

Chapter 17 Blood

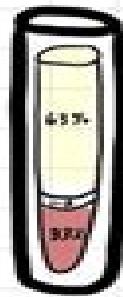
Blood Content:

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

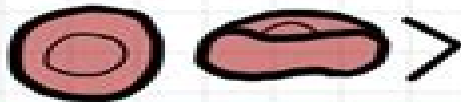
Sticky, opaque, metallic taste pH = 7.35 - 7.45

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 Ch Blood

William Harvey



Anatomy Ch Blood:

Respiratory Care Anatomy and Physiology - E-Book Will Beachey, 2017-03-22 Prepare to think critically take a more clinical perspective and connect theory with practice Written specifically for respiratory care students in an easy to understand format Respiratory Care Anatomy and Physiology Foundations for Clinical Practice 4th Edition details applied respiratory and cardiovascular physiology and how anatomy relates to physiological functions Content spans the areas of detailed anatomy and physiology of the pulmonary cardiovascular and renal systems and covers the physiological principles underlying common therapeutic diagnostic and monitoring therapies and procedures Thoroughly updated to reflect changes in the NBRC exam this comprehensive clinically relevant text features open ended concept questions that help you learn how to think like the expert you aim to become Chapter outlines chapter objectives key terms and a bulleted points to remember feature highlight important concepts and make content more accessible Open ended concept questions require reasoned responses based on thorough comprehension of the text fostering critical thinking and discussion Clinical Focus boxes throughout the text place key subject matter in a clinical context to help you connect theory with practice by understanding how physiology guides clinical decision making in the real world Appendixes contain helpful tables formulas and definitions of terms and symbols Evolve resources include a 600 question test bank in NBRC style PowerPoint presentations with ARS questions an image collection and an answer key to concept questions UPDATED Thoroughly updated content reflects changes in the NBRC exam NEW and UPDATED New images enhance understanding of key concepts **McDonald's**

Blood Flow in Arteries Wilmer W. Nichols, Michael O'Rourke, Elazer R. Edelman, Charalambos Vlachopoulos, 2022-09-16 For over sixty years McDonald's Blood Flow in Arteries has remained the definitive reference work in the field of arterial hemodynamics including arterial structure and function with special emphasis on pulsatile flow and pressure Prestigious authoritative and comprehensive this seventh edition has been totally updated and revised with many new chapters This edition continues to provide the theoretical basis required for a thorough understanding of arterial blood flow in both normal and pathological conditions while keeping clinical considerations and readability paramount throughout Key Features The definitive reference work on arterial hemodynamics Fully updated and revised to cover all recent advancements in the field

Anatomical Studies on the Motion of the Heart and Blood William Harvey, 1931 **Introduction; the blood; circulation; respiration** Austin Flint, 1875 **Respiratory Care Anatomy and Physiology** Will Beachey, PhD, RRT, FAARC, 2012-10-22 Perfect for both practicing therapists and students in respiratory therapy and associated professions this well organized text offers the most clinically relevant and up to date information on respiratory applied anatomy and physiology Content spans the areas of basic anatomy and physiology of the pulmonary cardiovascular and renal systems and details the physiological principles underlying common therapeutic diagnostic and monitoring therapies and procedures Using a clear and easy to understand format this text helps you take a more clinical perspective and learn to think more

critically about the subject matter Open ended concept questions require reasoned responses based on thorough comprehension of the text fostering critical thinking and discussion Clinical Focus boxes throughout the text place key subject matter in a clinical context to connect theory with practice Chapter outlines chapter objectives key terms and a bulleted chapter summary highlight important concepts and make content more accessible Appendixes contain helpful tables and definitions of terms and symbols NEW Chapter on the physiological basis for treating sleep disordered breathing clarifies the physiological mechanisms of sleep disordered breathing and the various techniques required to treat this type of disorder NEW Reorganization of content places the section on the renal system before the section on integrated responses in exercise and aging to create a more logical flow of content NEW More Clinical Focus scenarios and concept questions provide additional opportunities to build upon content previously learned and to apply new information in the text

Blood Supply and Anatomy of the Upper Abdominal Organs Nicholas Aloysius Michels,1955 *A Text Book of Human Physiology Designed for ... Practitioners and Students of Medicine. ... Illustrated, Etc* Austin Flint,1876 **A Text-book of Human Physiology** Austin Flint,1886 **Bovine Anatomy** Klaus-Dieter Budras,2003 This unique atlas on Bovine Anatomy combines the advantages of both topographical and systems based methods of anatomy Each page of text faces a full page of realistic illustrations in colour The topographical treatment of parts of the body is accompanied by illustrations of the bones joints muscles organs blood vessels nerves and lymph nodes of each part Information tables on the muscles lymph nodes and peripheral nerves provide brief data referenced to the text The illustrations were drawn from dissections especially prepared for that purpose and instructions are given for the dissections Particular attention is paid to the histology growth and function of the bovine hoof based on extensive research In addition to the gross anatomy of the udder its development histology and function are described and illustrated One chapter is devoted to the pathology pathogenesis and molecular biology of bovine spongiform encephalopathy scrapie of sheep and goats and chronic wasting disease of American deer and elk Published by Schluetersche Germany and distributed by Manson Publishing

The Nature of Disease Thomas H. McConnell,2007 Geared to allied health students and written in an engaging narrative style this pathology text is an easy to read primer on the etiology and pathogenesis of human disease This unique book provides a basic understanding of pathology without microscopic pathology and molecular biology details that health professions students do not need Each chapter reviews normal anatomy and physiology explains the development of common diseases lists the major determinants of disease presents clinical case studies and includes end of chapter problem solving questions A bound in CD ROM includes animations and a 250 question quiz Faculty resources include a 2 000 question test bank and PowerPoint slides with lecture notes

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brain specimens highlight anatomical clinical correlations Internal spinal cord and brainstem morphology are presented in a new format that shows images in both anatomical and clinical orientations correlating this anatomy exactly with how the brain and its functional systems are viewed in the clinical setting A new chapter contains over 235 USMLE style questions with explained answers This edition is packaged with Interactive Neuroanatomy Version 2 an interactive CD ROM containing all the book s images

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web this lab will help you to better understand the relationship between current voltage and resistance which we refer to as ohm s law it will also help you to understand how current voltage and resistance change when placed in series and parallel circuits

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web ohm s law describes mathematically how voltage v current i and resistance r in a circuit are related according to this law the current in a circuit is directly proportional to the applied voltage and inversely proportional to the circuit resistance ohm s law is among the most fundamental relationships in electrical engineering

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