

63 MUST KNOW LAB VALUES



Complete Blood Count (CBC) with Differential

Value	Abbreviation	Unit	Normal
Red Blood Cell	RBC	$\times 10^6/\text{mCL}$	Male: 4.5 - 5.5 Female: 4.0 - 4.9
White Blood Cell	WBC	cells/mCL	4,500 - 10,000
Neutrophils		%	40 - 60
Band Forms		%	3 - 5 (>8 = left shift)
Eosinophils		%	1 - 4
Basophils		%	0.5 - 1
Lymphocytes		%	20 - 40
Monocytes		%	2 - 8
Platelets	PLT	cells/mCL	100,000 - 450,000
Hemoglobin	Hgb	g/dL	Male: 13.5 - 16.5 Female: 12.0 - 15.0
Hematocrit	Hct	%	Male: 41 - 50 Female: 36 - 44
Mean Corpuscular Volume	MCV	fL	80 - 100
Red Cell Distribution Width	RDW	%	<14.5

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Blood Chemistry (Basic Metabolic Panel) (BMP)

Value	Abbreviation	Unit	Normal
Sodium	Na ⁺	mEq/L	135 - 145
Potassium	K ⁺	mEq/L	3.5 - 5.5
Chloride	Cl ⁻	mEq/L	96 - 108
Glucose	Glu	mg/dL	70 - 115
Calcium	Ca ²⁺	mg/dL	8.4 - 10.2
Creatinine	Cr	mg/dL	0.7 - 1.40
Blood Urea Nitrogen	BUN	mg/dL	7 - 20

Cholesterol Levels

Value	Abbreviation	Unit	Normal
Cholesterol Total		mg/dL	<200
Low Density Lipoprotein	LDL	mg/dL	<70
High Density Lipoprotein	HDL	mg/dL	>60 optimal
Triglycerides	TG	mg/dL	<150

Coagulation Studies

Value	Abbreviation	Unit	Normal
Prothrombin Time	PT	Seconds	11 - 14
Partial Thromboplastin Time	PTT	Seconds	25 - 35
International Normalized Ratio	INR		0.8 - 1.2
Activated Partial Thromboplastin Time	aPTT	Seconds	30-40

Arterial Blood Gas

Value	Abbreviation	Unit	Normal
pH	pH		7.35 - 7.45
Partial Pressure of CO ₂	PaCO ₂	mmHg	35 - 45
Partial Pressure of O ₂	PaO ₂	mmHg	80 - 100
Bicarbonate	HCO ₃	mEq/L	22 - 26
Base Excess	BE	mEq/L	-2 - +2
Oxygen Saturation	SaO ₂	%	95 - 100

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Common Laboratory Tests

Value	Abbreviation	Unit	Normal
Albumin	Alb	g/dL	3.5 - 6.0
Alkaline Phosphatase	Alk Phos	U/L	40 - 130
Aspartate Aminotransferase	AST	U/L	12 - 37
Alanine Aminotransferase	ALT	U/L	13 - 69
Activated Partial Thromboplastin Time	aPTT	Seconds	30-40
Ammonia	NH ₃	mcg/dL	19 - 60
Amylase		U/L	0 - 130
Base Excess (Arterial)	BE	mEq/L	-2 - +2
Bicarbonate (Arterial)	HCO ₃	mEq/L	22 - 26
Bilirubin, Direct (Conjugated)		mg/dL	0 - 0.2
Bilirubin, Total	T.billi	mg/dL	0.1 - 1.2
Blood Urea Nitrogen	BUN	mg/dL	7-20
Brain Type Natriuretic Peptide	BNP	pg/mL	<100
C-Reactive Protein	CRP	mg/L	<1.0
Calcium	Ca ²⁺	mg/dL	8.4 - 10.2
Chloride	Cl ⁻	mEq/L	96 - 108
Cholesterol Total		mg/dL	<200
Creatinine	Cr	mg/dL	0.7-1.40
Creatinine Clearance		mL/min	85 - 125
Creatine Kinase	CK	U/L	55 - 170
Creatine Kinase MB	CK-MB	ng/mL	<2.40
D-Dimer	DDI	ng/mL	≤ 250
Erythrocyte Sedimentation Rate	ESR	mm/h	0 - 20
Ferritin		ng/mL	20-300
Folic Acid		ng/mL	2 - 20
Glomerular Filtration Rate	GFR	mL/min/1.73m ²	90-120
Glucose	Glu	mg/dL	70 - 115
Glucose Tolerance Test	GTT	mg/dL	Fasting: 60-100 1 hour: <200 2 hours: < 140
Glycosylated Hemoglobin	HgbA1c	% of total Hgb	5.6-7.5
Growth Hormone	GH	ng/mL	Male: <5 Female: < 10
Hematocrit	Hct	%	Male: 41 - 50 Female: 36 - 44
Hemoglobin	Hgb	g/dl	Male: 13.5 - 16.5 Female: 12.0 - 15.0

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Common Laboratory Tests

Value	Abbreviation	Unit	Normal
High Density Lipoprotein	HDL	mg/dL	>60 optimal
Homocysteine		mg/L	0.54 - 2.3
International Normalized Ratio	INR		0.8 - 1.2
Iron	Fe	µg/dL	50-175
Lactate Dehydrogenase	LDH	U/L	88-230
Lactic Acid		mEq/L	Venous Blood: 0.5-2.2 Arterial Blood: 0.5-1.6
Lipase		U/L	0 - 160
Low Density Lipoprotein	LDL	mg/dL	<70
Magnesium	Mg	mg/dL	1.6 - 2.6
Mean Corpuscular Volume	MCV	fL	80 - 100
Myoglobin	MB	ng/mL	5 - 70
Osmolality, Serum		mOSM/kg	261-280
Oxygen Saturation (Arterial)	SaO ₂	%	95 - 100
Partial Pressure of (Arterial) CO ₂	PaCO ₂	mmHg	35 - 45
Partial Pressure of (Arterial) O ₂	PaO ₂	mmHg	80 - 100
Partial Thromboplastin Time	PTT	Seconds	25 - 35
pH (arterial)	pH		7.35 - 7.45
Phosphorus (phosphate)	PO ₄	mg/dL	3.0-4.5
Platelets	PLT	cells/mcL	100,000 - 450,000
Potassium	K ⁺	mEq/L	3.5 - 5.5
Prealbumin	PAB	mg/dL	19-38
Prostate Specific Antigen	PSA	ng/mL	Male: < 4 Female: < 0.5
Protein (total)	Prot	g/dL	6-8
Prothrombin Time	PT	Seconds	11 - 14
Red Blood Cell	RBC	x10 ⁶ /ml	Male: 4.5 - 5.5 Female: 4.0 - 4.9
Red Cell Distribution Width	RDW		<14.5
Sodium	Na ⁺	mEq/L	135 - 145
Triglycerides	TG	mg/dL	<150
Total Iron Binding Capacity	TIBC	µg/dL	250-460
Troponin I	cTnI	ng/mL	<0.035
White Blood Cell	WBC	cells/mcL	4,500 - 10,000

These lab tables are an excerpt from "Lab Values: 63 Must Know Labs for NCLEX" you can download the book [HERE](#) on Amazon.com.