

Chapter 17 Blood

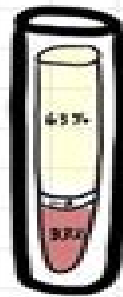
Blood Content:

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

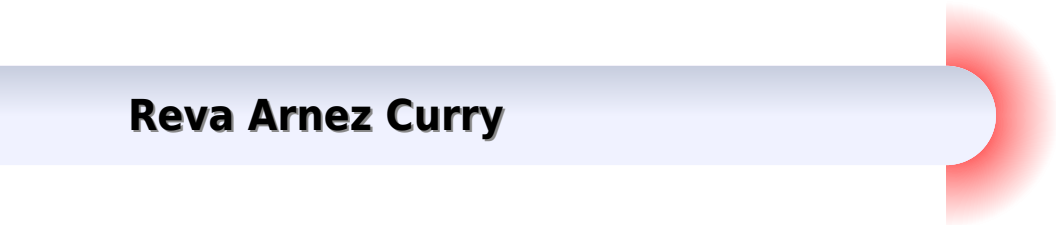
hemocytoblasts - hematopoietic
Stem Cells

hematocrit - % of blood volume that
is in RBCs

47% $\pm$ 5% (males), 42% $\pm$ 5% (females)

Anatomy And Physiology Chapter Blood Notes

Reva Arnez Curry



Anatomy And Physiology Chapter Blood Notes:

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 Essentials of Anatomy, Physiology, and Hygiene* Roger Sherman Tracy, 1884 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 the latest information needed to obtain employment and long term success on the job NEW New procedures address the affective behavior based MAERB competencies to provide example driven learning tools NEW Updated art program focuses on the workings of a modern medical office and includes updated illustrations and photographs

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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 *Primary Care, Second Edition* Joanne K. Singleton, Robert V. DiGregorio, PharmD, BCACP, Carol Green-Hernandez, Stephen Paul Holzemer, PhD, RN, Eve S. Faber, MD, Lucille R. Ferrara, Jason T. Slyer, 2014-11-12 Print CourseSmart **Survival Guide for Anatomy & Physiology** Kevin T. Patton, 2013-10-15 Don t be overwhelmed by the perils and pitfalls of learning A P Survival Guide for Anatomy Physiology 2nd Edition provides a quick and easy overview of tips strategies and key A P content to make studying more productive more fun and less time consuming A perfect on the go reference this handy guide is packed with colorful cartoons A P visuals illustrated tables and keen insights to help you prepare for even the most dangerous labs and exams Joining this excellent adventure are two new survival skills chapters plus strategies for using digital resources effectively Written by renowned author and educator Kevin Patton this book makes it easier to survive and conquer A P Plan a Learning Strategy section helps you study more effectively by showing how to tailor your learning activities to suit your learning style Part 2 Maps Charts and Shortcuts breaks the subject of A P into six sections so you can quickly find the information you need in an easy to read and understand format Mnemonic devices and memorable analogies help you remember A P concepts with ease Specific test taking strategies help you prepare for and pass exams Instructions on how to read your A P textbook lead to greater comprehension Dozens of tables make it easy to access

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do in specific emergency situations New OSHA Bloodborne Pathogens video improves your understanding of personal safety following the OSHA standards Pronunciation section in the Terminology Review gives you confidence with pronunciation and medical knowledge Application to EMR where appropriate prepares you for the real world by dealing with electronic medical records **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

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

Sonography Reva Arnez Curry,2015-10-30 Without a thorough knowledge of the appearance of normal anatomy you may have a tough time recognizing abnormalities in ultrasound images Get a firm grounding in normal anatomy and physiology from an ultrasound perspective with Sonography Introduction to Normal Structure and Function 4th Edition The new edition of this highly visual introductory text presents a wealth of ultrasound images accompanied by labeled drawings with detailed legends to increase your comfort with normal anatomy as it appears during scanning Its consistent chapter format makes the

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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

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