

Commentary A SCITECHNOL JOURNAL

Importance of Blood Count in Medical Diagnosis

Yun Chan*

Department of Medicine, Stanford University, Palo Alto, USA

*Corresponding author: Yun Chan, Department of Medicine, Stanford University,

Palo Alto, USA; E-mail: yunchan@hotmail.com

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Description

A Complete Blood Count (CBC) is a laboratory test that determines the quantity and quality of various blood components. The test evaluates red blood cells, white blood cells, and platelets. A complete blood count is a standard test used to check for a variety of medical disorders and to track various medical treatments. The CBC is a reasonably basic test that is normally performed with a little blood sample obtained *via* venipuncture. The blood is delivered to a laboratory, where it is processed using automated technology. The test results are usually available within a few hours.

The CBC gives vital information about a person's overall health and can aid in the diagnosis of a number of medical disorders.

Some of the CBC's important components

CBC stands for Complete Blood Count, which is a blood test that measures various components of blood. The CBC typically includes several important components, including:

Red Blood Cells (RBCs): RBCs are in charge of transporting oxygen throughout the body. A CBC counts the number of RBCs in a person's blood as well as their size and shape. RBC abnormalities may suggest anemia, a condition in which there are insufficient RBCs, or other blood problems.

White Blood Cells (WBCs): WBCs are an important component of the immune system that aid in the fight against infections. A Complete Blood Count (CBC) determines the number and type of WBCs in a

person's blood. WBC levels that are high can suggest infection, inflammation, or leukemia, whereas WBC numbers that are low can indicate bone marrow abnormalities or viral infections.

Platelets: Platelets are in charge of blood clotting. A Complete Blood Count (CBC) determines the quantity of platelets in a person's blood. Platelet counts that are low can suggest bleeding issues, whereas platelet counts that are high can indicate bone marrow diseases or other medical conditions.

Hemoglobin (Hb): Hemoglobin is a protein found in red blood cells that transports oxygen. A complete blood count determines the amount of haemoglobin in a person's blood. Low haemoglobin levels can be indicative of anemia, whilst high levels can be indicative of dehydration or other medical issues.

Hematocrit (Hct): Hematocrit is a measurement of the proportion of blood made up of RBCs. A CBC determines a person's hematocrit level in their blood. Anemia can be indicated by low hematocrit levels, whereas high levels can be caused by dehydration or other medical disorders.

MCV (Mean Corpuscular Volume): MCV is a measurement of RBC size. The MCV level in a person's blood is measured *via* CBC. Anemia or other blood diseases might be indicated by abnormal MCV levels.

A CBC may also include other tests such as a differential white blood cell count, which measures the percentage of distinct types of WBCs in a person's blood, and a reticulocyte count, which counts the amount of young RBCs in a person's blood, in addition to these values.

The CBC is an important diagnostic test that can assist healthcare providers in identifying a variety of medical disorders. It is commonly used to screen for anemia, infection, and other blood abnormalities, as well as to assess the success of some medical therapies. A CBC, for example, may be performed before and after chemotherapy to assess the treatment's influence on a person's blood cells.

A CBC is not a definitive diagnostic technique and should be used in conjunction with other diagnostic procedures and clinical assessments. Abnormal CBC levels may necessitate additional tests to confirm a diagnosis.

A complete blood count is a basic laboratory test that offers important information about a person's general health. It assesses the quantity and quality of blood components such as RBCs, WBCs, platelets, hemoglobin, hematocrit, and MCV.

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