

BLOOD INTERPRETATION

OPTIMUM	CLINICAL	TEST	RESULTS
85 - 100	65 - 115	Glucose	(I) -Diabetes, Hyperthyroid, Chronic Nephritis (D) - Hyperinsulinism, Liver Destruction, Hypothyroidism
13 - 18	5 - 25	BUN	(I)-Renal Impairment,Augmented Nitrogen Catabolism, Addison (D)-Acute Liver Destruction, Chronic Wasting
0.7 - 1.5	0.6 - 1.5	Creatinine	(I) - Urinary Obstruction, Nephritis, Hyperthyroidism (D) - Amyotonia Congenita
4.5 - 8.0	2.2 - 7.7	Uric Acid	(I) -Gout, Diabetes, Urinary Obstr. Nephritis, Hemolytic Anemia (D) -Poor Protein Digestion, Salicylate & Atrophine Therapy,
140 - 144	135 - 147	Sodium	(I)- Nephritis, Renal Congestion, Hypercorticoadrenalism (D) - Dehydration, Diarrhea, Infections, Addison's Disease
4.0 - 4.6	3.5 - 5.3	Potassium	(I) -Diarrhea Acidosis, Infections, Nephropathies, Addison's (D) - Nephritis,Diuretics, Anemia, Malignancies, Diabetics
100 - 106	96 - 109	Chloride	(I) - Dehydration, Nephritis, Urinary Obstruction, Anemia, (D) -Acidosis- Diarrhea / Diabetic, Emphysema, Pneumonia
3.2 - 3.9	2.5 - 4.5	Phosphorus	(I)-Ex-Vit D, Renal Insuff, Nephritis, Fractures, Hypoparathyroid (D)-Hyperparathyroid, Osteomalacia, Myxedema, Pneumonia
9.7 - 10.1	8.5 - 10.8	Calcium	(I) - Ex-Vit D, Hyperparathyroid, Carcinoma, Multiple Myeloma (D) - Vit D defic., Malnutrition, Hypoparathyroid, Osteomalacia
7.1 - 7.6	6.0 - 8.5	Total Protein	(I)-Carcinoma, Multiple Myeloma, Pneumonia, Anhydremia (D) - Liver Disease, Mal-nutrit, Anemia, Leukemia, Hypothyroid
4.0 - 4.4	3.5 - 5.5	Albumin	(I) - Dehydration (D) - Hepatitis, Cirrhosis, Malnutrition, Nephrosis, Mult-Sclerosis
2.8 - 3.5	0.5 - 4.5	Globulin	(I)- Hepatitis, Multiple Myeloma, Malignancy, Parasitic Infection (D) - Hemorrhage, Anemia,
0.5 - 0.7	0.1 - 1.2	Bilirubin	(I)- Blood Cell Disorder, Liver Damage, Bile Duct Obstruction (D) -Secondary Aplastic Anemia
60 - 90	25 - 140	Alk. Phos	(I)-Bone Lesion, Invasive Hepatic Lesion, Bile Duct Obstruction (D)-Anemia, Hypothyroid, Chronic Nephritis, Osteolyti-Sarcoma
18 - 26	0 - 40	SGOT	(I)-MI, Liver Disease, Muscle Injury, Pul-Embolism, Mono, Panc (D) - None. "B-6 Supplement"
18 - 26	0 - 45	SGPT	(I)-Acute/Toxic Hepatitis,Hepatocellular Damage, Extra-Hep Ob (D) - None. "Fatty Congestive Liver"
120 - 160	0 - 240	LDH	(I)-Celluar Destruction - (Liver, Heart, Skeletal, Lung, Bone,) (D) - None.
1 - 40	0 - 70	GGT	(I)-Alcoholic, Hepatic Disease, Bone Disease, Pancreatic >325 (D) - None.
85 - 130	35 - 175	Iron	(I)-Pernicious & Aplastic Anemia, Hepatitis, Iron TX, Marrow Dy (D)-Hypochromic Anemia, Nephrosis, Infection, Bleeding, Liver
70 - 115	30 - 200	Triglyceride	(I)-Hyperlipidism, Diabetes, Chronic Pancreatitis > 500 (D) - None.
150 - 180	130 - 200	Cholesterol	(I)-Hyperlipidemia, Diabetes, Hypothyroid, Nutritional (D) -Liver Disease, Infection, Malignancy, Hyperthyroid, Anemia
60 - 90	35 - 90	HDL	(D) - Hyperlipidemia
< 2.0	< 3.00	LDL / HDL	(I)- Increased Cardiovascular Risk.
< 3.1	< 4.00	Chol / HDL	(I)- Increased Cardiovascular Risk.
13 - 16	7.5 - 18.5	BUN/CREAT	(I)-Catabolic State,Dehydration, Renal Failure, Diet, UT Obstruc (D) - Overhydration-antidiuretic Hormone, Diet,
2.2-2.5	2.03 - 2.71	Ca/Albumin	(I)-Malnutrition, Visceral Protein Loss, Protein Deficiency (D)-None.
1.2 - 1.5	> 1.0	ALB/GLOB	(I) - None. (D) - Hepatic, Nephritis, Carcinomia, Diabetic, Anemia, CHF

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2.2 - 2.5	1.5 - 2.5	Magnesium	(I) - Renal Insufficiency (D) - Malabsorption, Malnutrition, Diarrhea, Diabetic, Hyper Vit D
26 - 30	23 - 33%	T 3	(I) - Hyperthyroid, Hepatitis, Lung Disorder, Carcinoma, Nephrosis (D) - Hypothyroid, Anovulatory Drugs (birth control), Simmonds,
7 - 8.5	5.0 - 13.4	T 4	(I) - Hyperthyroid, Hepatitis, Anovulatory Drugs (birth control) (D) - Hypothyroid, Nephrosis, Simmonds Disease
1.9 - 2.5	1.0 - 3.4	T 7	(I) - Hyperthyroid (D) - Hypothyroid
5.0 - 7.5	3.7 - 10.5	WBC	(I) - Infection, Leukemia, Myeloproliferative Disease -CA (D) - Aleukemic Leukemia, Bone Marrow Depression
4.5 - 5.5	3.8 - 5.10	RBC	(I) - Dehydration, Polycythemia, Cardiac Disease, (D) - Anemia, Leukemia, Oligocythemia, Spleen, Acute Bleeding
14.0 - 15.0	11.5 - 15.0	HGB	(I) - Dehydration, Polycythemia (D) - Anemia
40 - 50	34.0 - 44.0	HCT	(I) - Dehydration, Polycythemia, (D) - Anemia
85 - 97	80 - 98	MCV	(I) - Macrocytic Anemia, Bone Marrow Dysfunction (D) - Microcytic Anemia
27 - 31	27 - 34.0	MCH	Weight of Iron In The Cell
32 - 36	32 - 36	MCHC	Concentration of Iron In The Cell
55 - 65%	40 - 74%	Neutrophils	(I) - Bacterial Infection, Intoxication, Hemorrhage, Malignant Neoplasm (D) - Bone Marrow Depression
25 - 40%	14 - 46%	Lymphocytes	(I) - Acute Viral Infections, Food Allergies, Normal Youth, Goiter (D) - Chronic Late Stage Viral Infection, Spleen, Bone Marrow Dep.
3 - 7%	4 - 13%	Monocytes	(I) - Bacterial & Protozoal Infection, Hodgkin's, Pre-leukemia (D) - Corticosteroid Treatment,
0 - 2%	0 - 7%	Eosinophils	(I) - Allergic Reaction, Parasitic Disease, Blood Dyscrasias, Ovary Tum (D) - None.
0 %	0 - 3%	Basophils	(I) - Infections, Toxic Allergies, Blood Dyscrasias, Hodgkin's (D) - None.
190 - 250	140 - 415	Platelets	(I) - Polycythemia, Myeloproliferative Disorder (D) - Thrombocytopenis (bone / Immuno), Leukemia, Liver Cirrhosis

URINALYSIS INTERPRETATION

1.010 - 1.025	1.000 - 1.030	Specific Gravity	(I) - Diabetes, Dehydration, Fever, Vomiting, Diarrhea (D) - Diabetes Insipidus, Glomerulonephritis, Pyelonephritis, renal Dis
Negative	Negative	Leukocytes	(I) - Bacteria - Pyuria,
Negative	Negative	Nitrite	(I) - Bacteriuria, Azo-dye /metabolites, Ascorbic Acid,
6	4.6 - 8	pH	(Acid) - Diabetes, Diarrhea, Dehydration, Emphysema, (Basic) - Pyloric Obstruct, Sacicylates, Renal Tubular, Hyperventilation
Negative	Trace	Protein	(I) - Glomerular damage, Nephrosis, Polycystic Kidneys, Stones, Trauma, Anemia, Leukemia, Hyperthyroid, Hepatic, Infection
Negative	Negative	Glucose	(I) - Diabetes, Brain Injury, MI, Pregnancy / Lactation, Ascorbic Acid,
Negative	Negative	Ketone	(I) - Diabetes, Fever, Diarrhea, Starvation, Vomiting, Children,
0.1 - 1	0.1 - 1	Urobilinogen	(I) - Hemolytic Anemia, Hepatitis, CHF, Mono, Liver Damage, Poison
Negative	Negative	Bilirubin	(I) - Hepatitis, Liver Disease, Jaundice,
Negative	Negative	Blood	(I) - UTI, Lupus, Hypertension, Glomerulonephritis, Smokers, Acute Bacterial Endocarditis, Poison, Hemolytic Anemia, Drugs