

Chapter 17 Blood

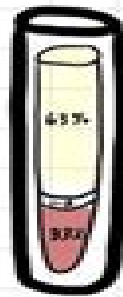
Blood Content:

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

49% $\pm$ 5% (males), 42% $\pm$ 5% (females)

Anatomy Study Guide Blood

Brigitte Niedzwiecki

A red circular graphic with a gradient, appearing as a stylized drop or a partial circle, located to the right of the author's name.

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Thomas, 2012-04-10 This is the first comprehensive study guide covering all aspects of pediatric critical care medicine It fills a void that exists in learning resources currently available to pediatric critical care practitioners The major textbooks are excellent references but do not allow concise reading on specific topics and are not intended to act as both text and study guide There are also several handbooks available but these are usually written for general pediatric residents and lack the advanced physiology and pathophysiology required for the higher level pediatric critical care practitioner [ACLS Study Guide - E-Book](#) Barbara J Aehlert, 2021-08-05 NEW Updated content includes the latest guidelines from the American Heart Association Guidelines for Cardiopulmonary Resuscitation and Emergency Cardiovascular Care and the International Consensus on Cardiopulmonary Resuscitation and Emergency Cardiovascular Care Science with Treatment Recommendations NEW 20 new illustrations are added to the book s hundreds of illustrations [CCRN Study Guide 2025-2026](#) Pinnacle Test Prep, 2025-03-05 CCRN Study Guide 2025 2026 Your Ultimate Resource for Critical Care Nursing Certification Success Master the CCRN exam with confidence even with the most challenging critical care concepts Are you a critical care nurse preparing for the CCRN certification Looking for a comprehensive study resource that covers everything from cardiovascular emergencies to ethical practice The CCRN Study Guide 2025 2026 from Pinnacle Test Prep delivers exactly what you need to pass your exam on the first attempt This meticulously researched study guide is designed specifically for adult critical care nurses seeking certification Inside you ll find In depth coverage of all clinical judgment content areas including cardiovascular pulmonary neurological renal gastrointestinal endocrine hematology immunology and multisystem topics Detailed explanations of complex concepts presented in clear concise language that s easy to understand and retain Three complete practice tests with 150 questions each to build your confidence and identify knowledge gaps Step by step analysis of ECG rhythms hemodynamic monitoring and arterial blood gas interpretation Evidence based pharmacological interventions for critical care scenarios Visual aids diagrams and memory tools to help you master difficult concepts Test taking strategies specifically designed for the CCRN exam format Whether you re a first time test taker or looking to renew your certification this guide provides the focused review you need Each chapter builds your knowledge systematically from basic principles to advanced applications ensuring you re prepared for every aspect of the exam Don t risk your certification with outdated or incomplete study materials The CCRN Study Guide 2025 2026 reflects the latest AACN test plan and critical care nursing standards giving you the most current preparation available Click Now to take the first step toward CCRN certification and advancing your critical care nursing career **Study Guide for The Human Body in Health and Illness - E-Book** Barbara Herlihy, 2021-06-26 Get the most out of your A P textbook with this practical review Corresponding to the chapters in The Human Body in Health and Illness 7th Edition this study guide makes it easy to

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