

# 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

**Birhanu Aberha Berele**

## **Mls Hematology Study Guide:**

*Clinical Hematology and Fundamentals of Hemostasis* Denise Harmening, 2024-02-01 A full color text lab manual atlas all in one Here are all the tools medical laboratory science students need to master the principles of hematology and the fundamentals of hemostasis Author Denise M Harmening has curated contributions from a team of expert educators and clinicians With support from her Associate Editor LeAnne Hutson she brings you comprehensive yet focused coverage that prepares you for the real world in which you will practice Begin with an introduction to clinical hematology and the anemias and then progress through white blood cell disorders and hemostasis to thrombosis and laboratory methods Find step by step laboratory procedures and critical thinking cases online at FADavis com for easy access anytime anywhere [Medical Lab](#)

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