

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 10 Blood Notes

Ian Peate, Muralitharan Nair



Anatomy And Physiology Chapter 10 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

Fundamentals of Anatomy and Physiology for Student Nurses Ian Peate, Muralitharan

Nair, 2011-11-28 The mind and the body when working in harmony is a fantastic system capable of extraordinary things With an applied interactive and highly visual approach Fundamentals of Anatomy and Physiology for Student Nurses provides students with an exciting and straightforward understanding of anatomy and physiology enabling them to deliver high quality care in any setting This book covers the structure and functions of the human body with clinical applications throughout Key features A clear straightforward book on anatomy and physiology for all students in nursing and allied health Fully interactive with an activity section at the end of each chapter featuring multiple choice questions diagram labelling test your learning questions crosswords and find out more Generous full colour illustrations throughout Clinical considerations and scenarios throughout showing how the material can be applied to daily practice A companion website where you ll find further exercises illustrations and interactive MCQs www.wiley.com/go/peate

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Core Curriculum for Infusion Nursing Infusion Nurses Society, Mary Alexander, 2023-08-15 An official publication of the Infusion Nurses Society Core Curriculum for Infusion Nursing 5th Edition provides comprehensive preparation for the Certified Registered Nurse Infusion CRNI exam from the global authority on infusion nursing and helps you deliver optimal care in any practice setting The convenient outline format streamlines review and ensures fast access to essential information across the core content areas of Technology and Clinical Application Fluid and Electrolyte Balance Pharmacology Infection Prevention and Control and Transfusion Therapy Antineoplastic Biologic Therapy and Parenteral Nutrition

Great Ways to Learn Anatomy and Physiology Charmaine McKissock, 2014-11-19 This highly visual text is the perfect companion for anyone studying anatomy and physiology Offering innovative techniques to help students with their learning this user friendly accessible study skills text is the perfect accompaniment to any course or textbook Complex processes are brought to life with imaginative diagrams and story lines which aid understanding reinforce memory and also support students with memory dyslexic or mathematical difficulties This second edition features a fully updated section on first aid and brand new content on making posters and presentations New to this Edition Fully updated section on first aid New content on creating posters and presentations *Introduction to Anatomy and Physiology for Healthcare Students* David Sturgeon, 2018-03-09 This book provides a highly accessible introduction to anatomy and physiology Written for students studying the subject for the first time it covers the human body from the atomic and cellular levels through to all the major systems and includes chapters on blood immunity and homeostasis Logically presented the chapters build on each other and

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Clinical Anesthesia Paul G. Barash, 2009 The premier single volume reference in the field of anesthesia. Clinical Anesthesia is now in its Sixth Edition with thoroughly updated coverage, a new full color design and a revamped art program featuring 880 full color illustrations. More than 80 leading experts cover every aspect of contemporary perioperative medicine in one comprehensive, clinically focused, clear, concise and accessible volume. Two new editors, Michael Cahalan MD and M. Christine Stock MD, join Drs. Barash, Cullen and Stoelting for this edition. A companion Website will offer the fully searchable text plus access to enhanced podcasts that can be viewed on your desktop or downloaded to most Apple and BlackBerry devices.

Sanders' Paramedic Textbook Mick J. Sanders, Kim McKenna, American Academy of Orthopaedic Surgeons (AAOS), 2024-01-17 Based on current guidelines, standards and medical research in the EMS field, Sanders Paramedic Textbook Sixth Edition is both a comprehensive learning tool for paramedic students and a reliable desk reference for emergency physicians. This critical resource includes in-depth explorations of key subjects such as pathophysiology, pharmacology, airway management, medical disorders, patient assessment and trauma.

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