

# Comprehensive Metabolic Panel Normal Ranges

March 23, 2004

ANALYTE	AGE/SEX	REF. RANGE
Albumin	-----	3.5-4.8 gm/dL
Alkaline Phosphatase (ALP)	0 - 1 yr 1 - 5 yrs 5 - 10 yrs 10 - 16 yrs 16 - 18 yrs > 18 yrs	50 - 380 IU/L 85 - 320 IU/L 110 - 350 IU/L 85 - 380 IU/L 65 - 225 IU/L 25 - 100 IU/L
Alanine Aminotransferase (ALT)	Male Female	10 - 45 IU/L 7 - 35 IU/L
Aspartate Aminotransferase (AST)	Male Female	12 - 38 IU/L 8 - 34 IU/L
Bilirubin, Total	0-1 day 1-2 days 2-5 days 5 days-1 mo >1mo	<6.0 mg/dL <8.0 mg/dL <12.0 mg/dL <10.0 mg/dL 0.2-1.3 mg/dL
Calcium (Ca)	0 - 10 days 10 days - 24 mo 24 mo - 12 yrs > 12 yrs	7.6 - 10.4 mg/dL 9.0 - 11.0 mg/dL 8.8 - 10.8 mg/dL 8.4 - 10.2 mg/dL
Carbon Dioxide (CO <sub>2</sub> )	-----	22-32 mmol/L
Chloride (Cl)	-----	98-107 mmol/L
Creatinine	Male Female	0.7-1.3 mg/dL 0.6-1.1 mg/dL
Glucose	0-1 mo > 1 mo	45-90 mg/dL 65-110 mg/dL
Potassium (K)	0-12 mo > 12 mo	3.5-6.0 mmol/L 3.5-5.0 mmol/L
Protein, Total	-----	6.0-8.0 gm/dL
Sodium (Na)	-----	135-144 mmol/L
Urea Nitrogen (UN)	0-7 days > 7 days	3 - 12 mg/dL 8 - 20 mg/dL

# CBC with Differential Normal Ranges

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Procedure	Male	Female	Units
WBC	4.8 - 10.8	4.8 - 10.8	K/cumm
RBC	4.7 - 6.1	4.2 - 5.4	M/cumm
HGB	14.0 - 18.0	12.0 - 16.0	gm/dL
HCT	42.0 - 52.0	37.0 - 47.0	%
MCV	80.0 - 94.0	91.0 - 99.0	fL
MCH	27.0 - 31.0	27.0 - 31.0	uugm
MCHC	32.0 - 36.0	32.0 - 36.0	gm/dL
RDW	11.5 - 14.5	11.5 - 14.5	%
PLT	140 - 440	140 - 440	K/cumm
MPV	7.4 - 10.4	7.4 - 10.4	fL
Neutrophil	50 - 75	45 - 70	%
Lymphocyte	20 - 45	20 - 45	%
Monocyte	0 - 10	0 - 10	%
Eosinophil	0 - 5	0 - 5	%
Basophil	0 - 2	0 - 2	%
Abs. Neutrophil	2.4 - 8.1	2.2 - 7.6	K/cumm
Abs. Lymph	1.0 - 4.9	1.0 - 4.9	K/cumm
Abs. Mono	0.0 - 1.1	0.0 - 1.1	K/cumm
Abs. Eos	0.0 - 0.5	0.0 - 0.5	K/cumm
Abs. Baso	0.0 - 0.2	0.0 - 0.2	K/cumm