

INTRODUCTION TO HEMATOLOGY

HEMATOLOGY / HAEMATOLOGY

- greek words "Haima" Blood; "Logos" Study
- study of the quality & quantity of the cellular elements of the peripheral blood and the bone marrow which includes **Erythrocytes (RBC)**, **Leukocytes (WBC)**, & **Thrombocytes (PLT)**
- study of the disorders & abnormalities related or associated with the quality & quantity of the cellular elements of the blood
- study of the laboratory procedures & techniques being used to examine the quality & quantity of the cellular elements of the blood

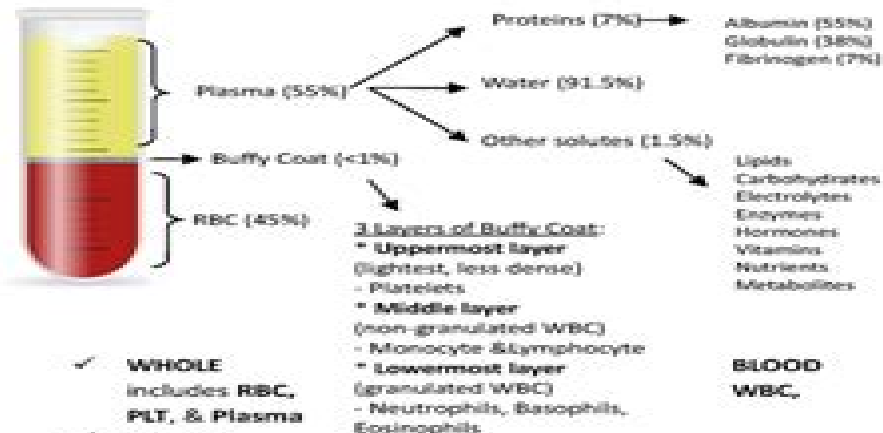
GENERAL CHARACTERISTICS OF THE BLOOD:

- ✓ **In vivo:** Fluid; **In vitro:** Solid (coagulates 5-10mins)
- ✓ **Thick & Viscous** (3-5x thicker than water)
- ✓ makes up 7-8% of the total body component or 75-85mL of blood per kg body weight
- ✓ approximately 20g solid per 100mL blood
- ✓ **Total Volume:**
 - **Adult male:** 5-6 L
 - **Adult female:** 4-5 L
 - **Newborns:** 250-350 mL
- ✓ **pH:** 7.35-7.45 / Average: 7.40
 - **Venous blood:** 7.35
 - **Arterial blood:** 7.45
- ✓ **Specific Gravity:** # of solutes dissolved in the blood
 - **Whole blood:** 1.045-1.066
 - **Plasma:** 1.025-1.029
 - **Serum:** 1.024-1.028
- ✓ **Color:**
 - **Arterial blood:** Bright red (Hgb is saturated with Oxygen; saturated HbO_2)
 - **Venous blood:** Dark purplish red (Hgb is not saturated with Oxygen; 0% HbO_2)
 - **In pulmonary arteries & veins:**
 - ◆ Hgb with O_2 : Purple
 - ◆ Hgb without O_2 : Blue
- ✓ **Osmolality:**
 - concentration of solutes dissolved in the blood
 - uses **Osmometer** for measurement
 - **Reference range:** 281-297 mOsm/kg

FUNCTIONS OF THE BLOOD:

- ✓ Aids in Respiration
- ✓ Transports Nutrients & Hormones
- ✓ Eliminates Wastes
- ✓ Maintains Body temperature
- ✓ Responsible in Body defense mechanism

COMPOSITION OF THE BLOOD:



- ✓ **WHOLE** includes RBC, PLT, & Plasma
- ✓ When a specimen is centrifuged, **WBC & PLT** make up the **BUFFY COAT** (Small white layer of cells lying between RBC & Plasma)
- ✓ **Plasma** is the liquid portion of unclotted blood
- ✓ **Serum** is the fluid that remains after coagulation has occurred & clot has formed

SERUM	PLASMA
Liquid portion of CLOTTED BLOOD	Liquid portion of UNCLOTTED or ANTICOAGULATED BLOOD
clear & transparent	Straw colored & slightly hazy
Has no FII	Has FII—has complete set of unconsumed PCF
Has FII, FIV, FVIII:C, FXIII—completely consumed in the coagulation; forms as a part of the clot	
FII—not completely consumed > 80% is consumed < 20% remains in serum & is called "Residual Prothrombin"	

Hematology Procedures Manual

AW Chickering



Hematology Procedures Manual:

Clinical Hematology Mary Louise Turgeon, 2005 This established entry level hematology text enters its Fourth Edition with even more of the focused coverage and learning tools that have made it so successful Well illustrated and reader friendly the book features extensive study and review tools including learning objectives case studies procedure boxes and review questions The fully updated Fourth Edition includes new material on safety issues transplants sickle cell anemia and genetic diagnostics New chapters address flow cytometry cytochemistry and hemostasis and coagulation Chapter summaries have been boxed for rapid reference and this edition includes an expanded 16 page color insert Midwest **Hematology procedures manual**, 1977 Clinical Hematology: Theory & Procedures, Enhanced Edition Mary Lou Turgeon, 2020-06-29 Clinical Hematology Theory Procedures Enhanced Sixth Edition is a competency based text with built in study tools to help you master the theory of clinical hematology and the procedures used to diagnose and treat disorders of the blood and bone marrow **Manual of Basic Hematology Procedures** Carol Ann Itatani, 1980 *Laboratory Procedures in Clinical Hematology* United States. Department of the Army, 1963 *Standard Operating Procedures (Sops) in a Hematology Laboratory* Dr. BHUSHAN M. WARPE, Dr. SHWETA S. JOSHI, 2025-09-02 This SOP manual authored by Dr Bhushan and Dr Shweta details essential practices in a Hematology Laboratory to uphold accuracy quality and regulatory compliance It covers core diagnostic procedures including complete blood counts peripheral smear examination ESR reticulocyte counts coagulation profiles and advanced hematology tests alongside critical quality assurance protocols such as delta checks IQC TAT monitoring sample rejection and disposal guidelines The manual also addresses laboratory safety equipment calibration contingency measures and outsourcing to NABL accredited centers Compliant with NABL 112 NABH 6th edition and ISO 15189 standards it serves as a vital training and operational guide for DMLT BPMT and MD Pathology students With an emphasis on consistency audit preparedness and professional excellence it reflects Swami Vivekananda's insight All knowledge that the world has ever received comes from the mind underscoring the role of mindful structured practice in delivering reliable hematology services **Laboratory Procedures in Haematology** Mehdi, SR., 2006 *Hematology* Bernadette F. Rodak, George A. Fritsma, Kathryn Doig, 2007-01-01 Textbook explores key aspects of hematology from normal hematopoiesis through diseases of erythroid myeloid lymphoid and megakaryocytic origin Includes a revised section on hemostasis and thrombosis Case studies and chapter summaries are included **Laboratory Procedures in Clinical Hematology** United States. Department of the Army, 1963 **Interpharm Master Keyword Guide** Interpharm, 2003-05-27 This guide contains over 20 000 entries completely cross indexed and quoted in context to provide readers with instant access to every noun phrase and concept used by the Drug Enforcement Administration and U S Food and Drug Administration *Clinical Laboratory Guidelines Medicare* United States. Health Care Financing Administration. Office of Standards and Certification, 1978 **Field Manuals** United States. War Department, 1977 **Monthly Catalog of United**

States Government Publications United States. Superintendent of Documents,1982 **Monthly Catalogue, United States Public Documents** ,1982 *Guide to the evaluation of educational experience in the Armed Service* 76 American Council on Education,1977 **Clinical Hematology: Principles, Applications, and Molecular Concepts** Mary Louise Turgeon,2025-03-05 Clinical Hematology features strong pedagogy that sets the quality benchmark for hematology competency based content needed by MLT and MLS students and is informed by and mapped to ASCLS Entry Level and Professional Body of Knowledge competencies in hematology hemostasis and coagulation and molecular applications

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Table of Contents Hematology Procedures Manual

1. Understanding the eBook Hematology Procedures Manual
 - The Rise of Digital Reading Hematology Procedures Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Hematology Procedures Manual
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Hematology Procedures Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Hematology Procedures Manual
 - Personalized Recommendations

- Hematology Procedures Manual User Reviews and Ratings
- Hematology Procedures Manual and Bestseller Lists
- 5. Accessing Hematology Procedures Manual Free and Paid eBooks
 - Hematology Procedures Manual Public Domain eBooks
 - Hematology Procedures Manual eBook Subscription Services
 - Hematology Procedures Manual Budget-Friendly Options
- 6. Navigating Hematology Procedures Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - Hematology Procedures Manual Compatibility with Devices
 - Hematology Procedures Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Hematology Procedures Manual
 - Highlighting and Note-Taking Hematology Procedures Manual
 - Interactive Elements Hematology Procedures Manual
- 8. Staying Engaged with Hematology Procedures Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Hematology Procedures Manual
- 9. Balancing eBooks and Physical Books Hematology Procedures Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Hematology Procedures Manual
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Hematology Procedures Manual
 - Setting Reading Goals Hematology Procedures Manual
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Hematology Procedures Manual
 - Fact-Checking eBook Content of Hematology Procedures Manual

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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