

**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

**A Gutmann**



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