

Chapter 17 Blood

Blood Content:

plasma + formed elements

formed elements - living blood

"cells" suspended in plasma

- Erythrocytes - (RBCs) red blood cells
- Leukocytes - (WBCs) white blood cells
- Platelets - cell fragments



plasma

(Buffy coat)
- WBCs + platelets
- RBCs

plasma - non living fluid matrix

90% water		• nutrients
60% albumin		• hormones
36% Globulins		• wastes
4% fibrinogen		• gases
		• proteins

Sticky, opaque, metallic taste pH = 7.35 - 7.45
high O₂ - scarlet, low O₂ - dark red V = 5-6L men, 4-5L women

Blood function:

1. **Distribution** - delivering O₂ and nutrients to body cells; transporting metabolic wastes to lungs and kidneys for elimination; transporting hormones from endocrine organs to target organs
2. **Regulation** - maintaining body temp by absorbing and distributing heat; maintaining normal pH buffers; maintaining adequate fluid volume in circulatory system
3. **protection** - preventing blood loss - plasma proteins and platelets → clot formation; preventing infection

RBCs



Spectrin - provides flexibility to change shape • 97% hemoglobin form fib function

no nucleus

biconcave disks, **anucleate**, no organelles

RBC function: respiratory gas transport, hemoglobin binds with O₂

Hemoglobin - protein in RBC that carries oxygen

Globin: **Heme:**

- 4 polypeptide chains • pigment bonded to globin
- 2 alpha + 2 beta chains chain - gives blood red color

Oxyhemoglobin - ruby red - O₂ loading in lungs

deoxyhemoglobin - dark red - O₂ unloading in tissues

Carbaminohemoglobin - 20% CO₂ in blood binds to Hb

- heme iron (Fe) binds to 1 O₂
- RBC - 250mil Hb molecules
- Each Hb can produce 4 O₂

Hematopoiesis

- formation of blood cells in red bone marrow

hemocytoblasts - hematopoietic Stem Cells

hematocrit - % of blood volume that is in RBCs

49% ± 5% (males), 42% ± 5% (females)

Anatomy And Physiology Chapter 10 Blood Notes

G Psacharopoulos



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