

BD Vacutainer® Tubes with BD Hemogard™ Closure	BD Vacutainer® Tubes with Conventional Stopper	Additive	Inversions at Blood Collection*	Laboratory Use	Your Lab's Draw Volume/Remarks
		• Clot activator and gel for serum separation	5	For serum determinations in chemistry. May be used for routine blood donor screening and diagnostic testing of serum for infectious disease. ** Tube inversions ensure mixing of clot activator with blood. Blood clotting time: 30 minutes.	
		• Lithium heparin and gel for plasma separation	8	BD Vacutainer® PST™ tube for plasma determinations in chemistry. Tube inversions prevent clotting.	
		• Heparin (glass) • Clot activator (plastic)	0 5	For serum determinations in chemistry. May be used for routine blood donor screening and diagnostic testing of serum for infectious disease. ** Tube inversions ensure mixing of clot activator with blood. Blood clotting time: 60 minutes.	
		• Thrombin	8	For stat serum determinations in chemistry. Tube inversions ensure complete clotting, which usually occurs in less than 5 minutes.	
		• Clot activator (plastic serum) • K <sub>2</sub> EDTA (plastic)	8 8 0 5 8	For trace-element, toxicology, and nutritional-chemistry determinations. Special stopper formulation provides low levels of trace elements (see package insert).	
		• Sodium heparin • Lithium heparin	8 8	For plasma determinations in chemistry. Tube inversions prevent clotting.	
		• Potassium oxalate/sodium fluoride • Sodium fluoride/EDTA • Sodium fluoride (serum tube)	8 8 8	For glucose determinations. Oxalate and EDTA anticoagulants will give plasma samples. Sodium fluoride is the antipolyolytic agent. Tube inversions ensure proper mixing of additive and blood.	
		• K <sub>2</sub> EDTA (plastic)	8 8	For lead determinations. This tube is certified to contain less than .01 µg/mL (ppm) lead. Tube inversions prevent clotting.	
		• Sodium polyanethanol sulfonate (SPS) • Acid citrate dextrose additives (ACD): Solution A - 22.0 g/L trisodium citrate, 8.0 g/L citric acid, 24.5 g/L dextrose Solution B - 13.2 g/L trisodium citrate, 4.8 g/L citric acid, 14.7 g/L dextrose	8 8 8	SPS for blood culture specimen collections in microbiology. Tube inversions prevent clotting. ACD for use in blood bank studies, HLA phenotyping, and DNA and paternity testing.	
		• Liquid K <sub>2</sub> EDTA (glass) • Spray-coated K <sub>2</sub> EDTA (plastic)	8 8	K <sub>2</sub> EDTA and K <sub>2</sub> EDTA for whole blood hematology determinations. K <sub>2</sub> EDTA may be used for routine immunohematology testing and blood donor screening. *** Tube inversions prevent clotting.	
		• K <sub>2</sub> EDTA with gel	8	For use in molecular diagnostic test methods (such as but not limited to polymerase chain reaction (PCR) and/or branched DNA (bDNA) amplification techniques).	
		• Spray-coated K <sub>2</sub> EDTA	8	For whole blood hematology determinations. May be used for routine immunohematology testing and blood donor screening. *** Designed with special cross-match label for patient information required by the AABB. Tube inversions prevent clotting.	
		• Buffered sodium citrate (0.105 M (~3.2%) glass) • 0.105 M (~3.2%) (plastic) • Citrate, theophylline, adenosine, dipyridamole (CITAD)	3-4 3-4	For coagulation determinations. CITAD for selected platelet function assays and routine coagulation determination. Tube inversions prevent clotting.	
		• None (plastic)	0	For use as a discard tube or secondary specimen collection tube.	
<b>Partial-draw Tubes</b> 0 mL and 3 mL, 13 x 75 mm					
<b>Small-volume Pediatric Tubes</b> 0 mL, 10.25 x 47 mm, 3 mL, 15.25 x 64 mm					
		• None	0	For serum determinations in chemistry. May be used for routine blood donor screening, immunohematology testing, *** and diagnostic testing of serum for infectious disease. ** Tube inversions ensure mixing of clot activator with blood. Blood clotting time: 60 minutes.	
		• Sodium heparin • Lithium heparin	8 8	For plasma determinations in chemistry. Tube inversions prevent clotting.	
		• Spray-coated K <sub>2</sub> EDTA (plastic)	8 8	For whole blood hematology determinations. May be used for routine immunohematology testing and blood donor screening. *** Tube inversions prevent clotting.	
		• 0.105 M sodium citrate (~3.2%)	3-4	For coagulation determinations. Tube inversions prevent clotting.	

# Vacutainer Tube Guide

**Mary Louise Turgeon**



## **Vacutainer Tube Guide:**

*Hematology* Bernadette F. Rodak, George A. Fritsma, Kathryn Doig, 2007-01-01 Textbook explores key aspects of hematology from normal hematopoiesis through diseases of erythroid myeloid lymphoid and megakaryocytic origin Includes a revised section on hemostasis and thrombosis Case studies and chapter summaries are included Essentials Of Medical Laboratory Practice Constance L Lieseke, Elizabeth A Zeibig, 2012-01-31 Inside you ll find a wealth of information on important laboratory terminology and the procedures you ll need to perform to become an effective member of a physician s office team Coverage of the advanced procedures performed outside of the physician s office explains what happens to the samples you send out There s also information on CLIA and other government regulations and how they affect each procedure

**Kirk & Bistner's Handbook of Veterinary Procedures and Emergency Treatment** Richard B. Ford, Elisa Mazzaferro, 2011-08-17 Provide expert care for cats and dogs Kirk and Bistner s Handbook of Veterinary Procedures and Emergency Treatment 9th Edition covers not only the management of emergency conditions but also strategies for dealing with hundreds of routine diagnostic and treatment challenges in small animals Its user friendly format provides instant access to vital information making it an ideal resource in emergency situations and it is conveniently organized by both body systems and presenting signs to help you easily reach a diagnosis and determine a treatment plan for all clinical situations Written by veterinary experts Richard Ford and Elisa Mazzaferro Kirk and Bistner s Handbook of Veterinary Procedures and Emergency Treatment provides current guidelines for small animal emergency care and the diagnostic procedures most commonly performed in a busy team oriented practice Step by step instructions and illustrations are provided for all major emergency and non emergency clinical procedures A logical easy to use format lists all emergency conditions in alphabetical order and includes quick reference boxes calling out key information such as clinical tips and cautions Clear concise guidelines help you evaluate clinical signs and laboratory test data Clinical algorithms make it easier to identify and treat abnormalities Guidelines for assessment and treatment include practical advice and solutions how to examine the small animal patient using a body systems and problem list approach and a review of basic diagnostic procedures used in daily practice Coverage of toxicological emergencies describes how to manage exposures and poisonings A quick reference guide to the management of the emergency patient is conveniently located on the inside cover A comprehensive drug formulary makes lookup easy and includes proprietary names actions use of each drug formulations recommended dosages and special precautions with emergency medications highlighted for fast reference This all in one reference includes practical coverage of emergency procedures physical assessment in sickness and health routine and advanced testing procedures diagnostic tests sampling preparation procedures and interpretation Quick Reference boxes include potential causes of each clinical abnormality and associated signs step by step diagnostic plans and clinical algorithms The latest vaccination guidelines include protocols for dogs and cats at low medium and high risk of exposure to infectious diseases Updated coverage keeps

you current with the latest on pain assessment prevention and treatment      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      **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      A Guide to Specimen Management in Clinical Microbiology J. Michael Miller, Shelley A. Miller, 2020-07-10 A Guide to Specimen Management in Clinical Microbiology is the classic reference that addresses and meets the needs of everyone in the total testing process circle It provides complete concise information on the unique needs of the microbiology laboratory regarding specimen management and is the only single source for the specimen management policies required for laboratory results that are accurate significant and clinically relevant Medical nursing and medical technology students practicing physicians private practice offices clinical laboratories and public health laboratories can turn to this valuable resource to answer their questions on issues such as the correct procedures of specimen selection

collection transport and storage in the clinical microbiology laboratory the rationale associated with the specimen requirements and proper communication between the lab and its clients If you are looking for online access to the latest clinical microbiology content please visit [www.wiley.com/learn/clinmicronow](http://www.wiley.com/learn/clinmicronow)      **Phlebotomy Essentials** Ruth E. McCall, 2023-08-11 Phlebotomy Essentials Eighth Edition provides accurate up to date and practical information and instruction in phlebotomy procedures and techniques along with a comprehensive background in phlebotomy theory and principles It is appropriate for use as an instructional text or as a reference for those who wish to update skills or study for national certification This updated edition details how today's phlebotomists work in an approach optimized for how today's students learn Combined with an optional Workbook Exam Review book and updated digital courseware the latest edition of Phlebotomy Essentials represents a cornerstone of preparation for a successful career in phlebotomy Complete program integration of textbook workbook and exam review products working together as a complete learning system for optimal student outcomes Phlebotomy Essentials Eighth Edition with Navigate Premier Access Student Workbook for Phlebotomy Essentials Eighth Edition Phlebotomy Exam Review Eighth Edition with Navigate Premier Access Phlebotomy Essentials Updated to current CLSI guidelines Test Prep alerts throughout the textbook share current statistics on which questions students typically get wrong and why Map of NAACLS Standards where each competency is covered Certification Test Plan Alignment Map including American Medical Technologists AMT Registered Phlebotomy Technician American Society for Clinical Pathology ASCP Phlebotomy Technician National Healthcareer Association NHA Certified Phlebotomy Technician National Center for Competency Testing NCCT National Certified Phlebotomy Technician 2024 516 pages

**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 Lippincott Acute Care Skills for Advanced Nursing Assistants Pamela Carter,2019-02-11 This combined text and workbook builds on the basic concepts and skills that the nursing assistant has already mastered The tasks nursing assistants in advanced settings are expected to perform vary greatly in health care settings across the nation Even if nursing assistants are not allowed to perform tasks independently they are often expected to understand the care provided and assist other members of the health care team The spirit of lifelong learning is at the heart of this text which has been written in a way to inspire nursing assistants to set goals for career advancement and reach them **Phlebotomy Essentials** Ruth McCall,2019-08-29 Ensure a confident transition from classroom to clinic with this proven approachable phlebotomy resource Phlebotomy Essentials Seventh Edition easily instills the core knowledge and clinical understanding behind safe effective patient communication and interaction Enhanced with new images a more efficient design and new contributions from leading subject matter experts this updated edition details how today s phlebotomists work in an approach optimized for how today s students learn Combined with an optional Workbook Exam Review book and updated PrepU adaptive quizzing software the latest edition of Phlebotomy Essentials represents a cornerstone of preparation for a successful career in phlebotomy **Foundations of Nursing - E-Book** Barbara Lauritsen Christensen,Elaine Oden Kockrow,2013-12-27 Part of the popular LPN Threads series this comprehensive text prepares you for safe and effective nursing practice in today s fast paced healthcare environment Covering maternal and neonatal pediatric geriatric mental health and community nursing Foundations of Nursing 6th Edition includes all of the essential LPN LVN content you need Companion CD includes animations and audio clips depicting physiologic processes physical assessment video clips an English Spanish glossary with definitions and audio pronunciations an anatomy coloring book and a fluid and electrolytes tutorial The consistent logical framework of the nursing process connects specific disorders to patient care A mathematics review chapter provides a complete review of basic arithmetic skills and practice in drug dosage calculation to ensure safe medication administration Safety Alert boxes help you implement The Joint Commission s safety guidelines in all settings with considerations for special populations Nursing Diagnosis boxes screened and highlighted in the text include nursing diagnoses for specific disorders paired with the appropriate nursing interventions More than 100 skills in a step by step format with full color illustrations present clearly defined nursing actions with rationales for the skills and techniques you ll use in practice Medication tables are meticulously detailed and provide quick access to action dosage precautions and nursing considerations for commonly used drugs Nursing Care Plans presented in a case study format emphasize patient goals and outcomes and end with Critical Thinking Questions to develop your clinical decision making

skills Coordinated Care boxes emphasize parameters for prioritizing tasks as well as assigning tasks to and supervising unlicensed assistive personnel Patient Teaching boxes and Family Teaching boxes include post hospital discharge guidelines and disease prevention instructions with a strong focus on three way communication among the nurse patient and family members Life Span Considerations for Older Adults boxes provide age specific information for the care of the aging population which is often the primary focus of the LPN LVN nurse Home Care Considerations boxes discuss the issues facing patients and caregivers in the home health care setting Health Promotion boxes provide key information on staying healthy and preventing disease with tips on wellness from Healthy People 2010 Cultural Considerations boxes discuss how to address the health needs of a culturally diverse patient population when planning care Enhanced focus on the NCLEX Examination offers end of chapter Get Ready for the NCLEX Examination sections with key points for self guided study and remediation and an extensive set of review questions for thorough self assessment Additional review questions on Evolve provide instant feedback with correct answer and rationale for even more test taking practice Evidence Based Practice boxes summarize the latest research findings and highlight how they apply to LPN LVN practice Updated vibrant full color design highlights key information and enhances your understanding of important concepts

**The Phlebotomy Textbook** Susan King Strasinger, Marjorie Schaub Di Lorenzo, 2019-02-25 Rely on this comprehensive resource to master the techniques you need to safely obtain quality specimens You ll understand all the hows and whys that lead to success in this rapidly changing field Inside you ll find the up to date coverage of routine procedures and their complications as well specialized procedures quality and infection control state of the art equipment medical terminology ethical and legal issues body systems and related diagnostic laboratory tests

Potter & Perry's Pocket Guide to Nursing Skills & Procedures - E-Book Patricia A. Potter, Anne G. Perry, 2023-06-09 NEW New skills are added and all skills throughout the book are updated to match the latest evidence based practice guidelines and standards ensuring safe effective performance of skills

**Handbook of Phlebotomy and Patient Service Techniques** Garland E. Pendergraph, Cynthia Barfield Pendergraph, 1998 This concise book is designed to train students in phlebotomy The updated text incorporates information which helps the phlebotomist become a patient service technician moving them away from the laboratory setting and into bedside health care By providing information on multi skill training the text helps prepare students for future responsibilities

**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 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: Principles, Applications, and Molecular Concepts** Mary Louise Turgeon, 2025-04-15 Clinical Hematology Principles Applications and Molecular Concepts Seventh Edition is designed to help students develop the professional entry level competencies they need for certification and career success The Seventh Edition strengthens the pedagogy that set the quality benchmark for hematology and includes the current competency based content needed by MLT and MLS students Each new print copy includes Navigate Advantage Access that unlocks an interactive eBook Appendices Videos Case Studies and Flashcards

**Foundations and Adult Health Nursing - E-Book** Barbara Lauritsen Christensen, Elaine Oden Kockrow, 2013-12-27 Part of the popular LPN Threads series this comprehensive text includes in depth discussions of fundamental concepts and skills plus medical surgical content to help you provide safe and effective care in the fast paced healthcare environment Easy to read content an enhanced focus on preparing for the NCLEX Examination and a wealth of tips and study tools make Foundations and Adult Health Nursing 6th Edition your must have text

*Interpretation of Equine Laboratory Diagnostics* Nicola Pusterla, Jill Higgins, 2017-12-18 Interpretation of Equine Laboratory Diagnostics offers a comprehensive approach to equine laboratory diagnostics including hematology clinical chemistry serology body fluid analysis microbiology clinical parasitology endocrinology immunology and molecular diagnostics Offers a practical resource for the accurate interpretation of laboratory results with examples showing real world applications Covers hematology clinical chemistry serology body fluid analysis microbiology clinical parasitology endocrinology immunology and molecular diagnostics Introduces the underlying principles of laboratory diagnostics Provides clinically oriented guidance on performing and interpreting laboratory tests Presents a complete reference to established and new diagnostic procedures

**Phlebotomy Handbook** Diana Garza, Kathleen Becan-McBride, 2002 This book is the most accurate and current source of blood and specimen collection information for today s health care professionals Designed to provide health care professionals with clinical technical and communication skills and knowledge Features sections devoted



to safety equipment and collection special procedures and point of care testing and quality and legal issues and the latest information about the standards related to the Needlestick Prevention Act Includes additional information about the risks and hazards to health care workers who collect blood specimens Extensive discussion of age related competencies trans cultural communication and nonverbal and verbal communication strategies Clinical alerts provided in each chapter warn readers about potentially dangerous situations in a procedure process or patient condition     **Linne & Ringsrud's Clinical Laboratory Science - E-Book** Mary Louise Turgeon,2015-02-10 Using a discipline by discipline approach Linne perforated pages make it easy for students to remove for use in the lab and for assignment of review questions as homework NEW Instrumentation updates show new technology being used in the lab NEW Additional key terms in each chapter cover need to know terminology NEW Additional tables and figures in each chapter clarify clinical lab science concepts

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## **Table of Contents Vacutainer Tube Guide**

1. Understanding the eBook Vacutainer Tube Guide
  - The Rise of Digital Reading Vacutainer Tube Guide
  - Advantages of eBooks Over Traditional Books
2. Identifying Vacutainer Tube 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 Vacutainer Tube Guide
  - User-Friendly Interface
4. Exploring eBook Recommendations from Vacutainer Tube Guide
  - Personalized Recommendations
  - Vacutainer Tube Guide User Reviews and Ratings
  - Vacutainer Tube Guide and Bestseller Lists
5. Accessing Vacutainer Tube Guide Free and Paid eBooks

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