

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

Carbaminohemoglobin - 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 Test

Ruth E. McCall



Anatomy And Physiology Chapter Blood Test:

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, student 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

Paramedics! Test Yourself in Pathophysiology Katherine Rogers, William Scott, Stuart Warner, Bob Willis, 2011-09-16 This charming little book offers students and professionals alike a chance to review their knowledge of pathophysiology in a simple and easy to use manner. It summarises all key areas and offers the reader a quick questions and answers book which is unique in the paramedic literature world. A fantastic book. Ruth Lambert. Qualified Paramedic UK. Paramedics Test yourself in Pathophysiology is the essential self test resource to help paramedics revise and excel in their pathophysiology modules and exams. With over 250 questions 60 glossary terms fully explained answers and explanations this book covers the most common presentations seen in the paramedic practice accessible through Multiple choice questions True or false questions Fill in the blank questions Labelling exercises. An extensive glossary explains all the key terms and disease names. Each main body system has its own chapter so you can get in depth practice for your exams. Body systems covered include Integumentary system Nervous system and special senses Cardiovascular system Digestive system Inflammation infection and immunity Musculoskeletal system Endocrine system Respiratory system Urinary system Reproductive systems

Nurses! Test Yourself In Pathophysiology Rogers, Katherine, Scott, William, 2011-03-01 This book is in the new Nurses Test Yourself series and will offer a revision and study aid for student nurses undertaking their Year 1 2 3 pathophysiology altered physiology acute and critical illness module and related exam assessments

Clinical Skills for Healthcare Assistants and Assistant Practitioners Angela Whelan, Elaine Hughes, 2016-05-31 *Clinical Skills for Healthcare Assistants and Assistant Practitioners* is an accessible easy to read guide outlining the fundamental and core skills integral to clinical practice. Fully updated in its second edition this book is divided into three sections the first looks at fundamental skills applicable to all staff such as accountability communication and record keeping. Section two explores core clinical skills such as respiratory care pulse blood glucose management and catheter care. Section three outlines complex clinical skills that require more in depth training such as medication and intravenous cannulation. An invaluable resource for healthcare assistants and assistant practitioners this book will also be of use to newly qualified practitioners and students in health and social care

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Essentials Of Medical Laboratory Practice Constance L Lieseke,Elizabeth A Zeibig,2012-01-31 Inside you ll find a wealth of information on important laboratory terminology and the procedures you ll need to perform to become an effective member of a physician s office team Coverage of the advanced procedures performed outside of the physician s office explains what happens to the samples you send out There s also information on CLIA and other government regulations and how they affect each procedure

Blood Science Andrew Blann,Nessar Ahmed,2022-10-24 Blood Science The second edition of the leading introduction to blood science with updated new illustrations and case studies Blood Science Principles and Pathology integrates hematology and blood transfusion clinical biochemistry and immunology to provide a thorough introduction to this rapidly expanding discipline Reflecting recent changes in education and training for healthcare scientists this comprehensive textbook covers the analytical techniques used in blood science the diagnosis and management of various blood disorders and more Fully revised the second edition presents new case studies and high quality images throughout illustrating the practical skills and knowledge required by today s undergraduate students and practitioners Detailed yet accessible chapters contain learning objectives and summaries links to further readings and resources and real world case studies with easy to follow interpretations Throughout the text the authors highlight how laboratory data and clinical details are used to investigate patients with actual or suspected diseases in real world scenarios Multi disciplinary view merging biochemical hematological immunological and genetical knowledge into a single discipline Blood science Discusses advances in molecular genetics

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ICD-10-CM/PCS Coding: Theory and Practice, 2023/2024 Edition - E-Book Elsevier Inc,2022-08-13 Learn facility based coding by actually working with codes ICD 10 CM PCS Coding Theory and Practice provides an in depth understanding of inpatient diagnosis and procedure coding to those who are just learning to code as well as to experienced professionals who need to solidify and expand their knowledge Featuring basic coding principles clear examples and challenging exercises this text helps explain why coding is necessary for reimbursement the basics of the health record and rules guidelines and functions of ICD 10 CM PCS coding 30 day access to TruCode Encoder Essentials gives students experience with using an encoder software plus access to additional encoder practice exercises on the Evolve website ICD 10 CM and ICD 10 PCS Official Guidelines for Coding and Reporting provide fast easy access to instructions on proper application of codes Coverage of both common and complex procedures prepares students for inpatient procedural coding using ICD 10 PCS Numerous and varied examples and exercises within each chapter break the material into manageable segments and help students gauge learning while reinforcing important concepts Illustrations and examples of key diseases help in understanding how commonly encountered conditions relate to ICD 10 CM coding Strong coverage of medical records provides a context for coding and familiarizes students with documents they will encounter on the job Illustrated full color design emphasizes important content such as anatomy and physiology and visually reinforces key concepts Evolve website offers students online access to additional practice exercises coding guidelines answer keys coding updates and more NEW Updated ICD 10 codes and coding guidelines revisions ensure students have the most up to date information available **ICD-10-CM/PCS**

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