

Chapter 17 Blood

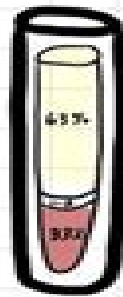
Blood Content:

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 Test

Marshall Houts, Leonard Marmor



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

Anatomy & Physiology (includes A&P Online course) E-Book Kevin T. Patton, 2018-01-31 *Anatomy*

Physiology includes A P Online course E Book *Nurses! Test yourself in Pathophysiology, 2e* Katherine Rogers, William Scott, 2023-12-14 This new edition offers a fun and flexible learning package that will build confidence when considering the complex pathophysiology field Dr Terry J Ferns EdD MA BSc Hons RN SFHEA Senior Lecturer Faculty of Education Health and Human Sciences University of Greenwich UK I have really enjoyed reading this book The chapter content and self assessment are easily manageable as the design and layout lends itself to learning and revision I have no hesitation in recommending this book to undergraduate nursing students Conor Hamilton Lecturer Education Nursing Queen s University Belfast Ireland Looking for a quick and effective way to revise and test your knowledge This handy book is the essential self test resource to help nurses revise and prepare for their pathophysiology exams Nurses Test Yourself in Pathophysiology 2nd Edition covers a broad range of conditions common to nursing practice including pneumonia diabetes asthma eczema and more The book includes a handy list of common abbreviations and prefixes as well as over 300 new questions and 60 glossary terms in total Each chapter contains Labelling exercises True or false questions Multiple choice questions Fill in the blank questions Match the Terms Brand new puzzle grids The book includes chapters on Integumentary system Musculoskeletal system Nervous system Endocrine system Cardiovascular system Respiratory system Digestive system Urinary system Reproductive system Written by leading experts with many years of experience teaching students on health and life sciences programmes this test book is sure to help you improve your results and tackle your exams with confidence Katherine M A Rogers is a Reader of Bioscience Education with the School of Nursing and Midwifery at Queen s University Belfast UK William N Scott is a Senior Lecturer and Researcher in Biomedicine at Atlantic Technological University Ireland **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 *Phlebotomy Exam Review, Enhanced Edition* Ruth E. McCall, 2020-06-19 Phlebotomy Exam Review Enhanced Seventh Edition thoroughly prepares students for any of the national certification exams in phlebotomy **Clinical Skills for Paramedic Practice ANZ 1e** Dianne Inglis, Jeff Kenneally, 2020-10-15 Written by Dianne Inglis and Jeffrey Kenneally the workbook includes more than 70 paramedic focused clinical skills that link underpinning theory and knowledge with expectations for contemporary clinical practice To ensure the skills are performed correctly and to standard the resource is further strengthened with a ready made assessment tool ideal for both self directed learning and instructor use The text is designed for practising skill development and preparation for assessment and clinical placement Clinical Skills for Paramedic Practice 1e includes two key components practical skill instruction and the Objective Structured Clinical Examination OSCE assessment checklist The skills sections contain clear step by step written and photographic instruction in basic to advanced clinical skills with rationales provided to enhance knowledge acquisition and clinical decision making The OSCE checklists allow students and instructors to easily track and assess progress in skill development Step by step skill instruction combined

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Clinical Skills for Healthcare Assistants Paula Ingram,Irene Lavery,2009-07-07 Clinical Skills for Healthcare Assistants is an accessible easy to read guide outlining the fundamental and core skills integral to clinical practice 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 for example respiratory care pulse blood glucose management catheter care and fluid balance Section three outlines complex clinical skills that require more in depth training and may be restricted to specialist areas of practice such as medication and intravenous cannulation Each chapter follows the same easy to use structure starting with the aims and objectives of the chapter followed by the explanation of why the skill is performed relevant anatomy and physiology related aspects and terminology how to perform the skill and common problems Aimed primarily at healthcare assistants this will also be a useful resource for newly qualified practitioners and students in health and social care

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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Blood Collection Marjorie Schaub Di Lorenzo,Susan King Strasinger,2016-03-14 Cross training Continuing education Refresher Whether you re cross training continuing your education or taking a refresher course the knowledge and skills you need to master the essentials of phlebotomy are here This user friendly text focuses on the proper techniques for collecting quality blood specimens with minimal patient discomfort It s perfect for intensive one or two day phlebotomy courses

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