

## Chemistry Panel/CBC

This test requires fasting.

This panel is a comprehensive blood evaluation including the following 35 tests:

- **Glucose, fasting:** This test directly measures glucose levels and is commonly used in the evaluation of diabetes.
- **Uric acid:** This test is used in the evaluation of gout or recurrent urinary calculi.
- **BUN (blood urea nitrogen):** This test is used to measure liver function and indirectly to assess renal function and glomerular filtration rate.
- **Creatinine:** This is a renal function test used to estimate glomerular filtration rate, and follow progression of renal disease.
- **BUN/Creatinine ratio:** This test is used to diagnose impaired renal function. With creatinine, BUN is used to monitor individuals on dialysis.
- **Sodium:** This routine test is used to evaluate and monitor fluid and electrolyte balance and therapy.
- **Potassium:** This routine test is used to evaluate and monitor electrolyte balance and is especially important for cardiac individuals.
- **Chloride:** This test by itself does not provide adequate information. However, as part of a multiphasic testing for electrolytes it can give an indication of acid-base balance and hydrational status.
- **Calcium:** This test is used to evaluate parathyroid function and calcium metabolism.
- **Phosphorus:** This test is used to measure serum phosphorus. An imbalance could indicate the possibility of any number of conditions.
- **Protein/Albumin/Globulin:** This test is used to assist in the detection of many diseases that affect blood proteins as a whole or one single fraction of protein.
- **Albumin/Globulin Ratio:** This test is used to evaluate renal disease and other chronic disease.
- **Bilirubin:** This test is used to evaluate liver function
- **Alkaline Phosphatase:** This test is used to detect and monitor liver and/or bone disease.
- **LDH (Lactic dehydrogenase):** This test measures the intracellular enzyme LDH which, when present in the blood, can support the detection of injury or disease.
- **AST (SGOT):** This test is used to evaluate the possibility of coronary occlusive heart disease or liver disease.
- **ALT (SGPT):** This test is used to identify liver disease and to distinguish between the liver and red blood cell hemolysis as the source of jaundice.
- **Iron:** This test is used to evaluate many disease including iron deficiency anemia and hemochromatosis.
- **Cholesterol:** This test is used to determine the risk of coronary heart disease (CHD) and hyperlipidemias.
- **Triglycerides:** This test is used to identify the risk of developing coronary heart disease or if fat metabolism disorders are suspected.
- **HDL Cholesterol:** This test measures alpha lipoprotein and is used to predict heart disease.
- **LDL Cholesterol:** This test measures beta lipoproteins and is used to predict heart disease.
- **Total Cholesterol/HDL Ratio:** This test is used to determine the risk for coronary heart disease.
- **CBC (complete blood count) with platelets and differential:** This is a series of tests of the peripheral blood which provides a variety of information about the blood components. This series includes the following tests:
  - **Red blood cell count**
  - **Hemoglobin**
  - **Hematocrit**
  - **Red blood cell indices**
  - **Mean corpuscular hemoglobin**
  - **Mean corpuscular hemoglobin concentration**
  - **Red blood cell distribution**
  - **White blood cell count**
  - **Differential count**
  - **Platelet count**

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