

# Chapter 17 Blood

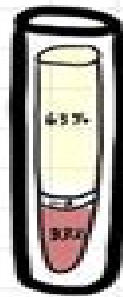
## Blood Content:

**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

**Judi L. Nath**



## **Anatomy And Physiology Chapter Blood Notes:**

The Essentials of Anatomy, Physiology, and Hygiene Roger Sherman Tracy, 1884      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 Outlines of Anatomy, Physiology, and Hygiene Roger Sherman Tracy, 1889      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      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

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**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

**USMLE Step 1 Lecture Notes 2017: Pharmacology** Kaplan Medical, 2017-01-03 Publisher's Note Products purchased from 3rd party sellers are not guaranteed by the publisher for quality authenticity or access to any online entitles included with the product The only official Kaplan Lecture Notes for USMLE Step 1 cover the comprehensive information you need to ace the exam and match into the residency of your choice Up to date Updated annually by Kaplan's all star faculty Integrated Packed with clinical correlations and bridges between disciplines Learner efficient Organized in outline format with high yield summary boxes Trusted Used by thousands of students each year to succeed on USMLE Step 1

**Mosby's Paramedic Textbook** Mick J. 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

**Today's Medical Assistant** Kathy Bonewit-West, BS, MEd, Sue Hunt, Edith Applegate, MS, 2015-10-13 Launch your career in medical assisting with Today's Medical Assistant Clinical AIDS Hepatitis latex glove allergies vital signs pediatrics immunization information IM injection theory child abuse colonoscopies IV therapy CLIA waived tests Unique learning aids throughout the book include procedure charting examples outlines detailed learning objectives and key terms for each chapter Highlight boxes What Would You Do What Would You Not Do boxes Patient Teaching boxes On the Web boxes Putting It All into Practice boxes Memories from Practicum boxes glossary of key terms Arsenal of engaging activities on the Evolve companion site gives users a fun way to practice their medical assisting knowledge Over 120 procedures give readers clear illustrated guidance on each step of every procedure The procedural videos on the Evolve companion site enable users to view the procedures in action 8th grade reading level makes material approachable and easy to understand for all types of readers Full color design makes the book visually stimulating NEW Chapter on nutrition underscores the CAAHEP curriculum's emphasis on nutrition by covering all of the latest nutritional information that pertains to today's medical assistants NEW Updated chapters on emergency preparedness and medical records ensure readers are up to date on the latest advances and rulings in these topical areas NEW Updated content aligned to the most recent CAAHEP and ABHES competencies ensures readers have the latest information needed to

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knowledge Application to EMR where appropriate prepares you for the real world by dealing with electronic medical records

**Essential Revision Notes in Medicine for Students** Philip A. Kalra, 2006 Designed to help medical students through their exams Built around the successful Essential Revision Notes for MRCP this title focuses on what is essential learning for medical undergraduates and gives readers an all round knowledge of medicine at this level **A Treatise on Anatomy,**

**Physiology, and Hygiene** Calvin Cutter, 1872 **CliffsNotes EMT-Basic Exam Cram Plan** Northeast Editing, Inc., 2011-07-15 It's EMT Basic Exam Crunch Time Get a plan to ace the exam and make the most of the time you have left Whether you have two months one month or even just a week left before the exam you can turn to the experts at CliffsNotes for a trusted and achievable cram plan to ace the EMT Basic Exam without ever breaking a sweat First you'll determine exactly how much time you have left to prepare for the exam Then you'll turn to the two month one month or one week cram plan for week by week and day by day schedules of the best way to focus your study according to your unique timeline Each stand alone plan includes Diagnostic test helps you pinpoint your strengths and weaknesses so you can focus your review on the topics in which you need the most help Subject reviews cover everything you can expect on the actual exam preparatory airway patient assessment medical emergencies trauma infants and children operations advanced airway practical skills and anatomy and physiology Full length practice test with answers and detailed explanations a simulated EMT Basic Exam gives you an authentic test taking experience Test prep essentials from the experts at CliffsNotes 2 months to ace the test 1 month to ace the test 1 week to ace the test **An Atlas of Clinical Nuclear Medicine, Second Edition** Ignac

Fogelman, Michael N. Maisey, 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 **Urinalysis in the Dog and Cat** Dennis J. Chew, Patricia A.

Schenck, 2023-04-18 Urinalysis in the Dog and Cat A comprehensive up to date textbook for performing and interpreting urinalysis in dogs and cats with content that remains accessible to those in primary care and specialty practices In Urinalysis in the Dog and Cat a logical sequence to collection of urine performing the complete urinalysis physical and chemical properties along with urinary sediment microscopy and interpretation of results is presented The FAQ chapter and the chapter on urinalysis case examples provide easily accessible information for primary care veterinarians and technicians as well as veterinary students Each didactic chapter is designed to provide basic information first and then more advanced materials deeper into each chapter Some materials will also be useful to specialists and those in advanced training An extensive review of proteinuria is included as a separate chapter Automated urine chemistry by dipstrip and automated urinary sediment microscopy are discussed in some detail as this technology increasingly will be incorporated in veterinary

laboratory practice The text is accompanied by hundreds of high quality photographs and medical illustrations that highlight common and rare findings from the urine of dogs and cats Numerous algorithms suggest possible pathways for the diagnosis and treatment of urinary disorders This book is destined to be widely used in veterinary hospitals by seasoned and young attending veterinarians seeking to know more about urinalysis as well as by veterinary laboratory technicians Several sections of this book will be useful in the teaching of basic concepts to veterinary students The authors have also included An introduction to the philosophy of urinalysis and the detailed information about collection of urine from dogs and cats Comprehensive explorations of urine sample handling preparation and analysis Detailed aspects of USG as the most important physical property of canine and feline urine In depth discussions of urine chemistry dipstrip evaluation for pH protein occult blood glucose ketones and bilirubin Extensive detailing of urinary sediment microscopy Sections on FAQ and urinalysis case examples allow the reader to test their knowledge about urinalysis Urinalysis in the Dog and Cat is an essential reference for primary care veterinarians veterinary technicians veterinary students those in advanced training programs and specialists interested in learning more about disorders of the urinary tract



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