	n/a	25
Hematology	= to</td <td>>/= to</td> <td><!--= to</td--><td>>/= to</td></td>	>/= to	= to</td <td>>/= to</td>	>/= 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 (/mm³)	n/a	25	n/a	25
Coagulation	= to</td <td>>/= to</td> <td><!--= to</td--><td>>/= to</td></td>	>/= to	= to</td <td>>/= to</td>	>/= to
Protime/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 Cultu	re			
AFB: Stain, PCR test or C	ulture			
CSF: Gram Stain, PCR tes	st 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