



LIFE THREATENING CRITICAL VALUES LIST

DMC University Laboratories telephone clients when test results are significantly abnormal (critical).

All “Life-threatening & Critical Values” will be phoned to the physician as soon as possible 24 hours per day and 7 days a week.

Physician/Clinic Requirement: The physician must have a valid phone number, pager, or answering service available to receive phone calls with critical and life threatening values.

LIFE THREATENING LIST: This list *cannot* be modified & will be called 24/7.

Test Name	Critical Value	Reference Range
Blood Culture	Positive	Negative
Calcium	≤6.0 mg/dl	8.0-10.6 mg/dl
CSF Culture or gram stain	Positive	Negative
Digoxin	>2.5 ng/dl	0.5-2.0 ng/dl
Glucose	≤40 mg/dl or >600 mg/dl	70-99 mg/dl
Hemoglobin	≤7 g/dl	Male: 13.3-17.1 g/dl Female: 11.5-15.1 g/dl
Platelets	≤50,000 k/cumm	150-450,000 k/cumm
Potassium	≤3.0 or ≥7.0 mmol/l (non-hemolyzed)	3.5-5.3 mmol/l
Quinidine	>10 ug/ml	1.5-4.5 ug/ml
Salicylate	>30 mg/dl	2.8-20.0 mg/dl
Sodium	≤100 mmol/l	135-147 mmol/l

NON LIFE THREATENING CRITICAL VALUES LIST

This list *may* be modified in value and callback time. If no modifications are made, they will be called 24/7.

Custom Modifications per Physician:

- Please see your Sales Representative for the necessary paperwork to sign that you agree to the custom changes.
- If you have customized callback values, please annually review your list, with your Sales Representative or Sales Technical Service Representative, to make sure that your values are correct and up-to-date.

CRITICAL VALUES		
Test Name	Critical Value	Reference Range
Acetaminophen	>50 ug/ml	10-30 ug/ml
Amikacin: Peak	≥30 ug/ml	20-30 ug/ml
Trough	>10 ug/ml	5-10 ug/ml
Amitriptyline	≥400 ng/ml	120-250 ng/ml
Amitriptyline & Nortriptyline	≥400 ng/ml	95-200 ug/ml
Nortriptyline	≥300 ng/ml	50-150 ug/ml
Amylase	>300 u/L	24-115 u/L
Bicarbonate	≤10 or >40 mmol/L	21-32 mmol/l
Bilirubin, Neonatal	>12 mg/dl	0.6-11.1 mg/dl
Bilirubin, Total	>12 mg/dl	0.0-1.5 mg/dl
BUN	≥60 mg/dl	<2 years 5-18 mg/dl
	>60 mg/dl	>2 years 7-20 mg/dl
Calcium, Total	<7 or >12 mg/dl	8.0-10.6 mg/dl
Calcium, Ionized	≤0.9 or >1.5 mmol/l	1.13-1.32 mmol/l
Carbamazepine: Free	>4 ug/ml	2-3 ug/ml
Total	>15 ug/ml	6-12 ug/ml
Carbon Dioxide (venous)	≤10 or >40	21-32 mmol/l
Chloride	≤80 or >120 mmol/l	96-112 mmol/l
CK	>700 u/l	35-350 u/l
Creatinine	>3 mg/dl	0.4-1.2 mg/dl
Cyanide	>50 ug/dl	0-20 ug/dl
Desipramine	>300 ng/ml	150-250 ng/ml
Diazepam	>3 mcg/ml	0.2-1.0 mcg/ml
Digitoxin	>35 ng/ml	10-32 ng/ml
Digoxin	>2.5 ng/ml	0.5-2.0 ng/ml
Disopyramide	>7.0 ug/ml	2.0-5.0 ug/ml
Doxepin & Nordoxepin	>400 ng/ml	100-300 ng/ml
Ethchlorvynol	>40 mcg/ml	1.0-7.0 mcg/ml
Ethosuximide	>200 ug/ml	40-100 ug/ml
Fibrinogen	≤100 or >800 mg/dl	158-474 mg/dl
Flurazepam	>.3 ug/ml	0.01-0.14 ug/ml
Gentamicin: Peak	≥14 ug/ml	4-12 ug/ml
Trough	>2 ug/ml	0-2 ug/l
Glucose	≤50 or >350 mg/dl	70-99 mg/dl

CRITICAL VALUES continued		
Test Name	Critical Vales	Reference Range
Hematocrit	≤ 18 or $\geq 60\%$ ≤ 18 or $\geq 60\%$	Male: 38.9-49.7% Female: 34.4-44.2%
Hemoglobin	≤ 7 or ≥ 20 g/dl ≤ 7 or ≥ 20 g/dl	Male: 13.3-17.1 g/dl Female: 11.5-15.1 g/dl
Imipramine & Desipiramine	>400 ng/ml (total)	150-350 ng/ml
Lead	>44 ug/dl	0-9 ug/dl
Lidocaine	>9 ug/ml	1.2-5.0 ug/ml
Lithium	>2.0 mmol/l	0-1.5 mmol/l
Lorazepam	>300 ng/ml	50-240 ng/ml
Magnesium	<1 or >6 mg/dl	1.6-3 mg/dl
Meprobamate	>40 mcg/ml	5-20 mcg/ml
Osmolality	<270 or >320 mosm/kg	275-305 mosm/kg
PH	<7.2 or >7.60	7.30-7.40
Phenobarbital, Total	>50 ug/ml	15.0-40.0 ug/ml
Phenytoin: Free Total	≥ 4 ug/ml >30 ug/ml	1.0-2.0 ug/ml 10-20 ug/ml
Platelet	<50 or >1000 k/cumm	150-450 k/cumm
Potassium	<3 or >6.5 mmol/l	3.5-5.3 mmol/l
Primidone, Total	>15 ug/ml	5.0-12.0 ug/ml
Procainamide & NAPA Procainamide n-Acetyl Procainamide	≥ 12.1 ug/ml >35.1 ug/ml	4.0-10.0 ug/ml 6.0-20.0 ug/ml
Protriptyline (Vivactil)	>500 ng/ml	70-240 ng/ml
PT	≥ 35 seconds	9.6-11.8 seconds
INR	>3.08	0.9-1.10
PTT	>80.1 seconds	23.2-34.1 seconds
PCO ₂ (arterial)	≤ 20 or ≥ 70 mmHg	38-40 mmHg
PO ₂ (arterial)	<39	40-60 mmHg
Quinidine	>10 ug/ml	1.5-4.5 ug/ml
Reptilase Time	≥ 17 seconds	9.0-12.0 seconds
Salicylate	>30 mg/dl	2.8-20.0 mg/dl
Sodium	<120 or >160 mmol/l	135-147 mmol/l
Theophyline	≥ 30 ug/ml	10-20 ug/ml
Tobramycin: Peak Trough	≥ 12 ug/ml ≥ 2 ug/ml	4.0-10.0 ug/ml 0.0-2.0 ug/ml
Troponin I	≥ 0.2 ng/ml	.00-.056 ng/ml
Uric Acid	>12 mg/dl	3.5-7.2 mg/dl
Valproic Acid, Total	>100 ug/ml	50-100 ug/ml
Vancomycin: Peak Trough	≥ 80.1 ug/ml >20.1 ug/ml	20-40 ug/ml 5-10 ug/ml
WBC	<1.5 or >15 k/cumm	3.5-10.6 k/cumm

Culture/PCR/Misc Critical Values

CRITICAL VALUES		
Test Name	Critical Value	Reference Range
Acid Fast Culture	Positive	Negative
Acid Fast Smear	Positive	Negative
BK PCR	Positive detected >250	Negative
C Difficile Toxin PCR	Positive	Negative
CMV PCR	Positive detected >250	Negative
EBV PCR	Positive detected >120	Negative
Enterovirus PCR	Positive	Negative
Herpes Culture <6 months	Positive	Negative
HIV Western Blot	Positive	Negative
HSV PCR	Positive	Negative
Influenza Antigen	Positive	Negative
Malaria Smear	Positive	Negative
MTB PCR	Positive	Negative
RSV Antigen Rapid	Positive	Negative
Rotavirus, EIA	Positive	Negative
Stool Culture	Positive for Enteric Pathogen (ie. Campylobacter, Salmonella, Shigella)	Negative
Virus Culture (Not Herpes I or II)	Positive	Negative
VZV PCR	Positive	Negative