

# Chapter 17 Blood

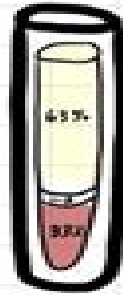
## Blood Content:

**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 Blood Chapter

**Toby L. Wolson**



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

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      **Phlebotomy Exam Review, Enhanced Edition** Ruth E. McCall, 2020-06-19 Phlebotomy Exam Review

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*Handbook of Bloodstain Pattern Analysis* Toby L. Wolson,2024-12-13 The Handbook of Bloodstain Pattern Analysis captures the latest understanding of the science that supports bloodstain pattern analysis BPA and includes the results of numerous research studies using modern technologies not found in previously published books It provides the BPA community with a modern up to date reference and training manual to outline and validate the utility repeatability and reliability of BPA science BPA has recently been presented in the news media as an example of junk science used in a handful of cases involving wrongful convictions

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**The Nature of Disease** Thomas H. McConnell, 2007 Geared to allied health students and written in an engaging narrative style this pathology text is an easy to read primer on the etiology and pathogenesis of human disease This unique book provides a basic understanding of pathology without microscopic pathology and molecular biology details that health professions students do not need Each chapter reviews normal anatomy and physiology explains the development of common diseases lists the major determinants of disease presents clinical case studies and includes end of chapter problem solving questions A bound in CD ROM includes animations and a 250 question quiz Faculty resources include a 2 000 question test bank and PowerPoint slides with lecture notes

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*Nano and Bio Heat Transfer and Fluid Flow* Majid Ghassemi, Azadeh Shahidian, 2017-03-15 Nano and Bio Heat Transfer and Fluid Flow focuses on the use of nanoparticles for bio application and bio fluidics from an engineering perspective It introduces the mechanisms underlying thermal and fluid interaction of nanoparticles with biological systems This book will help readers translate theory into real world applications such as drug delivery and lab on a chip The content covers how transport at the nano scale differs from the macro scale also discussing what complications can arise in a biologic system at the nano scale It is ideal for students and early career researchers engineers conducting experimental work on relevant applications or those who develop computer models to investigate design these systems Content coverage includes biofluid mechanics transport phenomena micro nano fluid flows and heat transfer Discusses nanoparticle applications in drug delivery Covers the engineering fundamentals of bio heat transfer and fluid flow Explains how to simulate analyze and evaluate the transportation of heat and mass problems in bio systems

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Wilson,2017-09-20 A comprehensive textbook on the principles and practice of sedation in dentistry Drawing on the success of *Clinical Sedation in Dentistry* this new edition covers all aspects of conscious sedation in dentistry Written by experienced educators and internationally renowned researchers in the field *Conscious Sedation for Dentistry* Second Edition has been fully updated to include new national guidelines and equipment recommendations and a companion website featuring self assessment questions Clear concise and reader friendly throughout chapters cover anxiety management applied anatomy and physiology patient assessment pharmacology of sedation agents oral and intranasal sedation inhalation sedation intravenous sedation complications and emergencies sedation and special care dentistry and medico legal and ethical considerations *Conscious Sedation for Dentistry* Second Edition is ideal for undergraduate dental students and dentists undertaking conscious sedation as well as dental nurses completing post registration sedation courses      *Livestock Products Technology*

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