

Name of Test	Purpose	Normal Range	High Results Mean	Low Results Mean
<b>BUN</b> (Blood Urea Nitrogen)	Indirect measure kidney function	<b>10 – 20</b>	Low blood volume/ dehydration, shock, HF, kidney disease, drug toxicity	Liver failure, cirrhosis, overhydration, nephrotic syndrome
<b>Creatinine (Cr)</b>	Diagnose impaired kidney function	Male: <b>0.6 – 1.2</b> Female: <b>0.5–1.1</b>	Kidney disease, heart failure, muscle disease	Debilitation, decreased muscle mass
<b>Specific Gravity</b> (Urinalysis)	Measure urine particle concentration	<b>1.010 – 1.030</b>	Dehydration, pituitary tumor, hypotension, HF, liver failure	Distal renal tubular disease, polycystic kidney disease, overhydration, diabetes insipidus
<b>Amylase (AMS)</b>	Detects & monitors pancreatitis	<b>60 – 120</b>	Pancreatitis	
<b>Glucose (serum)</b>	Blood sugar level	<b>70 – 105</b>	Diabetes, stress response, Cushing's, hyperthyroidism, acute/chronic pancreatitis	Too much insulin production/overdose, hypothyroidism, Addison's, liver disease
<b>Cholesterol (serum)</b>	Risk for CAD	<b>&lt; 200</b>	Family high cholesterol/lipid	Malabsorption, malnutrition
<b>CBC</b>				
<b>RBC</b>	Evaluate anemia	Male: <b>4.5 – 5.3</b> Female: <b>4.1–5.1</b>	Illness, high altitude, congenital heart disease, COPD	Anemia, hemorrhage, liver cirrhosis
<b>WBC</b>	Evaluates infection or immunosuppression	<b>5,000 – 10,000</b>	Infection, leukemic cancer, steroid usage, severe sepsis	Drug toxicity, bone marrow failure, overwhelming infections, lupus
<b>Hemoglobin (Hgb)</b>	Rapid indirect measurement of RBC count	Male: <b>13 – 18</b> Female: <b>12 – 16</b>	Congenital heart disease, dehydration, COPD	Anemia, cirrhosis, hemorrhage
<b>Hematocrit (Hct)</b>	Indirect measurement of red blood cell number and volume	Male: <b>42 – 52%</b> Female: <b>36–46%</b>	Congenital heart disease, dehydration, COPD	Anemia, cirrhosis, hemorrhage
<b>Platelet</b>	Blood ability to clot	<b>150,000 – 400,000</b>	Malignant disorders, rheumatoid arthritis, anemia	Hemorrhage, infection, cancer therapy
<b>Coagulation Studies</b>				
<b>PT</b> (Prothrombin time)	Tests extrinsic clotting	<b>11 – 15 seconds</b>	Anticoagulation therapy, DIC, hepatic disease, malabsorption	Digitalis therapy, diuretic action, vitamin K therapy
<b>PTT</b> (Partial thromboplastin time)	Tests coagulation mechanisms	<b>60 – 70 seconds</b>	Deficiency factors, anticoagulation therapy	Extensive cancer, DIC
<b>APTT</b> (Activated PTT)	More sensitive than PTT	<b>30 – 45 seconds</b>		
<b>INR</b> (International Normalized Ratio)	Test for coagulation	<b>&gt; 1.5 – 2.0</b> <small>*Higher for prosthetic valve</small>	Blood too thin, warfarin (Coumadin) therapy	Blood too thick
<b>D-Dimer</b>	Assess for breakdown of a venous clot (DVT, PE)	<b>&lt; 0.5</b>	DIC, recent surgery, active or recent bleeding, TE, pregnancy, liver disease, inflammation, malignancy, hypercoagulable states	