

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 ³
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



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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 Tech Exam Cheat Sheets: High-Yield Summaries & Mnemonics](#) Birhanu Aberha Berele, 2025-10-29 Your complete medical laboratory exam prep book filled with high yield summaries mnemonics quick reference sheets and medical lab science essentials Ideal for MLT CLT MLS students and professionals preparing for ASCP AMT or board exams Study smart score high and advance your lab career [Schalm's Veterinary Hematology](#) Marjory B. Brooks, Kendal E. Harr, Davis M. Seelig, K. Jane Wardrop, Douglas J. Weiss, 2022-04-12 SCHALM S VETERINARY HEMATOLOGY An updated guide to veterinary hematology with expanded coverage on a variety of topics The revised seventh edition of Schalm s Veterinary Hematology is updated to provide a comprehensive review of all topics related to disorders of the blood in animals Designed as a gold standard reference this text covers a wide range of species in both confined and free range populations reflects the most recent trends in hematology diagnostics and discusses recent advances in traditional techniques Edited and written by an international team of experts in the field the book represents an accessible yet in depth resource for information on veterinary hematology The new edition includes a hemolymphatic tissue section that covers current understanding of basic science and the species specific hematology section is further expanded from previous editions New chapters address emerging topics in hematology and existing chapters have been revised and rearranged to improve readability and simplify access to the material This seventh edition Updates the most complete reference on veterinary hematology across species Contains a new section on basic biology of hemolymphatic tissues Expands coverage of species specific hematology Presents new and emerging topics in blood disorders and diagnostic techniques Features a reorganized contents list for an integrated easy to use reference Written for veterinary clinical pathologists and residents diagnostic laboratory staff internists and specialists Schalm s Veterinary Hematology is the most comprehensive and up to date reference on the topic A *Comprehensive Guide to Toxicology in Nonclinical Drug Development* Ali S. Faqi, 2024-02-11 Selected for 2025 Doody s Core Titles in Toxicology A *Comprehensive Guide to Toxicology in Nonclinical Drug Development* Third Edition is a valuable reference providing a complete understanding of all aspects of nonclinical toxicology in pharmaceutical research This updated edition has been expanded and re developed covering a wide range of toxicological issues in small molecules and

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