

Chapter 17 Blood

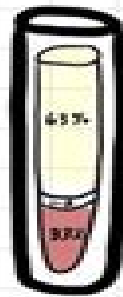
Blood Content:

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

Carbaminothemsoglobin - 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

49% \pm 5% (males), 42% \pm 5% (females)

Anatomy And Physiology Chapter Blood

Anika Niambi Al-Shura



Anatomy And Physiology Chapter Blood:

Phlebotomy Exam Review Ruth E. McCall, 2023-08-15 Phlebotomy Exam Review Eighth Edition provides a comprehensive review of current phlebotomy theory and offers an ideal way to study for phlebotomy licensing or national certification exams. It also makes for an excellent study tool for students taking formal phlebotomy training programs. By answering the questions in this review, students can test their knowledge and application of current phlebotomy theory. Theory questions address recent federal safety standards, Clinical and Laboratory Standards Institute (CLSI) guidelines, and the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS) phlebotomist competencies when applicable. Questions are standard multiple choice like those used on national exams with choices that often test your critical thinking abilities. 2024 380 pages Jones & Bartlett Learning's Medical Assisting Exam Review for National Certification Exams

Helen Houser, Janet Sesser, 2022-04-26 Proceeded by Lippincott Williams Wilkins medical assisting exam review for CMA RMA CMAS certification Helen J Houser Janet R Sesser Fourth edition 2016 *Vascular Anesthesia Procedures* Richard Urman, Alan Kaye, 2021 This important manuscript reviews basic vascular anatomy and physiology. The vascular system is part of the cardiovascular system which maintains blood supply to all organs and tissues to upkeep the human metabolic activities. Vascular system has three components: artery, vein, and capillaries where oxygen, nutrients, and metabolites exchange. Vascular wall biology has been a very hot topic for the last decades since it is involved in numerous physiological and pathological processes yet many aspects remain unknown. There are three layers in the vascular wall: Tunica intima, Tunica media, and Tunica adventitia. Adventitia has mainly collagenous and elastic fibers and its physiological function was mostly unknown till recently it is believed to be involved in the pathogenesis of atherosclerosis. The vascular tone can be altered by neurohumoral and other factors. The brain and the heart and other vital organs have the capability to regulate their blood flow via a phenomenon called autoregulation which maintains relatively constant blood flow to vital organs over a wide range of perfusion pressure. c Provided by publisher Biology and Mechanics of Blood Flows Marc Thiriet, 2007-12-20 This authoritative work presents the basic knowledge and state of the art techniques necessary to carry out investigations of the cardiovascular system using modeling and simulation. The book provides a survey of relevant cell components and processes with detailed coverage of the electrical and mechanical behaviors of vascular cells, tissues, and organs. Biological and mechanical glossaries are provided **Nancy Caroline's Emergency Care in the Streets Advantage Package (Canadian Edition)** American Academy of Orthopaedic Surgeons (AAOS), Paramedic Association of Canada, Nancy L. Caroline, Russell MacDonald, 2020-03-06 Navigate 2 Advantage Access unlocks a complete Audiobook, Study Center, homework, and Assessment Center, and a dashboard that reports actionable data. Experience Navigate 2 today at www.jblnavigate.com 2 In the early 1970s Dr. Nancy Caroline developed the first paramedic textbook and transformed paramedic education. Today the Paramedic Association of Canada is proud to continue this legacy delivering world class education to

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Advanced Hematology in Integrated

Cardiovascular Chinese Medicine Anika Niambi Al-Shura, 2019-10-20 Advanced Hematology in Integrative Cardiovascular Chinese Medicine volume three in the Integrative Cardiovascular Chinese Medicine series systematically observes and discusses laboratory tests which detect heart diseases and analyzes the results It includes coverage of red and white blood cell homeostasis and advanced anatomy and physiology of the vascular system including the biomedicine perspectives of blood and lymphatic system and TCM perspectives of essence qi blood and body fluid In addition the book examines the immune system from the perspective of Traditional Chinese Medicine including pestilential differentiation Case studies lab charts and laboratory differentials according to Chinese and Western medicine perspectives are also included Finally the book discusses the use of lab results for assisting and or confirming diagnoses of blood and cardiovascular disorders in both Traditional Chinese Medicine and Western medicine This important reference will aid cardiovascular researchers in the study of integrative Chinese and Western medicine with its clear structured base to guide clinical practice and encourage collaboration Compares medical theories in Chinese medicine and Western medicine on blood immune system and

cardiovascular diseases Provides laboratory cases tests and values concerning pathology of the blood and the cardiovascular system necessary for diagnosing and monitoring within integrative cardiovascular Chinese medicine Includes coverage of advanced level blood complement and immune systems from both Western and Chinese medicine perspectives **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 *A Textbook of Medical Entomology* Walter Scott Patton, Francis William Cragg, 1913

Primary Care, Second Edition Joanne K. Singleton, Robert V. DiGregorio, PharmD, BCACP, Carol Green-Hernandez, Stephen Paul Holzemer, PhD, RN, Eve S. Faber, MD, Lucille R. Ferrara, Jason T. Slyer, 2014-11-12 Print CourseSmart *Caring for Children and Families* Ian Peate, Lisa Whiting, 2006-08-04 This text will help students understand fundamental aspects of clinical practice in order to provide safe and effective care to children and their families in various situations When in clinical practice students may find themselves being supervised from a distance and as such this text will help the student when they find themselves in a variety of settings to assist their integration of theory and practice The reader will develop their paediatric caring skills with a sound knowledge base which will underpin the safe and effective delivery of care User friendly writing style Contributions from expert paediatric academic staff and skilled clinicians One of the few books that deal with clinical practice specifically related to and addressing the needs of children in a user friendly manner Pathophysiology - E-Book Jacquelyn L. Banasik, Lee-Ellen C. Copstead-Kirkhorn, 2012-12-21 A clear comprehensive introduction to disease Pathophysiology 5th Edition explores the etiology pathogenesis clinical manifestations and treatment of disorders Units are organized by body system and each begins with an illustrated review of anatomy and normal physiology A discussion then follows on the disease processes and abnormalities that may occur with a focus on the pathophysiologic concepts involved Written by leading educators Lee Ellen Copstead and Jacquelyn Banasik Pathophysiology simplifies a rigorous subject with practical learning resources and includes coverage of the latest scientific findings and relevant research 900 full color illustrations clarify complex pathophysiological concepts Easy to read style includes many tables boxes and figures to highlight and simplify content Key Questions at the beginning of each chapter highlight key objectives and help you develop and use critical thinking skills Key Points boxes focus on the most important information Geriatric Considerations boxes analyze the age related changes associated with a specific body system A chapter summary gives you a quick wrap up of the key content in each chapter NEW Pediatric Considerations boxes with accompanying flow

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Nano and Bio Heat Transfer and Fluid Flow Majid Ghassemi, Azadeh Shahidian, 2017-03-15 Nano and Bio Heat Transfer and Fluid Flow focuses on the use of nanoparticles for bio application and bio fluidics from an engineering perspective It introduces the mechanisms underlying thermal and fluid interaction of nanoparticles with biological systems This book will help readers translate theory into real

world applications such as drug delivery and lab on a chip The content covers how transport at the nano scale differs from the macro scale also discussing what complications can arise in a biologic system at the nano scale It is ideal for students and early career researchers engineers conducting experimental work on relevant applications or those who develop computer models to investigate design these systems Content coverage includes biofluid mechanics transport phenomena micro nano fluid flows and heat transfer Discusses nanoparticle applications in drug delivery Covers the engineering fundamentals of bio heat transfer and fluid flow Explains how to simulate analyze and evaluate the transportation of heat and mass problems in bio systems

A Treatise on Blood Pressure in Ocular Work Eugene Gilbert Wiseman,1916 *Manual of gynecology* David Berry Hart,1883

Microbiology Anthony Strelkauskas,Jennifer Strelkauskas,2010-01-01 Microbiology A Clinical Approach is a new and unique microbiology textbook for pre nursing and allied health students It is clinically relevant and uses the theme of infection as its foundation covering all standard topics taught in a pre nursing allied health microbiology course The book follows a novel sequence and includes innovative chapters on emerging infectious diseases antibiotic resistance and bioterrorism not seen in other textbooks Microbiology is student friendly its text figures and electronic resources have been carefully designed to help students understand difficult concepts and to keep them interested in the material The textbook is supported with a robust ancillary package for instructors which will easily allow them to incorporate the book s new approach into their lectures Students working towards careers in the healthcare professions will achieve success with Microbiology A Clinical Approach

Building a Medical Vocabulary Peggy C Leonard, Ba MT Med,2015-11-09 The language of medicine may be complex but learning it doesn t have to be Using short easy to understand segments followed immediately by programmed exercises Building a Medical Vocabulary With Spanish Translations 9th Edition starts with medical terms that you may already know and builds your knowledge by adding new combining forms prefixes and suffixes An Evolve companion website reinforces your understanding with interactive games animations audio pronunciations and more Organizing medical terms by body system this text provides the building blocks for effective communication in the health care environment Easy to understand conversational writing style makes reading and absorbing the material enjoyable Programmed Learning sections allow you to actively participate in learning and get instant feedback on your progress An Evolve companion website reinforces learning with audio pronunciations interactive games exercises animations flash cards and more Thorough explanation of terms enhances understanding by presenting vocabulary in the context of medical settings Moderate level of A P coverage provides the background that you need to understand body systems in the context of medical terminology Health Care Reports and case studies allow you to apply your knowledge to job like situations Spanish translations cover common Spanish terminology that you are likely to encounter in the clinical environment Be Careful with These caution boxes highlight important distinctions between terms that are similar in spelling and or pronunciation Comprehensive end of chapter reviews allow you to measure your learning against chapter objectives The Joint

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Retina David R. Hinton, Stephen J. Ryan, Andrew P. Schachat, Charles P. Wilkinson, 2005-09-21 Praised by JAMA as The most complete description of the development structure function pathophysiology and treatment of the retina and its diseases to be found anywhere this monumental three volume work puts all of today's scientific and clinical knowledge of the retina at readers fingertips The New Edition has been

comprehensively updated and reorganized to reflect all of the very latest scientific and genetic discoveries diagnostic imaging methods drug therapies treatment recommendations and surgical techniques The result is an indispensable reference and diagnostic tool for generalists and specialists alike Delivers the editorial expertise of four highly respected authorities as well as contributions from internationally recognized leaders in visual science ophthalmology and vitreoretinal studies Presents more than 3 400 superb illustrations 2 200 in full color that capture all forms of retinal disease from every perspective Offers the very latest information on the genetic basis of retinal disease diagnostic retinal imaging photodynamic therapy and age related macular degeneration Examines the most recent advances in diagnostic indocyanine green angiography optical coherence tomography OCT and quantitative fluorescein angiography macular translocation with 360 peripheral retinectomy surgery for diffuse macular edema due to multiple causes including proliferative vitreoretinopathy artificial vision and much more Features a completely restructured section on age related macular degeneration that includes epidemiology and risk factors prophylaxis and prevention knowledge gained from large clinical trials like AREDS proven and experimental treatments for AMD and pharmacotherapy Incorporates a multitude of new full color images 2200 in all

Clinical Anesthesia Paul G. Barash, 2009 The premier single volume reference in the field of anesthesia Clinical Anesthesia is now in its Sixth Edition with thoroughly updated coverage a new full color design and a revamped art program featuring 880 full color illustrations More than 80 leading experts cover every aspect of contemporary perioperative medicine in one comprehensive clinically focused clear concise and accessible volume Two new editors Michael Cahalan MD and M Christine Stock MD join Drs Barash Cullen and Stoelting for this edition A companion Website will offer the fully searchable text plus access to enhanced podcasts that can be viewed on your desktop or downloaded to most Apple and BlackBerry devices

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