

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

R Pring



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 **Anatomy & Physiology (includes A&P Online course) E-Book** Kevin T. Patton, 2018-01-31 Anatomy Physiology includes A P Online course E Book *Today's Medical Assistant - E-Book* Kathy Bonewit-West, Sue Hunt, 2019-12-11 Bringing together comprehensive easy to read coverage of medical assisting competencies and a solid foundation of anatomy and physiology Today s Medical Assistant Clinical Administrative Procedures 4th Edition provides everything you need to successfully begin a career as a medical assistant This hands on guide uses easy to follow language and detailed visuals to walk you through all the medical knowledge procedures and skills you need for success in today s fast paced medical office Cutting edge content is organized around medical assisting standards and competencies supplemented throughout with a wide assortment of engaging learning tools and activities that help you to fully understand and demonstrate those competencies The 4th Edition features enhanced coverage of healthcare law certification electronic health records motivational interviewing office management and more as well as additional procedures to address behavior based competencies and expanded sample certification exams online For tomorrow s professional landscape look no further than Today s Medical Assistant Consistent and meticulous coverage throughout all elements of the text and its learning package provide reliable content and unparalleled accuracy on the responsibilities of the modern medical assistant More than 120 detailed step by step procedures with illustrations are accompanied by skills videos online UNIQUE Effective learning aids include procedure charting activities What Would You Do What Would You Not Do scenarios patient education and practice applications and much more Wide range of engaging learning activities on the companion website provide fun interactive practice NEW New content on healthcare trends and laws certification for Medical Assistants electronic health records motivational interviewing office management and more ensures that you have the latest information needed to obtain employment and long term success on the job NEW New procedures address the affective behavior based MAERB competencies to provide example

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