

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

60% albumin

36% Globulins

4% fibrinogen

- nutrients
- hormones
- wastes
- gases
- proteins

Sticky, opaque, metallic taste pH = 7.35 - 7.45

high O_2 - scarlet, low O_2 - dark red V = 5-6L men, 4-5L women

Blood function:

1. **Distribution** - delivering O_2 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 buffer; maintaining adequate fluid volume in circulatory system
3. **protection** - preventing blood loss - plasma proteins and platelets $\rightarrow$ clot formation; preventing infection

RBCs



Spectrin - provides flexibility to change shape

no nucleus

biconcave disks, **anucleate**, no organelles

RBC function: respiratory gas transport, hemoglobin binds with O_2

• 97% hemoglobin

form fib function

Hemoglobin - protein in RBC that carries oxygen

Hb

Globin: **Heme**:

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

Oxyhemoglobin - ruby red - O_2 loading in lungs

deoxyhemoglobin - dark red - O_2 unloading in tissues

Carbamino hemoglobin - 20% CO_2 in blood binds to Hb

- heme iron (Fe) binds to 1 O_2
- RBC - 250mil Hb molecules
- Each Hb can produce 4 O_2

Hematopoiesis

- formation of blood cells in red bone marrow

hemocytoblasts - hematopoietic Stem Cells

hematocrit - % of blood volume that is in RBCs

47% $\pm$ 5% (males), 42% $\pm$ 5% (females)

Anatomy And Physiology Chapter Blood Notes

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Anatomy And Physiology Chapter Blood Notes:

Human Form, Human Function: Essentials of Anatomy & Physiology, Enhanced Edition Thomas H McConnell, Kerry L. Hull, 2020-03-27 Human Form Human Function is the first essentials level text that seamlessly weaves together form anatomy with function physiology an approach that caters to how instructors teach and students learn Authors Tom McConnell and Kerry Hull incorporate real life case studies as the vehicle for learning how form and function are linked Through careful organization thoughtful presentation and a conversational narrative the authors have maintained a sharp focus on communication between body organs and body systems between artwork and student learning between content and student comprehension Each feature reinforces critical thinking and connects anatomy and physiology to the world of health care practice This original text offers an exceptional student learning experience an accessible and casual narrative style dynamic artwork and a complete suite of ancillaries help build a solid foundation and spark students enthusiasm for learning the human body

The Essentials of Anatomy, Physiology, and Hygiene Roger Sherman Tracy, 1884

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