

Blood & Respiratory Definitions: (chapters 16 & 17)

Blood is made up of 55% PLASMA (water 92%, 7% proteins, 1% gases) AND

Plasma proteins: **THEY ALL COME FROM THE LIVER**

Albumin: (multiple types) source is the liver, contributes to **colloid osmotic pressure of plasma**, carrier of various substances

Globulin: (multiple types) source is the liver and lymphoid tissue, clotting factors, enzymes, antibodies, carrier of various substances.

Fibrinogen: **INACTIVE** source is the liver, **forms fibrin threads to clot blood**. Low plasma fibrinogen concentrations are associated with an increased risk of bleeding due to impaired primary and secondary hemostasis.

Transferrin: source is liver and other tissues, **for iron transport**

AND

three main cellular elements:

RED BLOOD CELLS (erythrocytes),

PLATELETS (buffy coat) (thrombocytes) BUT split off from megakaryocytes &

WHITE BLOOD CELLS (leukocytes) – immunity. Elevated white blood cells indicate a problem.

White blood cells are divided into 2 main groups: **NEVER LET MONKEYS EAT BANANAS**

Agranular leukocytes (NO granulars)

1. Lymphocytes – also called immunocytes
2. Monocytes – develop into macrophages, known as phagocytes

Granular leukocytes:

1. Neutrophils are phagocytes and granulocytes (highest in our body), for example. Any kind of infection will show a high count of this.
2. Eosinophils – also called granulocytes
3. Basophils – also called granulocytes; tissue basophils are called mast cells (lowest in our body)

HEMATOPOIESIS = MAKING BLOOD

ALL BLOOD CELLS PRODUCED IN THE BONE MARROW

Erythropoietin: A hormone that stimulates the **production of red blood cells in the bone marrow**.

Hematocrit: The percentage of blood volume occupied by red blood cells. **The ratio of red blood cells to plasma is expressed as a percentage.**

Erythropoietin (EPO) comes primarily from the kidney cells and influences red blood cells.

Thrombopoietin (TPO) comes primarily from the liver and influences megakaryocytes.

Human Physiology 400 Midterm Study Guide

John Field



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