

HEMATOLOGY LECTURE

Leukocytes in normal peripheral blood smear

Cell type	Function	PB
Neutrophilic Band	Precursors of segmented cells that provide antibacterial response	0-4%
Seg. Neutrophils	Phagocytosis of bacteria, migrate into tissue for this purpose	50-70%
Lymphocytes	B cells: mature and form plasma cells which produce antibody T cells: cytotoxic defense against viruses, foreign antigens and tumors	18-42%
Monocytes	Phagocytosis of bacteria, protozoan, fungi, foreign bodies Migrate to target tissue	2-11%
Eosinophils	Immune defense against parasites, immune regulation	1-3%
Basophils	Regulation of the response to local inflammatory processes	0-2%

GRANULOCYTES

NEUTROPHILS

- **PB = 50-70 %**
- **Absolute count = $1.7 \text{ to } 7.5 \times 10^9/\text{L}$**
- **Polymorphonuclear cells**
 - (PMNs) – prominent nuclear segmentation
- **Macropolycytes**
 - Hyper segmented neutrophil
 - o Large polymorphonuclear neutrophils with a diameter of $>16 \mu\text{m}$ and containing 6-14 nuclear bodies

Neutrophilic Lineage

Cell Surface Markers

Myeloid lineage specific – **CD 13,15,33,117**
Neutrophilic precursors – **CD 34, HLA-DR**
Mature neutrophils- **CD 11B,13,15,16**

NOTE: MYELOID balokad sang M is 3

NEUTROPHIL DISTRIBUTION AND KINETICS

- **Rate of production: $0.9-1.0 \times 10^9$ cells/kg per day**
- Pool/compartments
 - **Proliferative pool: 2.1×10^9 cells/kg**
 - **Maturation pool: 5.6×10^9 cells/kg, or a 5-day supply**
- Transit time
 - HSC to myeloblast: unmeasured
 - Myeloblast to myelocyte: **6 days**
 - Myelocyte to Maturation pool: **4-6 days**
- **G-CSF:** stimulates release from the bone marrow
- **Circulating neutrophil pool (CNP)**
- **Marginated neutrophil pool (MNP):** loosely localized to the walls of capillaries in tissues such as the **liver, spleen, and the lung** (larger portion of peripheral neutrophils)
- Half-life in the blood: **7 hours**
- Life span in tissues: **Variable**
 - Depending on whether or not they are responding to infectious or inflammatory agents

FERRATA CELLS

- Tissue neutrophil
 - Large light blue cytoplasm with fine lattice-like structure
 - Granules vary from **red** to blue and tend to be arranged in chain (bead-like aggregates)
 - Nucleus is round or oval with coarse chromatin and distinct linear pattern
 - Nucleoli are usually inconspicuous
- Increased in **Naegeli** type of monocytic leukemia, pernicious anemia, and neutropenic states due to chemicals and cytotoxic agents

NOTE: neutropenic means low

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Nevin Campbell Hughes-Jones



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refresher course Covers all important clinical information found in larger textbooks in a more succinct and easy to understand manner Covers essential concepts in hematopathology in such a way that fellows and clinicians understand the methods without having to become specialists in the field **Hematology** Naval Medical School (U.S.),1943 Lecture Notes in Hematology Keith W. Prasse,Ontario Veterinary College,1984 **Hematology E-Book** Ronald Hoffman,Edward J. Benz,Leslie E. Silberstein,Helen Heslop,Jeffrey Weitz,Mohamed E. Salama,2022-10-27 Extensively revised comprehensive content from leading global contributors ensures that Hematology 8th Edition remains your 1 choice for expert guidance in all areas of this rapidly advancing subspecialty This edition reflects the numerous advances that are redefining the field and dramatically influencing new approaches to diagnosis treatment and outcomes Well illustrated and clinically focused it details the basic science and clinical practice of hematology and hematopoietic cellular therapy covering virtually all aspects of hematology in one definitive resource Covers all hematologic disorders including comprehensive discussions of hematologic malignancies individualized patient care cell based therapies transplantation transfusion medicine hemostasis thrombosis and consultative hematology in one convenient volume Provides state of the art guidance from global experts at the forefront of the latest research and clinical practice Provides extensive updates throughout on basic science research advances in molecular diagnostics new drugs immunotherapies personalized medicine laboratory medicine transfusion medicine stem cell transplantation and clinical treatment for all hematologic malignancies and non malignancies Contains new chapters on gene editing the impact of mitochondria on hematopoiesis myelodysplastic syndrome myeloproliferative neoplasm overlap syndromes immunotherapy and management of its toxicities transfusion medicine in sickle cell disease principles of radiation therapy and COVID 19 including complications of vaccination and its impact on the hematologic system Discusses many new advances in the field including details and the future of gene therapy for hemophilia gene editing for sickle cell disease and thalassemia the evolution of cellular therapy use of cells transfusion medicine vs protein therapy gene sequencing immunotherapy and new targeted drugs Includes more decision making algorithms for formulating diagnoses and personalized treatment plans for those highly complex disorders that require individualized approaches Addresses the effects of aging on hematopoiesis and on the manifestations of a variety of hematologic disorders Discusses cardio oncology and its impact on the treatment of patients with hematologic disorders Presents relevant basic science as background for clinical application in later sections An eBook version is included with purchase The eBook allows you to access all of the text figures and references with the ability to search customize your content make notes and highlights and have content read aloud International journal of laboratory hematology ,2007 **Rodak's Hematology - E-Book** Elaine M. Keohane,Michelle Montgomery Preston,Kamran M. Mirza,Jeanine M. Walenga,2024-04-15 Selected for 2025 Doody s Core Titles in Laboratory Medicine Make sure you are thoroughly prepared to work in a clinical laboratory Rodak s Hematology Clinical Principles and Applications 7th Edition uses hundreds of full color photomicrographs to help you understand the

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Table of Contents **Hematology Lecture Notes Pdfslibforme**

1. Understanding the eBook **Hematology Lecture Notes Pdfslibforme**
 - The Rise of Digital Reading **Hematology Lecture Notes Pdfslibforme**
 - Advantages of eBooks Over Traditional Books
2. Identifying **Hematology Lecture Notes Pdfslibforme**
 - 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 Lecture Notes Pdfslibforme**
 - User-Friendly Interface
4. Exploring eBook Recommendations from **Hematology Lecture Notes Pdfslibforme**
 - Personalized Recommendations
 - **Hematology Lecture Notes Pdfslibforme** User Reviews and Ratings
 - **Hematology Lecture Notes Pdfslibforme** and Bestseller Lists

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