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| **BLOOD TEST REFERENCE RANGE CHART** | | |
| **Test** | **Reference Range (conventional units\*)** | |
| 17 Hydroxyprogesterone (Men) | 0.06-3.0 mg/L | |
| 17 Hydroxyprogesterone (Women) Follicular phase | 0.2-1.0 mg/L | |
| 25-hydroxyvitamin D (25(OH)D) | 8-80 ng/mL | |
| Acetoacetate | <3 mg/dL | |
| Acidity (pH) | 7.35 - 7.45 | |
| Alcohol | 0 mg/dL (more than 0.1 mg/dL normally indicates intoxication) (ethanol) | |
| Ammonia | 15 - 50 µg of nitrogen/dL | |
| Amylase | 53 - 123 units/L | |
| Ascorbic Acid | 0.4 - 1.5 mg/dL | |
| Bicarbonate | 18 - 23 mEq/L (carbon dioxide content) | |
| Bilirubin | Direct*:* up to 0.4 mg/dL Total*:* up to 1.0 mg/dL | |
| Blood Volume | 8.5 - 9.1% of total body weight | |
| Calcium | 8.2 - 10.6 mg/dL (normally slightly higher in children) | |
| Carbon Dioxide Pressure | 35 - 45 mm Hg | |
| Carbon Monoxide | Less than 5% of total hemoglobin | |
| CD4 Cell Count | 500 - 1500 cells/µL | |
| Ceruloplasmin | 15 - 60 mg/dL | |
| Chloride | 98 - 106 mEq/L | |
| Complete Blood Cell Count (CBC) | Tests include: [hemoglobin](http://www.bloodbook.com/ranges.html#Hemoglobin), [hematocrit](http://www.bloodbook.com/ranges.html#Hematocrit), [mean corpuscular hemoglobin](http://www.bloodbook.com/ranges.html#Mean Corpuscular), [mean corpuscular hemoglobin concentration](http://www.bloodbook.com/ranges.html#Corpuscular Hemoglobin), [mean corpuscular volume](http://www.bloodbook.com/ranges.html#Corpuscular Volume), [platelet count](http://www.bloodbook.com/ranges.html#Platelet), [white Blood cell count](http://www.bloodbook.com/ranges.html#White)  Please click each to view an individual test value. | |
| Copper | Total*:* 70 - 150 µg/dL | |
| Creatine Kinase (CK or CPK) | Male*:* 38 - 174 units/L  Female*:* 96 - 140 units/L | |
| Creatine Kinase Isoenzymes | 5% MB or less | |
| Creatinine | 0.6 - 1.2 mg/dL | |
| Electrolytes | Test includes: [calcium](http://www.bloodbook.com/ranges.html#Calcium), [chloride](http://www.bloodbook.com/ranges.html#Chloride), [magnesium](http://www.bloodbook.com/ranges.html#Magnesium), [potassium](http://www.bloodbook.com/ranges.html#Potassium), [sodium](http://www.bloodbook.com/ranges.html#Sodium) Please click each to view an individual test value. | |
| Erythrocyte Sedimentation Rate (ESR or Sed-Rate) | Male*:* 1 - 13 mm/hr Female*:* 1 - 20 mm/hr | |
| Glucose | Tested after fasting: 70 - 110 mg/dL | |
| Hematocrit | Male*:* 45 - 62% Female*:* 37 - 48% | |
| Hemoglobin | Male*:* 13 - 18 gm/dL Female*:* 12 - 16 gm/dL | |
| Iron | 60 - 160 µg/dL (normally higher in males) | |
| Iron-binding Capacity | 250 - 460 µg/dL | |
| Lactate (lactic acid) | Venous*:* 4.5 - 19.8 mg/dL Arterial*:* 4.5 - 14.4 mg/dL | |
| Lactic Dehydrogenase | 50 - 150 units/L | |
| Lead | 40 µg/dL or less (normally much lower in children) | |
| Lipase | 10 - 150 units/L | |
| Zinc   B-Zn | 70 - 102 µmol/L | |
| **Lipids:** | | |
| Cholesterol | Less than 225 mg/dL (for age 40-49 yr; increases with age) | |
| Triglycerides | 10 - 29 years | 53 - 104 mg/dL |
| 30 - 39 years | 55 - 115 mg/dL |
| 40 - 49 years | 66 - 139 mg/dL |
| 50 - 59 years | 75 - 163 mg/dL |
| 60 - 69 years | 78 - 158 mg/dL |
| >  70 years | 83 - 141 mg/dL |
| Liver Function Tests | Tests include [bilirubin (total)](http://www.bloodbook.com/ranges.html#Total), [phosphatase (alkaline)](http://www.bloodbook.com/ranges.html#50-160), [protein (total and albumin)](http://www.bloodbook.com/ranges.html#6.0-8.4), [transaminases (alanine and aspartate)](http://www.bloodbook.com/ranges.html#Transaminase), [prothrombin (PTT)](http://www.bloodbook.com/ranges.html#Prothrombin)  Please click each to view an individual test value. | |
| Magnesium | 1.9 - 2.7 mEq/L | |
| Mean Corpuscular Hemoglobin (MCH) | 27 - 32 pg/cell | |
| Mean Corpuscular Hemoglobin Concentration (MCHC) | 32 - 36% hemoglobin/cell | |
| Mean Corpuscular Volume (MCV) | 76 - 100 cu µm | |
| Osmolality | 280 - 296 mOsm/kg water | |
| Oxygen Pressure | 83 - 100 mm Hg | |
| Oxygen Saturation (arterial) | 96 - 100% | |
| Phosphatase, Prostatic | 0 - 3 units/dL (Bodansky units) (acid) | |
| Phosphatase | 50 - 160 units/L (normally higher in infants and adolescents) (alkaline) | |
| Phosphorus | 3.0 - 4.5 mg/dL (inorganic) | |
| Platelet Count | 150,000 - 350,000/mL | |
| Potassium | 3.5 - 5.4 mEq/L | |
| Prostate-Specific Antigen (PSA) | 0 - 4 ng/mL (likely higher with age) | |
| **Proteins:** | | |
| Total | 6.0 - 8.4 gm/dL | |
| Albumin | 3.5 - 5.0 gm/dL | |
| Globulin | 2.3 - 3.5 gm/dL | |
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| Prothrombin (PTT) | 25 - 41 sec | |
| Pyruvic Acid | 0.3 - 0.9 mg/dL | |
| Red Blood Cell Count (RBC) | 4.2 - 6.9 million/µL/cu mm | |
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| Sodium | 133 - 146 mEq/L | |
| Thyroid-Stimulating Hormone (TSH) | 0.5 - 6.0 µ units/mL | |
| **Transaminase:** | | |
| Alanine (ALT) | 1 - 21 units/L | |
| Aspartate (AST) | 7 - 27 units/L | |
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| Urea Nitrogen (BUN) | 7 - 18 mg/dL | |
| BUN/Creatinine Ratio | 5 - 35 | |
| Uric Acid | Male | 2.1 to 8.5 mg/dL (likely higher with age) |
| Female | 2.0 to 7.0 mg/dL (likely higher with age) |
| Vitamin A | 30 - 65 µg/dL | |
| WBC (leukocyte count and white Blood cell count) | 4.3-10.8 × 103/mm3 | |
| White Blood Cell Count (WBC) | 4,300 - 10,800 cells/µL/cu mm | |