



Department of Forensic evidence



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Biology Lab

((Explain hematocrit, including the significance of values outside of the normal range))

Lab/10

1 stage

By

Msc. Zahraa Jawad Kadhim



Hematocrit: Hematocrit is the percentage of red blood cells in a person's blood. A typical hematocrit range in adults is 36–54%. However, age, sex, and health conditions can influence hematocrit levels.

Blood is made up of red blood cells, white blood cells and platelets, suspended in plasma. Together, those comprise about 45% of the volume of our blood, but the specific percentages of each can vary.

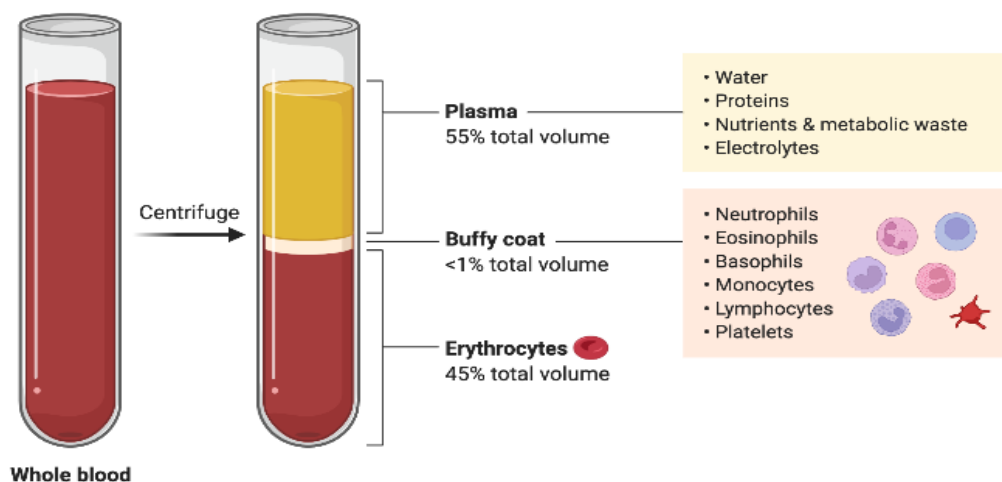
A level of 38% is considered the minimum needed for donating blood.

What Is Normal Hematocrit?

Normal hematocrit levels vary based on age and race.. In adults, normal levels for men range from 41%-50%. For women, the normal range is slightly lower: 36%-44%. A hematocrit level below the normal range, meaning the person has too few red blood cells, is called anemia. A hematocrit level above the normal range, meaning too many red blood cells, may indicate polycythemia or erythrocytosis.

Hematocrit

Blood and its components





What is a hematocrit test?

A hematocrit test (Hct) is a simple blood test that measures the percentage of red blood cells in your blood. Red blood cells are important because they carry oxygen throughout your body. Test results showing low or high hematocrit levels may be signs of blood disorders or other medical conditions

What Is the Difference Between Hematocrit and Hemoglobin

Hematocrit and hemoglobin measurements are both blood tests but they are not testing the same thing.

Hematocrit	Hemoglobin
Hematocrit is the percentage of red cells in your blood.	Hemoglobin enables red cells to transport oxygen and carbon dioxide throughout your body.
Normal levels of hematocrit for men range from 41% to 50%.	Normal hemoglobin for men ranges from 13.5 to 17.5 g/dL.
Normal level for women is 36% to 48%.	Normal range for women is 12.0 to 15.5 g/dL.