

# Hematology 1

## CHAPTER 16: DIFFERENTIAL COUNT AND BLOOD SMEAR PREPARATION

### DIFFERENTIAL COUNT

→ a.k.a leukocyte differential count, peripheral differential, white blood cell morphology, WBC differential, diff

→ Formal name: White Blood Cell Count Differential

→ Normally run as part of CBC

→ Determine the relative no. of each type of WBC present in peripheral blood

→ Expressed as:

- **Percentage** (relative numbers of each type of WBC in relationship to the total WBC)
- **Absolute value** (percentage x total WBC)

### USED OF DIFFERENTIAL COUNT

→ Assesses the ability of the body to respond to and eliminate infection

→ Detects the severity of allergic and drug reactions

→ Detects the response to parasitic and other types of infection

→ Essential in evaluating the reaction to viral infections

→ Evaluates response to chemotherapy

→ Identify various stages of leukemia

### MANUAL DIFFERENTIAL COUNT

→ Approximates the WBC ct

| # WBC / hpf | WBC/mm <sup>3</sup> |
|-------------|---------------------|
| 2 - 4       | 4,000 - 7,000       |
| 4 - 6       | 7,000 - 10,000      |
| 7 - 10      | 10,000 - 13,000     |
| 10 - 20     | 13,000 - 18,000     |

→ Five basic white blood cell types:

- Neutrophils
- Lymphocytes
- Monocytes
- Eosinophils
- Basophils



### NEUTROPHILS

→ A.K.A.: Segmented neutrophils, Segs, Polymorphonucleocytes, Polymorphonuclear neutrophils, Polys, PMNs

→ The most common of the WBCs and serve as the primary defense against infection

→ **Neutrophilia**

- Typical response to infection or serious injury: **bacterial infection**
- Inflammation disease: **appendicitis**
- Various bone marrow disorders: **chronic myelogenous leukemia**

### STAB

→ Band/staff cells

→ Seen early in the response to infection

→ "Shift to the left" - can be the earliest sign of a WBC response, even before the WBC becomes elevated

### EOSINOPHILS

→ Eos

→ Play a role in allergic disorders and in combating parasitic infections

→ **Eosinophilia**

- Increase in response to **allergic disorder; allergies**
- Inflammation of the skin
- **Scarlet fever**
- **Parasitic infections**
- Increase in response to various bone marrow disorders: **eosinophilic leukemia**

→ **Eosinopenia**

- Stress
- Steroid exposure
- Anything that may suppress WBC production generally

# Mls Hematology Study Guide

**S Marginson**



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## **Table of Contents Mls Hematology Study Guide**

1. Understanding the eBook Mls Hematology Study Guide
  - The Rise of Digital Reading Mls Hematology Study Guide
  - Advantages of eBooks Over Traditional Books
2. Identifying Mls Hematology Study Guide
  - 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 Mls Hematology Study Guide
  - User-Friendly Interface
4. Exploring eBook Recommendations from Mls Hematology Study Guide
  - Personalized Recommendations
  - Mls Hematology Study Guide User Reviews and Ratings
  - Mls Hematology Study Guide and Bestseller Lists
5. Accessing Mls Hematology Study Guide Free and Paid eBooks
  - Mls Hematology Study Guide Public Domain eBooks
  - Mls Hematology Study Guide eBook Subscription Services
  - Mls Hematology Study Guide Budget-Friendly Options

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