

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

**Linda Graeter,Elizabeth
Hertenstein,Charity Accurso,Gideon
Labiner**

Mls Hematology Study Guide:

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Clinical Hematology: Principles, Applications, and Molecular Concepts Mary Louise Turgeon, 2025-03-05 Clinical Hematology features strong pedagogy that sets the quality benchmark for hematology competency based content needed by MLT and MLS students and is informed by and mapped to ASCLS Entry Level and Professional Body of Knowledge competencies in hematology hemostasis and coagulation and molecular applications

Hematology - E-Book Bernadette F. Rodak, Elaine M. Keohane, George A. Fritsma, 2013-12-27 Featuring hundreds of full color photomicrographs Hematology Clinical Principles and Applications 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 book also makes it easy to understand complementary testing areas such as flow cytometry cytogenetics and molecular diagnostics Well known authors Bernadette Rodak George Fritsma and Elaine Keohane cover everything from working in a hematology lab to the parts and functions of the cell to laboratory testing of blood cells and body fluid cells Full color illustrations make it easier to visualize complex concepts and show what you ll encounter in the lab Learning objectives begin each chapter and review questions appear at the end Instructions for lab procedures include sources of possible errors along with comments Case studies provide opportunities to apply hematology concepts to real life scenarios Hematology instruments are described compared and contrasted Coverage of hemostasis and thrombosis includes the development and function of platelets the newest theories of normal coagulation and clear discussions of platelet abnormalities and disorders of coagulation A bulleted summary of important content appears at the end of every chapter A glossary of key terms makes it easy to find and learn definitions Hematology hemostasis reference ranges are listed on the inside front and back covers for quick reference Respected editors Bernadette Rodak George Fritsma and Elaine Keohane are well known in the hematology

clinical laboratory science world Student resources on the companion Evolve website include the glossary weblinks and content updates New content is added on basic cell biology and etiology of leukocyte neoplasias Updated Molecular Diagnostics chapter keeps you current on techniques being used in the lab Simplified hemostasis material ensures that you can understand this complex and important subject Coverage of morphologic alteration of monocytes macrophages is condensed into a table as the disorders in this grouping are more of a biochemical nature with minimal hematologic evidence

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 *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 Rodak's Hematology Elaine M. Keohane,Larry Smith,Jeanine M.

Walenga,2015-02-20 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 will 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.

Clinical Hematology Study Guide Kippy Shortsox, 2013-05-01. This study guide was designed specifically for medical laboratory students and those studying for ASCP certification as an MLT. It uses a unique approach and leaves out the gobbledygook and concentrates only on the stuff that you need to know. It begins with a thorough learning outline that leaves a space for notes on each opposing page. This allows a student to add information and tailor it to their own specific needs. It ends with a thorough multiple choice and Q & A section. This study guide includes thorough outlines and study sessions that encompass erythropoiesis, RBC morphology, and anemias.

BOC Study Guide, 2018. Elsevier's Medical Laboratory Science Examination Review Linda Graeter, Elizabeth Hertenstein, Charity Accurso, Gideon Labiner, 2014-08-28. Elsevier's Medical Laboratory Science Examination Review is a brand new resource that offers all the review practice and support you need to prepare for either the MLS or MLT certification examination. Each chapter in the book offers a thorough review on one of the core areas of Medical Laboratory Science as outlined by the ASCP Board of Certification. Practice questions are also featured at the end of each chapter, and explanations and rationales for each correct answer appear at the end of the text. Plus, an eight-page full color insert displays photomicrographs of hematological and microbiological specimens exactly as they appear under the microscope and on the MLS and MLT certification exams. A mock certification exam is included in the print book as well as online at the companion Evolve website, which also houses additional practice questions totaling 1,000 questions in all. Inclusion of both MLS and MLT level content and questions enables the book to be used for both certification exams. Print mock exam at the end of the book.

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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 biologics Topics include ADME in drug discovery pharmacokinetics toxicokinetics formulations and genetic toxicology testing The book has been thoroughly updated throughout to reflect the latest scientific advances and includes new information on antiviral drugs anti diabetic drugs immunotherapy and a discussion on post pandemic drug development challenges and opportunities This is an essential and practical resource for all toxicologists involved in nonclinical testing in industry academic and regulatory settings Provides updated unique content not covered in one comprehensive resource including chapters on stem cells antiviral drugs anti diabetic drugs and immunotherapy Includes the latest international guidelines for nonclinical toxicology in both small and large molecules Incorporates practical examples in order to illustrate day to day activities and expectations associated with working in nonclinical toxicology

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

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

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

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 of knowledge needed to become an effective leader in today s increasingly complex environment quality measures compliance safety regulations and professionalism information critical for all laboratory personnel including the new supervisor

Linne & Ringsrud's Clinical Laboratory Science E-Book Mary Louise Turgeon, 2018-12-22 Thoroughly updated and easy to follow Linne Ringsrud s Clinical Laboratory Science Concepts Procedures and Clinical Applications 8th Edition offers a fundamental overview of the laboratory skills and techniques you ll need for success in the clinical laboratory Author Mary Louise Turgeon s simple and straightforward writing clarifies complex concepts and her unique discipline by discipline approach helps you build knowledge and learn to confidently perform routine clinical laboratory tests with accurate effective results Topics like safety measurement techniques and quality assessment are woven throughout the various skills The new eighth edition also features updated content including expanded information on viruses and automation It s the must have foundation for anyone wanting to

pursue a profession in the clinical lab Broad content scope provides an ideal introduction to clinical laboratory science at a variety of levels including CLS MT CLT MLT and Medical Assisting Case studies include critical thinking and multiple choice questions to challenge readers to apply the content to real life scenarios Expert insight from respected educator Mary Lou Turgeon reflects the full spectrum of clinical lab science Detailed procedures guides readers through the exact steps performed in the lab Vivid full color illustrations familiarize readers with what they ll see under the microscope Review questions at the end of each chapter help readers assess your understanding and identify areas requiring additional study Evolve companion website provides convenient online access to all of the procedures in the text and houses animations flashcards and additional review questions not found in the printed text Procedure worksheets can be used in the lab and for assignment as homework Streamlined approach makes must know concepts and practices more accessible Convenient glossary simplifies the process of looking up definitions without having to search through each chapter NEW Updated content throughout keeps pace with constant changes in clinical lab science NEW Consistent review question format ensures consistency and enables readers to study more efficiently NEW More discussion of automation familiarizes readers with the latest automation technologies and processes increasingly used in the clinical lab to increase productivity and elevate experimental data quality NEW Additional information on viruses keeps readers up to date on this critical area of clinical lab science

AMT MLS Certification Exam The Examelot Team, 2024-09-12 AMT MLS Certification Exam Practice Questions Prepare for Success Are you looking for an effective way to prepare for the AMT Medical Laboratory Scientist MLS exam If yes then this unofficial book of practice questions is for you With 500 multiple choice questions this book covers all nine Work Areas of the AMT MLS exam including Chemistry Hematology Immunohematology Microbiology and Urinalysis and Body Fluids Each question is designed to resemble the types of questions you ll encounter on the actual exam so you can practice with confidence and get a feel for the exam format All answers are accompanied by an explanation allowing you to fully understand the reasoning behind them Features 500 practice questions including image based questions and case studies aligned with the official AMT MLS exam guidelines Answers and explanations Information about the AMT MLS exam An index for easy reference

SAMPLE QUESTIONS To give you a preview here are six sample questions from the book

1 **GENERAL LABORATORY** When drawing a patient s blood which of these steps should come first a Apply the tourniquet b Clean the site c Identify the patient d Insert the needle

2 **CHEMISTRY** Insulin stimulates the conversion of glucose to a galactose b glucagon c glycogen d sucrose

3 **HEMATOLOGY** What does leukopoiesis mean a High levels of white blood cells b Low levels of platelets c The breakdown of platelets d The synthesis of white blood cells

4 **COAGULATION AND HEMOSTASIS** Which of these vacutainer tubes contains an anticoagulant that works by binding calcium a Green b Light blue c PST d Red

5 **IMMUNOLOGY AND SEROLOGY** T cell maturation occurs in which part of the body a Bone marrow b Lymph node c Spleen d Thymus

6 **IMMUNOHEMATOLOGY** Reed Sternberg cells are found in a acute lymphoblastic leukemia b

chronic lymphocytic leukemia c Hodgkin lymphoma d non Hodgkin lymphoma Answers 1 c Identify the patient Before drawing the patient's blood first make sure you have the right patient 2 c Glycogen Insulin is a hormone that stimulates the conversion of glucose to glycogen for storage 3 d The synthesis of white blood cells Leukopoiesis is the creation of new white blood cells The word comes from leuko meaning white and poiesis meaning synthesis 4 b Light blue Light blue top tubes contain sodium citrate an anticoagulant that works by binding calcium 5 d Thymus The thymus is a gland in the chest next to the heart It is the main site for the maturation of immature T cells 6 c Hodgkin lymphoma Reed Sternberg cells also called Hodgkin cells are abnormally large lymphocytes They are characteristic of Hodgkin lymphoma

Oxford Textbook of Palliative Nursing Betty R. Ferrell, Nessa Coyle, Judith A. Paice, 2015 The Oxford Textbook of Palliative Nursing is the definitive text on nursing care of the seriously ill and dying It is a comprehensive work addressing all aspects of palliative care including physical psychological social and spiritual needs The text is written by leaders in the field and includes an impressive section on international palliative care Each chapter includes case examples and a strong evidence base to support the highest quality of care The book is rich with tables and figures offering practical resources for clinical practice across all settings of care and encompassing all ages from pediatrics to geriatrics

Peterson's Guide to Graduate and Professional Programs, an Overview, 1995

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