

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

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

Anatomy And Physiology Chapter Blood Notes

Kaplan Medical



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

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 driven learning tools NEW Updated art program focuses on the workings of a modern medical office and includes updated illustrations and photographs

of office procedures and medical records NEW Expanded and updated sample certification exams provide realistic practice to help you prepare to pass the test and launch your Medical Assisting career **Anatomy & Physiology (includes A&P**

Online course) E-Book Kevin T. Patton,2018-01-31 Anatomy Physiology includes A P Online course E Book **The Human Body. A Beginner's Text-book of Anatomy, Physiology and Hygiene ...** Henry Newell Martin,1890 **The**

Outlines of Anatomy, Physiology, and Hygiene Roger Sherman Tracy,1889 **Anatomy, Physiology, and Pathology**

Ruth Hull,2023-09-29 Author and therapist Ruth Hull provides a thorough understanding of anatomy physiology and pathology with clear accessible language and helpful learning tools The book is designed for easy comprehension with more than 300 clearly labelled colour images as well as flow charts diagrams and tables to help visualize complex ideas

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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 **Today's Medical Assistant** Kathy Bonewit-West,

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Medical Terminology, Enhanced Edition Judi L. Nath, 2020-05-22 Medical Terminology Enhanced Second Edition uses a proven work text approach that helps students master the information they need to communicate successfully in the health care world *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

Survival Guide for Anatomy & Physiology Kevin T. Patton, 2013-10-15 Don t be overwhelmed by the perils and pitfalls of learning A P Survival Guide for Anatomy Physiology 2nd Edition provides a quick and easy overview of tips strategies and key A P content to make studying more productive more fun and less time consuming A perfect on the go reference this handy guide is packed with colorful cartoons A P visuals illustrated tables and keen insights to help you prepare for even the most dangerous labs and exams Joining this excellent adventure are two new survival skills chapters plus strategies for using digital resources effectively Written by renowned author and educator Kevin Patton this book makes it easier to survive and conquer A P Plan a Learning Strategy section helps you study more effectively by showing how to tailor your learning activities to suit your learning style Part 2 Maps Charts and Shortcuts breaks the subject of A P into six sections so you can quickly find the information you need in an easy to read and understand format Mnemonic devices and memorable analogies help you remember A P concepts with ease Specific test taking strategies help you prepare for and pass exams Instructions on how to read your A P textbook lead to greater comprehension Dozens of

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Today's Medical Assistant Kathy Bonewit-West, Sue A. Hunt, Edith Applegate, 2012-10-04 Bringing together the clinical know how of Kathy Bonewit West the administrative expertise of Sue Hunt and the anatomy and physiology knowledge of Edith Applegate this unique hands on text guides you through the medical knowledge and skills you need to succeed in today s fast paced medical office The latest standards and competencies for the medical assistant have been incorporated into this new edition along with expanded coverage on important topics such as nutrition the electronic medical record ICD 10 emergency preparedness and disaster planning time management and computerized prescription refills Consistent meticulous coverage throughout the main text IRM SG DVDs Evolve and more provide reliable content and unparalleled accuracy Over 90 procedural videos on DVD and online provide a visual representation of important procedures Expanded Student Evolve site contains all animations games such as Quiz Show and Road to Recovery drag and drop exercises Apply your Knowledge exercises Prepare for Certification exercises matching exercises and other helpful activities such as blood pressure readings determining height and weight and drawing up medication What Would You Do What Would You Not Do boxes and responses offer applications of real life case studies Clear and concise Anatomy and Physiology coverage covers the basics of A P and eliminates the need for a separate A P text Content updates reflect the latest competencies for medical assistants and ensure you have the most current information on the newest trends and updates in the medical assisting world 8th grade reading level makes material approachable and easy to understand New chapter on Emergency Preparedness

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Anatomy, Physiology, and Pathology, Third Edition Ruth Hull,2023-12-19 A full color easy to understand introduction to anatomy physiology and pathology that s designed to provide a comprehensive understanding of the human body without overwhelming readers Anatomy Physiology and Pathology is the ideal introduction on the topic for students of complementary and physical therapies Designed for ease of learning both as an independent study resource and in the classroom this textbook is suitable for anyone requiring detailed knowledge of these subjects and has been adopted by colleges worldwide Author and therapist Ruth Hull provides a thorough understanding of anatomy physiology and pathology with clear accessible language and helpful learning tools It s designed for easy comprehension with more than 300 clearly labeled color images flow charts diagrams and tables to help visualize complex ideas study tips practice questions in each chapter and more Chapters outline the following systems Skin hair and nails Skeletal muscular and nervous systems Endocrine and respiratory systems Cardiovascular lymphatic and immune systems Digestive system Urinary system Reproductive system This book also serves as an effective refresher for current healthcare and bodywork professionals

Sonography Reva Arnez Curry,2015-10-30 Without a thorough knowledge of the appearance of normal anatomy you may have a tough time recognizing abnormalities in ultrasound images Get a firm grounding in normal anatomy and physiology from an ultrasound perspective with Sonography Introduction to Normal Structure and Function 4th Edition The new edition of this highly visual introductory text presents a wealth of ultrasound images accompanied by labeled drawings with detailed legends to increase your comfort with normal anatomy as it appears during

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An Atlas of Clinical Nuclear Medicine, Second Edition Ignac Fogelman, Michael N. Maisy, Susan E. M. Clarke, 1994-01-01 This atlas the first edition of which won the 1989 Glaxo Prize for Medical Writing has now been brought up to date to cover new techniques in the field Every major body system is featured along with coverage of SPECT for bone imaging new ventilation images for lung imaging cerebral perfusion imaging for the brain the use of Tc MAG3 in the renal system tomographic imaging of the heart and the use of monoclonal antibodies in the diagnosis and treatment of tumours

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Table of Contents Anatomy And Physiology Chapter Blood Notes

1. Understanding the eBook Anatomy And Physiology Chapter Blood Notes
 - The Rise of Digital Reading Anatomy And Physiology Chapter Blood Notes
 - Advantages of eBooks Over Traditional Books
2. Identifying Anatomy And Physiology Chapter Blood Notes
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Anatomy And Physiology Chapter Blood Notes
 - User-Friendly Interface
4. Exploring eBook Recommendations from Anatomy And Physiology Chapter Blood Notes
 - Personalized Recommendations
 - Anatomy And Physiology Chapter Blood Notes User Reviews and Ratings
 - Anatomy And Physiology Chapter Blood Notes and Bestseller Lists
5. Accessing Anatomy And Physiology Chapter Blood Notes Free and Paid eBooks

- Anatomy And Physiology Chapter Blood Notes Public Domain eBooks
 - Anatomy And Physiology Chapter Blood Notes eBook Subscription Services
 - Anatomy And Physiology Chapter Blood Notes Budget-Friendly Options
6. Navigating Anatomy And Physiology Chapter Blood Notes eBook Formats
 - ePub, PDF, MOBI, and More
 - Anatomy And Physiology Chapter Blood Notes Compatibility with Devices
 - Anatomy And Physiology Chapter Blood Notes Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Anatomy And Physiology Chapter Blood Notes
 - Highlighting and Note-Taking Anatomy And Physiology Chapter Blood Notes
 - Interactive Elements Anatomy And Physiology Chapter Blood Notes
 8. Staying Engaged with Anatomy And Physiology Chapter Blood Notes
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Anatomy And Physiology Chapter Blood Notes
 9. Balancing eBooks and Physical Books Anatomy And Physiology Chapter Blood Notes
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Anatomy And Physiology Chapter Blood Notes
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Anatomy And Physiology Chapter Blood Notes
 - Setting Reading Goals Anatomy And Physiology Chapter Blood Notes
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Anatomy And Physiology Chapter Blood Notes
 - Fact-Checking eBook Content of Anatomy And Physiology Chapter Blood Notes
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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