

# 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

**Rogers, Katherine, Scott, William**



## **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, 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

*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*

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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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**Chemistry - E-Book** Donna Larson,2015-12-17 Gain a clear understanding of pathophysiology and lab testing Clinical Chemistry Fundamentals and Laboratory Techniques prepares you for success as a medical lab technician by simplifying complex chemistry concepts and lab essentials including immunoassays molecular diagnostics and quality control A pathophysiologic approach covers diseases that are commonly diagnosed through chemical tests broken down by body system and category such as respiratory gastrointestinal and cardiovascular conditions Written by clinical chemistry educator Donna Larson and a team of expert contributors this full color book is ideal for readers who may have minimal knowledge of chemistry and are learning laboratory science for the first time Full color illustrations and design simplify complex concepts and make learning easier by highlighting important material Case studies help you apply information to real life scenarios Pathophysiology and Analytes section includes information related to diseases or conditions such as a biochemistry review disease mechanisms clinical correlation and laboratory analytes and assays Evolve companion website includes case studies and animations that reinforce what you ve learned from the book Laboratory Principles section covers safety quality assurance and other fundamentals of laboratory techniques Review questions at the end of each chapter are tied to the learning objectives helping you review and retain the material Critical thinking questions and discussion questions help you think about and apply key points and concepts Other Aspects of Clinical Chemistry section covers therapeutic drug monitoring toxicology transplantation and emergency preparedness Learning objectives in each chapter help you to remember key points or to analyze and synthesize concepts in clinical chemistry A list of key words Is provided at the beginning of each chapter and these are also bolded in the text Chapter summaries consist of bulleted lists and tables highlighting the most important points of each chapter A glossary at the back of the book provides a quick reference to definitions of all clinical chemistry terms *Respiratory Care: Patient Assessment and Care Plan Development* David C. Shelledy,Jay I. Peters,2016 For all students and clinicians assessing or caring for patients with cardiopulmonary disorders Respiratory Care Patient Assessment and Care Plan Development is a must have resource As the most comprehensive reference available it is a guide to the evaluation of the patient and the development and implementation of an appropriate evidence based respiratory care plan Respiratory Care Patient Assessment and Care Plan Development describes the purpose

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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

Proving Medical Diagnosis and Prognosis:  
Neurological tests: musculoskeletal-nervous system Marshall Houts, Leonard Marmor, 1989

**Surgical Technology** Joanna Kotcher Fuller, Joanna Ruth Fuller, 2012-11-07 Deliver the best patient care before during and after surgery with this straightforward step by step guide to surgical skills and operating room procedures It provides comprehensive coverage of all the updated AST Core Curriculum 6th Edition components health care sciences technological sciences patient care concepts surgical technology and surgical procedures A mentoring approach makes even complex skills and techniques easy to understand User friendly features such as full color illustrations chapter outlines and summaries review questions critical thinking exercises and technique boxes help you focus on the most important concepts and make it easier to retain and recall critical information Chapter objectives correspond to the latest AST Core Curriculum objectives to ensure you have access to the most reliable information in the operating room Enhanced critical thinking scenarios at the end of each chapter help you strengthen your critical thinking and clinical decision making skills and highlight practical applications of key concepts Additional information on special populations including bariatric pregnant physically or mentally challenged isolation trauma language barrier and substance abuse patients highlights important considerations for the surgical technologist regarding transfer preparation and procedure set up Expanded coverage of surgical lasers keeps you up to date with the latest technology so you can effectively assess the function assembly use and care of equipment in the surgical suite UPDATED

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