

Critical Lab Values

BMP

Test	Normal Range	Critical Values
Calcium	8.6 - 10 mg/dl	≤ 6, ≥ 13 mg/dl
Cl-	99 - 109	< 80, > 115 mEq/L
Gluc.	74 - 106 mg/dl	< 40, > 450 mg/dl
K+	3.5 - 5.5	< 2.8, ≥ 6.2
Na++	132 - 146 mEq/L	≤ 120, ≥ 160 mEq/L
BUN	9 - 23	≥ 80 mg/dl
Creat. (Female)	0.5 - 1.1 mg/dl	> 4 mg/dl
Creat. (Male)	0.7 - 1.3 mg/dl	> 4 mg/dl
Total protein	6.4 - 8.3 g/L	
Albumin	3.2 - 4.8 g/L	

CBC

Test	Normal Range	Critical Values
Hgb	12.0 - 16.0	≤ 6.0, ≥ 20 g/dl
Hct (Female)	37 - 47	≤ 18%, ≥ 60%
Hct (Male)	40 - 54	≤ 18%, ≥ 60%
WBC	5.2 - 12.4	≤ 2.0, ≥ 30,000
RBC (Female)	4.2 - 5.4	
RBC (Male)	4.6 - 6.19	
Platelets	130,000 - 400,000	≤ 40,000, ≥ 999,000
Ultra-Toponin	0.006 - 0.039	0.040 - 0.779 (high), > 0.78 (critical)

Serum Drug Levels

Drug	Therapeutic Range	Critical Value
Carbamazepine	4 - 10 mcg/ml	> 15 mcg/ml
Digoxin	0.8 - 2.0 mg/dl	> 2.0 mg/dl
Gentamycin	peak - 5 - 10 mcg/ml valley - < 2.0 mcg/ml	> 10 mcg/ml
Phenobarbital	15 - 40 mcg/ml	> 40 mcg/ml
Phenytoin	10 - 20 mcg/ml	> 20 mcg/ml
Theophylline	10 - 20 mcg/ml	> 20 mcg/ml
Tobramycin	peak - 5 - 10 mcg/ml valley - 0.5 - 2.0 mcg/ml	> 10 mcg/ml
Valproic Acid	50 - 100 mcg/ml	> 125 mcg/ml
Vancomycin	peak - 25 - 40 mcg/ml valley - 5 - 15 mcg/ml	> 30 mcg/ml

Anticoagulant Related and Clotting

Test	Normal Range	Critical Value
PT	9.0 - 11.7 sec.	> 80 sec.
INR (coumadin)	0.9 - 1.2	> 6
PTT (Heparin Monitoring)	55.0 - 75.0 sec.	> 70 sec.
APTT (therapeutic)	23.3 - 31.9 sec.	SJH ≤ 19 , ≥ 100 sec SJE No low, ≥ 100 sec
Fibrinogen	203 - 377 mg/dl	≤ 100.0 , ≥ 600.0 mg/dl

ABG's Norms

Parameter	Normal Range
pH	7.35 - 7.45
pCO ₂	35 - 45
pO ₂	80 - 100
HCO ₃	22 - 25
BE	-2 / +2
O ₂ sat	> 95