

Chapter 17 Blood

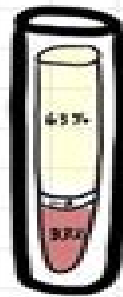
Blood Content:

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

Tobias Bleicker

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Anatomy Ch Blood:

Anatomy & Physiology All-in-One For Dummies (+ Chapter Quizzes Online) Erin O'Dya, 2023-03-28 The knee bone is connected to the what was it again From complicated Latin names to what can seem like a million and one things to memorize no one is saying anatomy and physiology is easy But with a little help from your friends at Dummies it doesn't have to be impossible Anatomy Physiology All in One For Dummies is your go-to guide for developing a deep understanding of the parts of the human body and how it works You'll learn the body's structures and discover how they function with expert help from the book's easy-to-use teaching features You can even go online to access interactive chapter quizzes to help you absorb the material With this book you'll get a grip on key concepts and scientific terminology used to describe the human body Discover fun physiology facts you can apply to everyday life both inside and outside the classroom Learn how the body's different systems interact with one another So if you're looking to ace that next test improve your overall grade reduce test anxiety or just increase your confidence in the subject grab a copy of Anatomy Physiology All in One For Dummies It's your one-stop comprehensive resource for all things A P

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Anatomy and Physiology Mr. Rohit Manglik, 2024-03-08 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well-structured content tailored to meet the needs of students across various streams and levels

Human Anatomy Alina Maria Sisu, 2017-11-21 Anatomia clavus et clavis medicinae est Anatomy is a fundamental science that studies the structure of the human body from ancient times Over time the discipline constantly expands with recent progress that has been produced in researching the human body So new methods of researching were incorporated in the anatomy development plastic materials injections plastination computed techniques of sectional bodies and embryology Anatomic sections like macroscopic mesoscopic microscopic and public anatomies radiologic anatomy computed anatomy radiologic anatomies and clinical anatomy contribute to realize a very complex discipline that represents the base of learning medicine

The Purple Island and Anatomy in Early Seventeenth-century Literature, Philosophy, and Theology Peter Mitchell, 2007 Sets out to reconstruct and analyze the rationality of Phineas Fletcher's use of figurality in *The Purple Island* 1633 a poetic allegory of human anatomy This book demonstrates that the analogies and metaphors of literary works share coherence and consistency with anatomy textbooks

Anthony's Textbook of Anatomy & Physiology - E-Book Kevin T. Patton, Gary A. Thibodeau, 2018-03-05 Just because A P is

complicated doesn't mean learning it has to be. Anthony's Textbook of Anatomy Physiology 21st Edition uses reader-friendly writing, visually engaging content, and a wide range of teaching and learning support to ensure classroom success. Focusing on the unifying themes of structure and function and homeostasis, author Kevin Patton uses a very conversational and easy-to-follow narrative to guide you through difficult A/P material. The new edition of this two-semester text has been updated to ensure you have a better understanding of how the entire body works together. In addition, you can connect with the textbook through a number of free electronic resources, including an electronic coloring book, 3D animations, and more. Conversational writing style at a 11.7 reading level, the lowest available for 2-semester A/P books, makes text engaging and easy to understand. Updated Genetics chapter includes important advancements in that field. Updated content on osmosis revised to make it more simple and accurate. More than 1,400 full-color photographs and drawings illustrate the most current scientific knowledge and bring difficult concepts to life. Includes a unique color key to show color scheme that is used consistently throughout the book: for example, bones are off-white, enzymes are lime green, nucleus is purple. UNIQUE Consistent unifying themes such as the Big Picture and Cycle of Life sections in each chapter help you comprehend the interrelation of body systems and how the structure and function of these change in relation to age and development. Numerous feature boxes, including Language of Science and Language of Medicine, Mechanisms of Disease, Health Matters, Diagnostic Study, FYI Sport and Fitness, and Career Choices, provide interesting and important sidebars to the main content. Quick Check Questions reinforce learning by prompting you to review what you've just read. Chapter outlines, chapter objectives, and study tips begin each chapter. NEW Integrative Unit Closers tie together content with integrative critical thinking questions. NEW Additional and updated Connect It boxes, renamed from A/P Connect, provide relevant bonus information for you to explore. NEW All new animations in the text and on Evolve companion site help you understand the reasoning and knowledge behind each answer and assist with recalling correct answers.

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 list of points to remember feature highlights 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 **Anatomical Studies on the Motion of the Heart and Blood** William Harvey,1931 **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 **Handbook of Cardiac Anatomy, Physiology, and Devices** Paul A. Iaizzo,2010-03-11 A revolution began in

my professional career and education in 1997 In that year I visited the University of Minnesota to discuss collaborative opportunities in cardiac anatomy physiology and medical device testing The meeting was with a faculty member of the Department of Anesthesiology Professor Paul Iaizzo I didn t know what to expect but as always I remained open minded and optimistic Little did I know that my life would never be the same During the mid to late 1990s Paul Iaizzo and his team were performing anesthesia research on isolated guinea pig hearts We found the work appealing but it was unclear how this research might apply to our interest in tools to aid in the design of implantable devices for the cardiovascular system As discussions progressed we noted that we would be far more interested in reanimation of large mammalian hearts in particular human hearts Paul was confident this could be accomplished on large hearts but thought that it would be unlikely that we would ever have access to human hearts for this application We shook hands and the collaboration was born in 1997 In the same year Paul and the research team at the University of Minnesota including Bill Gallagher and Charles Soule reanimated several swine hearts Unlike the previous work on guinea pig hearts which were reanimated in Langendorff mode the intention of this research was to produce a fully functional working heart model for device testing and cardiac research

Sidman's Neuroanatomy Douglas J. Gould,Jennifer K. Brueckner,2007-11-01 Sidman s Neuroanatomy A Programmed Learning Tool Second Edition is an innovative combined neuroanatomy text and review that covers the structure of the entire nervous system Its unique programmed learning approach allows students to easily retain information and learn at their own

pace by slowly building on previously learned concepts throughout each chapter The programmed learning approach introduces new information and reviews previously learned information by presenting it in new contexts calling attention to important details and illustrating steps in a reasoning process This learning method adds to and reinforces the student s understanding and retention of neuroanatomical knowledge This edition features updated illustrations a systems based organization and new concepts on the cerebellum extrapyramidal pathways special sensory pathways diencephalon ventricular system and vascular anatomy Terminology has been updated to conform to Terminologia Anatomica Accompanying the book is a multimedia component containing an interactive question bank with fill in the blank and figure labeling exercises pop up images and hot spot identification questions as well as brand new neuroanatomical animations

Ross and Wilson Applied Anatomy and Applied Physiology in Health and Illness_1SAE - E-Book W.M.S.

Johnson,Priscilla Johnson,S.J. Nalini,2022-11-01 Ross and Wilson Applied Anatomy and Applied Physiology in Health and Illness_1SAE E Book **The Physiology of Man** Austin Flint,1870 **Guide to Ruminant Anatomy** Mahmoud

Mansour,Ray Wilhite,Joe Rowe,Saly Hafiz,2023-03-01 Guide to Ruminant Anatomy Familiarize yourself with the anatomy of ruminants and food animals with this up to date guide Guide to Ruminant Anatomy provides a richly illustrated guide tailored to the practical needs of veterinary clinicians Divided for ease of use into sections representing different parts of the ruminant body this in depth introduction uses real dissection images to familiarize readers in detail with the internal and external anatomy of caprine ovine and bovine animals It provides an outstanding demonstration of the relevance of anatomy in clinical settings Guide to Ruminant Anatomy readers will also find Practical clinical applications discussed by board certified clinicians in each chapter Line drawings corresponding to dissection images of embalmed specimens Learning objectives in each section tying key concepts to clinician development A companion website featuring laboratory videos demonstrating relevant anatomy Guide to Ruminant Anatomy is an essential guide for veterinary students studying anatomy of food animals as well as veterinary practitioners of all kinds looking for an easy to use reference on ruminant anatomy

Anatomical Atlas of CT Pathology: A Comprehensive Guide for Imaging Technologists Pasquale De

Marco,2025-07-18 Delve into the realm of CT pathology with this comprehensive atlas carefully crafted for imaging technologists Discover a wealth of knowledge and visual aids to enhance your understanding and expertise in this specialized field Through a series of captivating images this atlas unveils the intricate details of various disease processes as seen on CT scans Each image is meticulously paired with informative charts that provide essential information including pathology overviews patient history and symptoms suggested protocols for optimal imaging contrast materials for enhanced visualization and precise anatomical locations of the pathologies With its user friendly approach this atlas caters to imaging technologists of all levels from students seeking a solid foundation to experienced professionals seeking to refine their skills Its comprehensive coverage encompasses a wide range of pathologies affecting diverse body systems including the skeletal

system head and neck chest abdomen and pelvis musculoskeletal system cardiovascular system respiratory system gastrointestinal system and genitourinary system Written in a clear and engaging style this atlas makes complex concepts accessible and easy to grasp It serves as an invaluable reference guide for accurate identification and interpretation of CT images empowering imaging technologists to make informed decisions and contribute significantly to patient care Furthermore this atlas acknowledges the pivotal role of imaging technologists in ensuring accurate diagnosis and effective treatment It emphasizes the importance of collaboration between imaging technologists and other healthcare professionals recognizing their collective expertise in achieving optimal patient outcomes By providing a comprehensive understanding of CT pathology this atlas empowers imaging technologists to communicate effectively collaborate seamlessly and contribute significantly to the overall quality of patient care If you like this book write a review

A Text Book of Human Physiology Designed for ... Practitioners and Students of Medicine. ... Illustrated, Etc Austin Flint,1876 A Practical Treatise on Disease in Children Eustace Smith,1884 **Population Sciences** ,1974 *The Physiology of man v.1*, 1874 Austin Flint,1874 **Anatomy & Physiology (includes A&P Online course) E-Book** Kevin T. Patton,2018-01-31 Anatomy Physiology includes A P Online course E Book

Unveiling the Energy of Verbal Artistry: An Emotional Sojourn through **Anatomy Ch Blood**

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