

Chapter 17 Blood

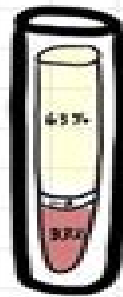
Blood Content:

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 10 Blood Notes

Tobias Bleicker



Anatomy And Physiology Chapter 10 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 Anatomy and Physiology Stanley E. Gunstream, 1992 Mastering Healthcare Terminology - E-Book Betsy J. Shiland, 2018-01-29 Mastering Healthcare Terminology E Book Anatomy and Physiology Catherine Parker Anthony, Gary A. Thibodeau, 1979 The Anatomy and Physiology Learning System Edith J. Applegate, 2000 This popular text takes a dynamic and accessible approach to a complex and often intimidating subject Colorful and eye catching it cuts straight to the basics readers need to know emphasizing medical terminology and clinical applications in an easy to grasp fashion 595 illustrations 280 in full color make anatomy and physiology come alive **Mosby's Guide to Physical Examination** Henry M. Seidel, 1991 The Human Body Henry Newell Martin, 1890 An Outline for Teaching Anatomy and Physiology Jesse Feiring Williams, 1929 **Anatomy & Physiology** Gary A. Thibodeau, Kevin T. Patton, 2003 CD ROM builds on the textbook content Includes exercises quizzes movie clips etc **Principles of Basic Trauma Nursing** Western Schools, 2005 Principles of Anatomy and Physiology Gerard J. Tortora, Nicholas Peter Anagnostakos, 1987 The art and illustration program make explanations and concepts easier to comprehend Clinical Application sections demonstrate the clinical or professional significance of the discussion Coverage of scientific research and breakthroughs in understanding the human body keep the book on the cutting edge **A Handbook of Anatomy and Physiology for Student X-ray Technicians** Marshall Mallett, 1952 **Introduction to Human Physiology** William Douwes Zoethout, 1948 Journal of Education , 1884 Human Anatomy & Physiology Eldra Pearl Solomon, P. William Davis, 1983 **Cardiopulmonary Anatomy and Physiology** Les R. Matthews, 1996 **Hemodynamic Monitoring** Gloria Oblouk Darovic, 2002 Through three editions this comprehensive reference on hemodynamic monitoring for critical care nurses whether novice or expert has been respected for being practical and clinically reliable The text concentrates on the educational needs of the clinician for optimal care of the patient **Acta Physiologica** , 1973 **The Naturalists' Leisure Hour and Monthly Bulletin** , 1888 *The Medical Times and Gazette* , 1875

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