

BD Vacutainer® Venous Blood Collection Tube Guide



For the full array of BD Vacutainer® Blood Collection Tubes, visit www.bd.com. Many are available in a variety of sizes and draw volumes. Refer to our website for full descriptions.

BD Vacutainer® Tubes with BD Hemogard™ Closure	BD Vacutainer® Tubes with Conventional Stopper	Additive	Inversions of Blood Collection*	Laboratory use	Laboratory notes
Red	Red	• Silicone-coated (glass) • Clot activator - Silicone-coated (plastic)	2 5	For chemistry determinations in serum. 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.	
Gold	Red/Gray	• Clot activator and gel for serum separation	5	For chemistry determinations in serum. 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.	
Orange		• Thrombin-based clot activator with gel for serum separation	5 to 6	For clot chemistry determinations in serum. Tube inversions ensure mixing of clot activator with blood. Blood clotting time: 5 minutes.	
Light Green		• Lithium heparin and gel for plasma separation	8	For chemistry determinations in plasma. Tube inversions ensure mixing of anticoagulant (heparin) with blood to prevent clotting.	
Green	Green	• Sodium heparin • Lithium heparin	8 8	For chemistry determinations in plasma. Tube inversions ensure mixing of anticoagulant (heparin) with blood to prevent clotting.	
Lavender	Translucent Lavender	• Liquid K ₂ EDTA (glass) • Spray-coated K ₂ EDTA (plastic)	8 8	K ₂ EDTA and K ₂ EDTA for whole blood hematology determinations. K ₂ EDTA may be used for routine immunohematology testing.** Tube inversions ensure mixing of anticoagulant (EDTA) with blood to prevent clotting.	
Pink		• Spray-coated K ₂ EDTA (plastic)	8	For whole blood hematology determinations. May be used for routine immunohematology testing.** Designed with special cross-match label for patient information required by the AABB. Tube inversions ensure mixing of anticoagulant (EDTA) with blood to prevent clotting.	
White		• K ₂ EDTA and gel for plasma separation	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.) Tube inversions ensure mixing of anticoagulant (EDTA) with blood to prevent clotting.	
Light Blue	Clear	• Buffered sodium citrate 0.109 M (3.2%) plastic	3-4	For coagulation determinations. Tube inversions ensure mixing of anticoagulant (citrate) to prevent clotting.	
Gray	Gray	• Potassium oxalate/ sodium fluoride • Sodium fluoride/Na ₂ EDTA • Sodium fluoride (serum tube)	8 8 8	For glucose determinations. Oxalate and EDTA are anticoagulants and NaF is an antglycolytic agent. Tube inversions ensure proper mixing of additive with blood.	
Royal Blue		• Clot activator (plastic) • K ₂ EDTA (plastic)	8 8	For trace element, toxicology, and nutritional chemistry determinations in serum or plasma. Special stopper formulation provides low levels of trace elements (see package insert). Tube inversions ensure proper mixing of additive with blood.	
	Yellow	• Sodium polyanethane sulfonate (SPS) • Acid citrate dextrose additives (ACD): – Solution A: 22.0 g/L sodium citrate, 8.0 g/L citric acid, 24.5 g/L dextrose – Solution B: 13.2 g/L sodium citrate, 4.8 g/L citric acid, 14.7 g/L dextrose	8 8 8 8	SPS for blood culture specimen collections in microbiology. ACD for use in blood bank studies, and paternity testing. Tube inversions ensure mixing of anticoagulant with blood to prevent clotting.	
Clear	Red/Light Gray	• No additive (plastic)	0	For use as a discard tube or secondary specimen tube.	

BD Vacutainer® Tubes with a translucent cap are designed to draw less blood as indicated on the tube label. Small-volume, partial-draw tubes fill more slowly than full-draw tubes due to a "breast vacuum".

For additional information refer to the IFU at www.bd.com.

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* Invert gently, do not shake.
** The performance characteristics of these tubes have not been established for infectious disease testing in general therefore, users must validate the use of these tubes for their specific assay-instrument-reagent system combinations and specimen storage conditions.
*** The performance characteristics of these tubes have not been established for immunohematology testing in general therefore, users must validate the use of these tubes for their specific assay-instrument-reagent system combinations and specimen storage conditions.

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Vacutainer Collection Guide:

Veterinary Technician and Nurse's Daily Reference Guide Mandy Fults, Kenichiro Yagi, 2022-04-26 The revised and expanded new edition of this classic reference to daily skills used by veterinary technicians *Veterinary Technician and Nurse's Daily Reference Guide Canine and Feline* provides rapid access to the information veterinary technicians need in clinical practice With an easy to use tabular format the book covers diagnostic and patient care skills diseases and conditions preventive care anatomy anesthesia and all other major areas of veterinary technician education and training Chapters written by experienced veterinary specialists integrate charts tables and concise explanatory text to enable quick and efficient retrieval of information Focusing on practical skills and knowledge the fourth edition features extensively revised material incorporating the latest developments evidence based guidelines and best practices in veterinary medicine Brand new chapters describe licensure and certifications in veterinary technology and discuss nursing theory and science and its relation to veterinary nursing Expanded and updated coverage includes novel therapeutics in dermatology vaccination standards pain assessment and management stress free handling and nursing care strategies RECOVER CPR guidelines and more Equally useful in the classroom and in the clinic this popular quick reference guide Provides new and updated content including coverage of advancements in diagnostic capabilities and of pharmacologic agents used in treatment and management of disease states Contains hundreds of clear illustrations and high quality photographs Includes a comprehensive table of contents in each chapter Features a companion website with forms and worksheets self review questions vocabulary flashcards links to online resources and PowerPoint slides *Veterinary Technician and Nurse's Daily Reference Guide Canine and Feline Fourth Edition* remains an invaluable resource for both student and practicing veterinary technicians and nurses of all skill and experience levels

Guide to the Preparation, Use and Quality Assurance of Blood Components Council of Europe, 2006-01-01 This is the 12 edition of this compendium of measures designed to ensure safety efficacy and quality of blood components and this guide forms the basis for many national guidelines in Europe and around the world It describes the different blood components and gives information on their clinical indications and possible side effects in accordance with the requirements under Article 29 of EU Directive 2002/98/EC *Interpharm Master*

Keyword Guide Interpharm, 2003-05-27 This guide contains over 20 000 entries completely cross indexed and quoted in context to provide readers with instant access to every noun phrase and concept used by the Drug Enforcement Administration and U S Food and Drug Administration

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

Clinical Laboratory Guide: A Comprehensive Encyclopedia of Blood Cells Pasquale De Marco, 2025-07-15 Embark on a comprehensive journey into the realm of hematology with this all encompassing guide

meticulously crafted to provide a profound understanding of blood its components and the disorders that affect it Delve into the intricacies of blood cell production maturation and function gaining insights into the mechanisms that maintain blood health Explore the complexities of blood typing and transfusions unraveling the critical role of blood compatibility in life saving procedures Witness the meticulous techniques employed in clinical laboratories to analyze blood samples deciphering the secrets hidden within each drop Discover the art of blood collection and handling the preparation and staining of blood smears and the sophisticated automated analyzers that provide invaluable data for diagnosis and monitoring Appreciate the expertise of laboratory professionals who tirelessly work behind the scenes to ensure accurate and timely results Encounter the diverse spectrum of hematological disorders ranging from anemias and leukemias to lymphomas and myeloproliferative neoplasms Delve into the underlying causes clinical manifestations and treatment options for these conditions gaining a deeper understanding of the challenges faced by patients and the strategies employed to combat these diseases Engage with real life case studies that bring these disorders to life offering a glimpse into the experiences of individuals affected by hematological conditions Explore the cutting edge advancements in hematology research and innovation where groundbreaking discoveries are transforming the field Witness the power of molecular diagnostics in identifying genetic mutations associated with blood disorders the promise of gene therapy in revolutionizing treatment approaches and the potential of nanotechnology in developing novel diagnostic and therapeutic tools These innovations paint a picture of a future where personalized medicine and precision therapies hold immense promise for improving patient outcomes Written in an engaging and accessible style this comprehensive guide is an indispensable resource for students healthcare professionals and anyone seeking a deeper understanding of hematology Its thorough coverage real life case studies and exploration of cutting edge research make it an invaluable tool for expanding knowledge and enhancing clinical practice If you like this book write a review

[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

[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

Practical Guide to Diagnostic Parasitology Lynne Shore Garcia,2020-07-16 An essential training aid and reference guide for laboratorians Includes easy to follow collection and ordering guidelines and diagnostic techniques Offers extensive discussion and a table to assist physicians with ordering the most appropriate diagnostic tests Provides extensive information on method selection clinical relevance and test menus Features diagnostic algorithms

summary tables and identification keys Presents comprehensive organism information on facing pages Includes how to tips based on 30 years of the author s benchwork experience Serves as a resource for microbiologists physicians medical technologists public health personnel teachers and students *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 **Blood Banking for Beginners: A Comprehensive**

Guide to Blood Banking Pasquale De Marco,2025-07-18 In a world where every second counts blood banking and transfusion medicine stand as beacons of hope providing a lifeline to those in critical need This comprehensive guide takes you on a journey through the intricate world of blood banking unraveling the complexities of this essential medical field From the basics of blood biology and blood group systems to the intricate processes of blood collection processing and storage this book provides a thorough understanding of the foundation of blood banking Delve into the world of compatibility testing exploring the intricacies of ensuring safe and effective blood transfusions Explore the diverse applications of blood component therapy where each component plays a unique role in treating a wide range of medical conditions Discover the intricacies of blood banking and transfusion medicine in specialized patient populations such as neonates children pregnant women and patients with cancer or sickle cell disease Uncover the regulatory and ethical considerations that shape the field of blood banking ensuring the safety and integrity of blood products Stay abreast of the latest advancements and research in transfusion medicine as scientists and clinicians strive to improve transfusion practices and patient outcomes Whether you are a student seeking a comprehensive introduction to blood banking a healthcare professional looking to expand your knowledge or simply someone fascinated by the world of medicine this book offers an immersive and engaging exploration of this vital field Join us on this journey as we delve into the life saving world of blood banking and transfusion medicine where every drop of blood holds the power to make a profound difference If you like this book write a review **Clinical**

Procedures for Medical Assistants - E-Book Kathy Bonewit-West,2022-09-03 Master the foundational concepts and skills necessary to become a successful clinical medical assistant Written using clear and accessible language Clinical Procedures for Medical Assistants 11th Edition guides you through essential medical assisting clinical procedures such as taking vital signs collecting processing and testing laboratory specimens preparing patients for examinations and procedures administering medications and assisting with office surgeries This edition is thoroughly updated throughout to align with

2022 medical assisting competencies and includes a new art program plus updated coverage of the medical record nutritional guidelines OSHA standards for infection control and prevention emergency preparedness and the latest medical assisting clinical guidelines More than 90 procedures help you learn key medical assisting skills with step by step instructions and clear illustrations Learning features throughout focus on case based critical thinking patient education legal issues practice tips and documentation exercises and a full complement of online resources provides practice for classroom and board exams EHR documentation exercises video procedures with evaluation questions and a variety of interactive exercises to reinforce comprehension and content mastery This thorough text ensures you have the clinical skills needed to succeed in today's fast paced medical office Consistent meticulous coverage ensures alignment of all content throughout the text on the Evolve companion website and in the study guide More than 90 illustrated procedures offer step by step guidance with many featuring accompanying online videos Learning features focus on case based critical thinking patient education legal issues practice tips and documentation examples Student resources on Evolve include video procedures with evaluation quizzes case based quizzes SimChart for the Medical Office documentation exercises sample certification exams practicum activities and interactive activities NEW 2022 medical assisting competencies throughout represent the latest educational standards approved by CAAHEP and ABHES NEW Updated content and skills address electronic prescribing of medications computer generated laboratory results and reports nutritional guidelines OSHA standards for infection control and prevention emergency preparedness and the latest clinical guidelines NEW Art program features more than 200 new illustrations for procedures equipment and supplies used in the modern medical office

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

Clinical Pathology A Practical Manual Sabitri Sanyal, 2012-05-15

This book provides in depth knowledge of clinical pathology in a question and answer format and discusses procedures and methods of laboratory investigations along with interpretation and analysis of diagnostic data Also includes new chapter on Quality Control procedures and principles Investigations of Anaemia Investigations of Urinary tract infection and Investigations of Reproductive tract infection

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 **Venepuncture & Cannulation: A practical guide** Nicola Brooks,2017-02-07

Venepuncture and Cannulation A Practical Guide offers an easy to read comprehensive account of the practical procedures of venepuncture and intravenous cannulation It provides the underlying theory and underpinning knowledge required as well as a step by step approach that will enable healthcare practitioners to carry out these procedures safely efficiently and with confidence This book is intended as a supplementary resource for those involved in practising or teaching these procedures for healthcare practitioners wishing to update their knowledge and for novice practitioners learning these skills for the first time Each chapter contains intended learning outcomes and points for practice Some chapters also include helpful illustrations and practical activities and the book ends with two self assessment checklists This second edition has been thoroughly updated and includes a very useful Test yourself chapter at the end of the book Readers can now test their knowledge by answering the relevant questions They can also identify any gaps in their current level of knowledge or skill as well as further learning opportunities that may be required to support their practice The Equine Hospital Manual Kevin

Corley,Jennifer Stephen,2009-03-16 The must have resource drawing together all aspects of hospital care of the horse and specialist techniques in equine medicine Written by a team of over 30 international experts working at the cutting edge of equine medicine and surgery The emphasis is on practical easy to access information with a sound basis in evidence based medicine and full references for further enquiry The Equine Hospital Manual covers the range of procedures used on hospitalized adult horses and foals from the simple to the advanced The book is liberally illustrated with photographs and line drawings Covering Basic skills including physical examination blood collection and bandaging Advanced skills including mechanical ventilation lung biopsy and cardiac output measurement Designing and setting up an equine hospital Biosecurity Therapeutic drugs used in horses and their doses Nutrition for hospital patients including TPN and PPN Fluid therapy choices amounts and pitfalls Anaesthesia equipment techniques and post operative care including analgesia Reflecting the substantial trend in recent years to treat horses in a hospital rather than in the field this book provides all you need to know whether you have facilities to treat one or one hundred horses *A Toxicologist's Guide to Clinical Pathology in Animals*

John E. Whalan,2015-03-25 This guide provides an easy to use desk reference for diagnostic information on commonly used

hematology clinical chemistry and urinalysis parameters Additional reference materials are provided as an aid in evaluating clinical pathology data For many toxicologists the evaluation of hematology clinical chemistry and urinalysis data can be the most challenging aspect of animal toxicity studies In a typical toxicity study dozens of parameters are measured several times over the course of the study There may be hundreds of data points each of which needs to be considered A Toxicologist's Guide to Clinical Pathology in Animals will serve as an essential primer for toxicologists in training and in industry as well as for researchers and professionals in a veterinary practice or a laboratory

The Royal Marsden Manual of Clinical Nursing Procedures, Student Edition Sara Lister, Justine Hofland, Hayley Grafton, Catherine Wilson, 2021-06-01 The student edition of The Royal Marsden Manual of Clinical Nursing Procedures has been the definitive market leading textbook of clinical nursing skills for fifteen years This internationally best selling title sets the gold standard for nursing care providing the procedures rationale and guidance required by pre registration students to deliver clinically effective patient focused care with expertise and confidence With over two hundred detailed procedures which reflect the skills required to meet The Standards of Proficiency for Registered Nurses NMC 2019 this comprehensive manual presents the evidence and underlying theory alongside full colour illustrations and a range of learning activities designed to support student nurses in clinical practice Loved and trusted by millions The Royal Marsden Manual of Clinical Nursing Procedures Student Edition continues to be a truly indispensable textbook for students and includes coverage of patient assessment and discharge planning communication infection prevention and control perioperative care wound management nutrition diagnostic testing medicines management and much more Learning features in this revised tenth edition include Learning outcomes summarise the focus of the information in each chapter Learning in practice asks you to consider issues within your practice environment Case studies provide learning around a particular patient scenario Clinical applications ask you to consider how you would apply your knowledge to a clinical situation Stretch activities challenge you with more nuanced advanced issues to reflect upon Many of the features in the book are relevant to trainee nursing associates especially when used in conjunction with supervision from academic and clinical teachers A companion website to this title is available at www.royalmarsdenmanual.com/student10e

Visual Guide to Clinical Parasitology: A Color Atlas Dr Kuldeep Singh, Dr Rajdeep Paul, Dr Maibam Debala Chanu, Dr. Saurabh Jayant, Dr. Pratibha Singh, Dr. Namrata Naithani, Dr. Satakshi Manwani, Dr. Rishabh Rajput, Mr. Veerendra Sen, Dr. Kanchan Bala Dogra, Dr. Harsha Gupta, Dr. Satyaram Satapathy, 2024-09-24 Visual Guide to Clinical Parasitology A Color Atlas is an essential resource designed to provide clear and detailed visual representations of various parasitic infections encountered in clinical practice The book serves as a color atlas making it highly beneficial for students clinicians and laboratory personnel who are involved in diagnosing parasitic diseases The book typically covers a broad range of parasitic organisms including protozoa helminths and ectoparasites offering detailed images of parasites in various stages of their life cycle Each organism is paired with clinical and laboratory diagnostic features

emphasizing the identification of parasites through microscopic examination staining techniques and histological methods One of the main strengths of this book lies in its comprehensive and practical approach High resolution images guide readers through the morphological features of parasites helping them distinguish between similar species In addition to visual aids the book often includes brief clinical summaries diagnostic hints and notes on epidemiology making it not only a visual guide but also a concise reference for clinical decision making Furthermore the color atlas is organized in a user friendly format typically arranged by the type of parasite such as intestinal blood or tissue parasites and includes case studies or clinical examples that illustrate real world applications Overall Visual Guide to Clinical Parasitology A Color Atlas is a valuable tool for anyone engaged in parasitology diagnostics or research bridging the gap between theoretical knowledge and practical hands on experience in clinical settings

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

Decoding **Vacutainer Collection Guide**: Revealing the Captivating Potential of Verbal Expression

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