




## Critical and Super-Critical Values

reviewed 5/12/2010

TEST	LOW	HIGH	REFERENCE RANGE	UNITS
<b>SUPER-CRITICAL VALUES</b>				
Protime "INR"		6.0 or Greater	0.9 - 1.2	
Usual oral anticoag range			2.0 - 3.0	
High level oral anticoag range			2.5 - 3.5	
Sodium	LT 115	GT 165	135 -145	mmol/L
Potassium	LT 2.5	GT 7.0	0-30 days   3.9-6.9 1-12 mo     3.6-6.8 1-5 yrs     3.2-5.7 5-10 yrs    3.4-5.4 10 yrs+     3.5-5.3	mmol/L
Glucose	LT 30	GT 700	Adult: 65 - 99           Pregnant Adult: 65-94	mg/dL
Calcium	LT 5	GT 15	8.5 - 10.5	mg/dL
Total Bilirubin (Pediatric)		GT 11.9	0 - 30 days   LT 11.7 1 mo. - 18 yrs   LT 2.0 18 - 60 yrs    0.1 - 1.5 60 - 90 yrs    0.2 - 1.1 90 yrs+        0.2 - 0.9	mg/dL
<b>HEMATOLOGY</b>				
Hematocrit	LT 19	GT 65	Male: 40 - 50 Female: 35 - 46	% %
Hemoglobin	LT 6.7	GT 23	Male: 13.7 - 16.7 Female: 11.6 - 15.5	g/dL g/dL
WBC	LT 1.0	GT 50	4.0 - 11.0	K/uL
Platelet Count	LT 30	GT 1,000	150 - 400	K/uL
<b>CRITICAL VALUES</b>				
<b>CHEMISTRY:</b>				
Total Bilirubin (Pediatric)		GT 11.9		mg/dL
Calcium	LT 6	GT 14	8.5 - 10.5	mg/dL
Total CO2	LT 10	GT 40	0-10 days   13-22 11 days-4 yrs 20-28 5+ yrs       22-31	mmol/L
CPK		GT 5000	Male: 25 - 287 Female: 20 - 200	U/L
Creatinine		GT 6.0	Male: 0.5 - 1.3   Female: 0.4 - 1.0	mg/dL
Glucose	LT 40	GT 500	Adult: 65 - 99	mg/dL
Potassium	LT 3.0	GT 6.1	Pregnant Adult: 65 - 94 0-30 days   3.9-6.9 1-12 mo     3.6-6.8 1-5 yrs     3.2-5.7 5-10 yrs    3.4-5.4 10 yrs+     3.5-5.3	mmol/L
Magnesium	LT 1.0	GT 7.0	1.5 - 2.4	mg/dL
Sodium	LT 120	GT 160	135 - 145	mmol/L
Urea Nitrogen		GT 90	7 - 23	mg/dL
Blood Lead		GT 70	LT 40 (Adult)	ug/dL
Phosphorus	LT 1.0	GT 8.9	0-10 days   4.2-9.6 10 days-24 mo 4.2-7.2 24 mo-12 yrs 4.2-5.9 12-60 yrs   2.5-4.8 60 yrs+ M   2.1-3.9 60 yrs+ F   2.6-4.4	mg/dL

Troponin		GT 0.29		ng/ml
VitD2D3 by LC/MS/MS		Peds (under 18): ≥ 80 Adult: ≥ 150		ng/ml
Sirolimus		≥ 25		ng/ml
Tacrolimus		≥ 25		ng/ml
Cyclosporin A		> 600		ng/ml
<b>COAGULATION</b>				
Protime			Nonmedicated: 11.9 - 15.0	sec
INR		GT 4.5	0.9 - 1.2	
Usual oral anticoag range			2.0 - 3.0	
High level oral anticoag range			2.5 - 3.5	
PTT		GT 110	26 - 35	sec
<b>URINALYSIS/BODY FLUIDS</b>				
Ketoacidosis				
Glucose		GT 500	Negative	mg/dL
Ketones		GT 40	Negative	mg/dL
				
<b>PAML TOXIC AND THERAPEUTIC VALUES</b>				
<b>DRUG</b>		<b>TOXIC</b>	<b>THERAPEUTIC</b>	<b>UNITS</b>
<b>ANTICONVULSANTS</b>				
Carbamazepine (Tegretol)		GT 15	4-12	ug/mL
Ethosuximide (Zarontin)		GT 100	40 - 100	ug/mL
Phenobarbital (Luminal)		GT 50	15 - 40	ug/mL
Phenytoin (Dilantin)		GT 25	10-20	ug/mL
Primidone (Mysoline)		GT 15	5-12	ug/mL
Valproic Acid (Depakene)		GT 150	50 - 100	ug/mL
<b>ANTI-ARRHYTHMICS &amp; CARDIAC GLYCOSIDES</b>				
Digitoxin		GT 35	10-32	ng/mL
Digoxin		GT 2.5	0.8 - 2.0	ng/mL
Disopyramide (Norpace)		GT 7	2-5	ug/mL
Lidocaine		GT 6	1.5 - 5.0	ug/mL
Procainamide & NAPA		GT 40	10-30	ug/mL
Procainamide (Pronestyl)		GT 16	4-10	ug/mL
Quinidine		GT 7	2-5	ug/mL
<b>ANTIBIOTICS</b>				
Amikacin	Trough	GT 8	4-8	ug/mL
	Peak	GT 35	10-30	ug/mL
Chloramphenicol		GT 25	10-20	ug/mL
Gentamicin	Trough	GT 2	1-2	ug/mL
	Peak	GT 12	5-10	ug/mL
Tobramycin	Trough	GT 2	1-2	ug/mL
	Peak	GT 12	5-10	ug/mL
Vancomycin	Trough	GT 25	5-15	ug/mL
	Peak	GT 50	25 - 40	ug/mL
<b>BRONCHODILATOR</b>				
Theophylline		GT 20	10-20	ug/mL
<b>ANTI-INFLAMMATORY / ANALGESIC</b>				
Acetaminophen		GT 150	10-25	ug/mL
Salicylate		GT 15	2-10	mg/dL
		GT 150	20 - 100	ug/dL
<b>IMMUNOSUPPRESSANT</b>				
Cyclosporin	HPLC	GT 600	100 - 200 Kidney	ng/mL

			200 - 300 Pancreas, liver, & heart	ng/mL
	TDX	GT 600	150 - 250 all transplants	ng/mL
<b>PSYCHOACTIVE</b>				
Amitriptyline (Elavil) & Nortriptyline		GT 499	80 - 220	ng/mL
Desipramine (Norpramine)		GT 499	150 - 300	ng/mL
Doxepin (Sinequan)		GT 499	150 - 250	ng/mL
Imipramine (Tofranil) & Desipramine		GT 499	150 - 250	ng/mL
Lithium		GT 2.0	0.5 - 1.5	mmol/L
Nortriptyline (Aventyl)		GT 499	50 - 150	ng/mL
Protriptyline		GT 400	70 - 240	ng/mL