

**PROVIDENCE ALASKA MEDICAL CENTER
ADULT & PEDIATRIC CRITICAL VALUES
November 2014**

ADULT CRITICAL VALUES- ADM.QI.004

CHEMISTRY		HEMATOLOGY	
Analyte	Critical Values	Analyte	Critical Values
Calcium	-- >14 mg/dL	WBC	<500/ μ L >100,000 μ L*
C02 (serum & plasma only)	<10 >40 mmol/L	Hemoglobin	< 6.0 g/dL > 21 g/dL
Glucose	<40 >600 mg/dL	Hematocrit	< 20 > 60%
Phosphorus	<1.0 -- mg/dL	Platelet	<20,000/ μ L
Magnesium	<1.0 >5 mg/dL		
Potassium	<2.5 >6.5 mmol/L		
Sodium	<120 >160 mmol/L	COAGULATION	
Lactate	-- >4.0 mmol/L		Critical Values
MICROBIOLOGY Critical Values		INR	-- > 5.5
		Protime	-- >65 Seconds
		PTT	-- >100 Seconds
Positive malarial smear Positive cryptococcal antigen in CSF Positive results from Gram stain or culture from blood and cerebrospinal fluid in inpatients		Fibrinogen	<75 mg/dL
		THERAPEUTIC DRUGS	
		Analyte	Critical Values
		Carbamazepine	-- >15 μ g/mL
		Digoxin	-- >3 ng/mL
		Dilantin	-- >30.0 μ g/mL
		Gentamicin Peak	-- >12.0 μ g/mL
		Gentamicin Trough	-- >2.1 μ g/mL
		Lidocaine	-- >6.0 μ g/mL
		Lithium	-- >2.0 mmol/L
TRANSFUSION SERVICES Critical Values		NAPA & Proc Total	-- >30.0 μ g/mL
Transfusion reaction investigation suggestive of an acute hemolytic, Transfusion-Related Acute Lung Injury (TRALI), or anaphylactic reaction Red blood cell that were issued on an emergency basis and later found to be incompatible <hr/> * First time elevated white blood cell counts in patients with leukemia. Do not call similar counts on repeat testing.		Phenobarbital	-- >60.0 μ g/mL
		Procainamide	-- >12.0 μ g/mL
		Quinidine	-- >5.0 μ g/mL
		Theophylline	-- >22.0 μ g/mL
		Tobramycin Peak, Not single dosing	-- >12.0 μ g/mL
		Tobramycin Trough Not single dosing	-- >2.1 μ g/mL
		Valproic Acid	-- >150 μ g/mL
		Vancomycin Trough	-- >20 μ g/mL
		Vancomycin Random	-- >45 μ g/mL
		Vancomycin Peak	-- >80.0 μ g/mL

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PEDIATRIC CRITICAL VALUES - ADM.QI.004

CHEMISTRY		HEMATOLOGY	
Analyte	Critical Values	Analyte	Critical Values
Ammonia	-- > 200 mg/dL	WBC	> 50,000/uL
Bilirubin, Direct	-- > 1.0 mg/dL	ANC ≤ 30 days	<1.0
Bilirubin, Total	-- > 18 mg/dL	ANC > 30 days	<0.5
BUN	-- > 100 mg/dL	Hemoglobin	< 7.0 g/dL > 22.0 g/dL
Calcium	< 6 > 13 mg/dL	Hematocrit	< 25 % --
CO2	<10 > 45 mmol/L	Platelet	< 30,000/μL --
Creatinine	-- > 2 mg/dL	COAGULATION	
Glucose	< 40 > 200 mg/dL	Analyte	Critical Values
Magnesium	< 1.0 > 4.4 mg/dL	INR	-- > 5.5
Phosphorus	< 1.0 > 10 mg/dL	PT	-- > 65 Sec
Potassium	< 2.7 > 6.5 mmol/L	PTT	-- >100 Sec
Sodium	< 120 > 160 mmol/L	Fibrinogen	< 75 mg/dL --
Lactate	-- > 4 mmol/L	Factor Activity	< 5%
MICROBIOLOGY Critical Values		THERAPEUTIC DRUGS	
Positive malarial smear		Analyte	Critical Values
Positive cryptococcal antigen		Carbamazepine	> 15 μg/mL
Positive results from Gram stain or culture from blood and cerebrospinal fluid		Digoxin	> 3.0 μg/mL
<ul style="list-style-type: none"> ▪ Physician if outpatient ▪ Nursing staff if inpatient 		Dilantin	> 30 μg/mL
		Ethanol	Any
		Gentamicin Peak	> 12 μg/mL
		Gentamicin Trough	> 2.1 μg/mL
		Lidocaine	> 6.0 μg/mL
		Lithium	> 2 mmol/L
TRANSFUSION SERVICES Critical Values		NAPA & Proc Total	> 30 μg/mL
		Phenobarbital	> 60 μg/mL
		Procainamide	> 12 μg/mL
Newborn Positive Direct Coombs Test (DAT)		Theophylline	> 22 μg/mL
		Tobramycin Peak	> 12 μg/mL
Hemolytic Transfusion Reaction, Transfusion related acute lung injury (TRALI), or anaphylactic reaction		Not single dosing	
		Tobramycin Trough	> 2.1 μg/mL
		Not single dosing	
		Valproic Acid	> 150 μg/mL
		Vancomycin Trough	> 20 μg/mL
		Vancomycin Random	> 45 μg/mL
		Vancomycin Peak	> 80 μg/mL