

# 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

**Kippy Shortsox**



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Rodak's Hematology - E-Book Elaine M. Keohane,Larry Smith,Jeanine M. Walenga,2015-02-19 Featuring hundreds of full color photomicrographs Rodak s Hematology Clinical Principles and Applications 5th Edition prepares you for a job in the clinical lab by exploring the essential aspects of hematology It shows how to accurately identify cells simplifies hemostasis and thrombosis concepts and covers normal hematopoiesis through diseases of erythroid myeloid lymphoid and megakaryocytic origins This text also makes it easy to understand complementary testing areas such as flow cytometry cytogenetics and molecular diagnostics Clinical lab experts Elaine Keohane Larry Smith and Jeanine Walenga also cover key topics such as working in a hematology lab the parts and functions of the cell and laboratory testing of blood cells and body fluid cells Instructions for lab procedures include sources of possible errors along with comments Case studies in each chapter provide opportunities to apply hematology concepts to real life scenarios Hematology instruments are described compared and contrasted UPDATED full color illustrations make it easier to visualize hematology concepts and show what you ll encounter in the lab with images appearing near their mentions in the text so you don t have to flip pages back and forth Hematology hemostasis reference ranges are listed on the inside front and back covers for quick reference A bulleted summary makes it easy to review the important points in every chapter Learning objectives begin each chapter and indicate what you should achieve with review questions appearing at the end A glossary of key terms makes it easy to find and learn definitions NEW coverage of hematogones in the chapter on pediatric and geriatric hematology helps you identify these cells a skill that is useful in diagnosing some pediatric leukemias UPDATED chapter on molecular diagnostics covers new technology and techniques used in the lab

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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 Clinical Hematology Study Guide Kippy

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**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

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**Exotic Animal Hematology and Cytology** Terry W. Campbell, Krystan R. Grant, 2022-03-29 The newly revised Fifth Edition of Exotic Animal Hematology and Cytology delivers a fully updated new edition of the most complete reference to hematology and cytology in exotic animals The book features high quality images and step by step descriptions of practical techniques Organized by animal class to make it easier to quickly find critical information the authors have included 45 new case studies to highlight the application of the content in a real world setting All major exotic animal groups are covered including mammals birds reptiles amphibians and fish Clinicians seeking a decision making aid for patient workup treatment and prognosis will find what they need in Exotic Animal Hematology and Cytology The book also includes Thorough cellular descriptions unique to mammalian avian herptile and fish species with extensive discussions of blood and bone marrow sample collection and hematologic techniques for each group Comprehensive evaluation of the peripheral blood specific to mammals birds herptiles and fish as well as the evaluation of bone marrow Practical discussions of hematology case studies with applications to common real world clinical problems Color atlas of hemic cells of select species for quick and easy reference Extensive examinations of cytodiagnosis and exploration of unique features within mammals birds herptiles and fish as well as cytology case studies and wet mount cases in fish Access to video clips and additional case reports on a companion website Exotic Animal Hematology and Cytology is an essential reference for veterinary clinical pathologists anatomic pathologists clinicians and technicians as well as for veterinary students taking courses involving exotic hematology and cytology

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

Laboratory Operations and Management Jeanne Isabel, Patricia Ellinger, Dana Griffin, 2024-10-01 Management and lab operations for career entry level students The path to leadership success in the lab begins with a firm foundation in the many facets of management Designed to meet the needs of today s students this new text introduces the principles of laboratory management and demonstrates how to apply them in the real world It builds a foundation in the administration of personnel and finance It also addresses the broad range

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