

Chapter 17 Blood

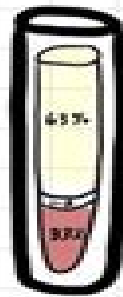
Blood Content:

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

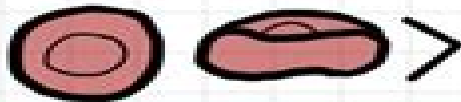
Sticky, opaque, metallic taste pH = 7.35 - 7.45

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

Paul A. Iaizzo



Anatomy And Physiology Chapter Blood Notes:

Anatomy, Physiology, and Pathology, Third Edition Ruth Hull, 2023-12-19 A full color easy to understand introduction to anatomy physiology and pathology that is 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 is 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

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Sanders, Lawrence M. Lewis, Kim McKenna, Gary Quick, 2012 This new edition provides complete coverage of prehospital care in a single comprehensive text It explains the paramedic s role the unique characteristics of prehospital care emergency care of acutely ill traumatically injured patients **Primary Care, Second Edition** Robert V. DiGregorio, Carol

Green-Hernandez, Stephen Paul Holzemer, Eve S. Faber, Lucille R. Ferrara, Jason T. Slyer, 2014-11-12 A complete state of the art bible of interprofessional primary care in one easy to use resource for Interprofessional Primary Care A truly interprofessional primary care textbook created by DNP APRNs MDs PharmDs PAs CNSs and CNMs Evidence based practice guidelines for Primary Care Includes community care team work and wellness coachings Strong guidance on differential diagnosis disease prevention risk reduction and lifestyle management Across the lifespan focus PLUS gender occupational and palliative care considerations Case Studies in PPT format available to faculty adopting the text This second edition of Primary Care delivers succinct current and integrated information on the assessment differential diagnosis treatment and management of individuals with commonly seen conditions in primary care settings Written and edited by APNs MDs PAs PharmDs and other health professionals it emphasizes guidance on differential diagnosis interprofessional primary care lifestyle management health promotion risk reduction and disease prevention The text features relationship centered care extensive coverage of age gender and occupational considerations complementary approaches nutritional assessment violence exposure and vulnerability assessment family community and cultural assessment palliative care and evidence based practice guidelines This important text presents current diagnostic criteria for each condition and includes relevant anatomy pathology and physiology epidemiology of the condition including cultural and economic factors risk identification and disease prevention strategies Also included are related laboratory studies the focused physical exam wellness coaching treatment options potential pitfalls and much more Additionally the book includes clinical pearls clinical warnings referrals and warning points and references The text is of value to all interprofessional primary care providers with a special focus on the needs of advanced practice nurses and MSN DNP students and as a course textbook for teaching

primary health care topics New to the Second Edition Increased focus on interprofessional primary care including community care team work and wellness coaching Strong guidance on differential diagnosis disease prevention risk reduction and lifestyle management Broad team of interprofessional authors and editors Special focus on elder geriatric primary care and palliative care Evidence based practice guidelines Stronger focus on age gender and occupational considerations Focus on age gender and occupational considerations Case Studies in PPT format available to faculty adopting the text Huszar's ECG and 12-Lead Interpretation Keith Wesley, 2016-08-24 Huzar's ECG and 12 Lead Interpretation 5th Edition by Keith Wesley M D helps you correlate ECG interpretation with clinical findings to identify and address selected heart rhythms The text is structured to match the order in which you learn specific skills ECG components are presented first followed by rhythm interpretation and clinical implications Take Home Points key definitions chapter review questions and practice strips help you understand and retain complex information NEW Discusses the difference between sinus arrest and SA block to help clarify concepts that learners often find confusing UPDATED STEMI and NSTEMI treatment guidelines updated to the latest standards Coverage of both basic and advanced concepts incorporates the latest research developments and provides material pertinent to both beginning and experienced prehospital care providers UPDATED and EXPANDED Key characteristics of each heart rhythm are summarized to allow you to learn or review each rhythm at a glance Patient care algorithms outline step by step management and treatment correlating ECG interpretation with history and exam findings Advanced treatment content such as complete coverage of thrombus formation treatment and management offers critical information for both hospital and prehospital settings UPDATED AND EXPANDED Key definitions define important terms right on the page near relevant content making it unnecessary to flip to the back of book glossary while reading or studying Key definitions chapter review questions and glossary updated to reflect new content Chapter review questions with answers in an appendix test your understanding of key topics Appendix with 200 practice strips questions and answer keys reinforces major concepts and ties information together UPDATED Glossary defines key terms supplementing the on page Key Definitions Expert authorship from Dr Keith Wesley who has been involved in EMS since 1989 and is a board certified emergency medicine physician Self assessment answer key allows you to check their own work for self evaluation Chapter outlines offer a quick overview of each chapter's content **Life and Health** Albert Franklin Blaisdell, 1902 **Technical Note**, 1980 **Harmony in Healing** James Garber, 2017-07-28 Medicine and astronomy are the oldest of all the sciences They appear at first glance to be the original odd couple Their union gave birth to a progeny that populated the Western world for more than two millennia From an historical perspective their marriage and mutual influence is undeniable Cosmology and cosmogony as natural philosophical aspects of astronomy have gone hand in hand with the science of medicine from time immemorial Indeed medicine and the pseudoscience of astrology were for centuries inseparable The ancients began the embryonic search for answers to questions that had puzzled humans for eons No systematic approach to

the nature of the universe was undertaken until the Sumerians the Babylonians and the Greeks began the quest for wisdom The Greeks beginning with Thales in the 6th century B C E sought a unifying principle to explain the world as a whole Because cosmology and medicine were among the few known sciences in ancient times it was natural that these two apparently disparate disciplines should be combined to provide the theoretical basis of medicine foundations that were to survive for nearly 2 400 years This scientific structure rested firmly on the ancient principles of cosmology astronomy and the concept of universal harmony This book tells the tale of these theoretical underpinnings and how they influenced humankind s efforts to maintain health and fight disease Ultimately the system was fundamentally flawed Nonetheless it lingered on for centuries beyond what common sense tells us it should have Few comprehensive analyses of the relationship between cosmology and medicine have been undertaken in the astronomical or medical literature For better or for worse cosmological principles have had profound effects on the theory and practice of medicine over the centuries It is time for historians astronomers physicians and philosophers to acquaint themselves with the impact early cosmology has

Structure and Function of the Human Body Frederic Martini, William C. Ober, Edwin F. Bartholomew, 1999 Structure and Function of the Human Body is written to provide a very basic understanding of anatomy and physiology for non science readers and provides them with a proven pedagogical format to master terminology and understand concepts Martini s easy to read writing style uses examples and anecdotes to help readers appreciate the relationship between structure and function The hallmark illustration program created by award winning illustrator William Ober M D helps readers visualize concepts and relationships

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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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 $2\text{KClO}_3 \rightarrow 2\text{KCl} + 3\text{O}_2$
 $2\text{NaCl} + \text{F}_2 \rightarrow 2\text{NaF} + \text{Cl}_2$
 $2\text{H}_2\text{O} + 5\text{C} \rightarrow 2\text{H}_2\text{O} + 5\text{CO}$
 $\text{Pb} + \text{OH}^- \rightarrow \text{HCl} + \text{H}_2\text{O} + \text{PbCl}_2$
 $2\text{Al} + 3\text{K}_2\text{SO}_4 \rightarrow 4\text{KBr} + \text{Al}_2\text{SO}_4 + 3\text{H}_2$
 $\text{CH}_4 + 2\text{O}_2 \rightarrow \text{CO}_2 + 2\text{H}_2\text{O}$
 $\text{C}_3\text{H}_8 + 5\text{O}_2 \rightarrow 3\text{CO}_2 + 4\text{H}_2\text{O}$

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 $1\text{O}_2 + 3\text{H}_2 \rightarrow 3\text{H}_2\text{O}$
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 $\text{N}_2 + 3\text{H}_2 \rightarrow 2\text{NH}_3$
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 $2\text{NaCl} + \text{F}_2 \rightarrow 2\text{NaF} + \text{Cl}_2$
 $2\text{H}_2\text{O} + 5\text{C} \rightarrow 2\text{H}_2\text{O} + 5\text{CO}$
 $\text{Pb} + \text{OH}^- \rightarrow \text{HCl} + \text{H}_2\text{O} + \text{PbCl}_2$
 $2\text{Al} + 3\text{K}_2\text{SO}_4 \rightarrow 4\text{KBr} + \text{Al}_2\text{SO}_4 + 3\text{H}_2$
 $\text{CH}_4 + 2\text{O}_2 \rightarrow \text{CO}_2 + 2\text{H}_2\text{O}$

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 $4\text{Fe} + 3\text{O}_2 \rightarrow 2\text{Fe}_2\text{O}_3$
 $2\text{Fe} + 3\text{O}_2 \rightarrow 2\text{Fe}_2\text{O}_3$
 $2\text{Fe} + 3\text{O}_2 \rightarrow 2\text{Fe}_2\text{O}_3$
 $2\text{Fe} + 3\text{O}_2 \rightarrow 2\text{Fe}_2\text{O}_3$
 $2\text{Fe} + 3\text{O}_2 \rightarrow 2\text{Fe}_2\text{O}_3$
 $2\text{Fe} + 3\text{O}_2 \rightarrow 2\text{Fe}_2\text{O}_3$
 $2\text{Fe} + 3\text{O}_2 \rightarrow 2\text{Fe}_2\text{O}_3$
 $2\text{Fe} + 3\text{O}_2 \rightarrow 2\text{Fe}_2\text{O}_3$
 $2\text{Fe} + 3\text{O}_2 \rightarrow 2\text{Fe}_2\text{O}_3$

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 $3\text{Fe} + 2\text{O}_3 \rightarrow 3\text{FeO}$
 $2\text{Fe} + 3\text{CO} \rightarrow 2\text{Fe}_3\text{O}_4$
 $3\text{H}_2 + 3\text{PO}_4 \rightarrow 3\text{H}_2\text{O} + 4\text{MgNH}_4\text{PO}_4$
 $2\text{P} + 7\text{NH}_3 \rightarrow 2\text{H}_2\text{O} + 4\text{Al} + 3\text{H}_2\text{SO}_4$
 $2\text{Al} + 3\text{H}_2\text{SO}_4 \rightarrow 2\text{Al}_2\text{O}_3 + 3\text{H}_2$
 $3\text{H}_2\text{O} + 3\text{H}_2\text{O} \rightarrow 3\text{H}_2\text{O} + 3\text{H}_2\text{O}$

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