

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)	0 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: 30 minutes.	
Orange		• Thrombin-based clot activator with gel for serum separation	5 to 8	For stat 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.	
Translucent Green					
Lavender	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.	
Translucent Lavender					
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 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 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 divided 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 lower 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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Lippincott Williams & Wilkins

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the Lippincott Williams & Wilkins text bar.

Vacutainer Collection 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 **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 **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 **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 **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 **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

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

LPN Expert Guides Lippincott Williams & Wilkins,2007 This quick reference pocket guide focuses on difficult skills that LPNs LVNs must perform accurately and safely to ensure optimal patient outcomes Coverage includes data collection physical examination and patient communication medication administration I V therapy wound care specimen collection and skills for specific body systems Information is presented in a highly organized format with abundant illustrations Recurring icons include Equipment Challenge suggestions for troubleshooting equipment Red Flag dangers complications and contraindications Best Practice evidence based guidelines and Life Stages age related variations

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

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 **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 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 digital courseware the latest edition of Phlebotomy Essentials represents a cornerstone of preparation for a successful career in phlebotomy 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 **ICMR-NIIH Practical Guide to Laboratory**

Immunohematology Shrimati Dharmapal Shetty, 2020-02-28 Section 1 Hemoglobinopathies Red Cell Enzymopathies and Membranopathies Section 2 Hemostasis and Thrombosis Section 3 Transfusion Medicine Section 4 Transfusion Transmitted Disorders Section 5 Autoimmune Disorders Section 6 Cytogenetics Section 7 Primary Immunodeficiency Disorders

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

Davis's Comprehensive Manual of Laboratory and Diagnostic Tests With Nursing Implications Anne Van Leeuwen, Mickey Bladh, 2025-03-25 With a nursing focus and an emphasis on clinical judgment this manual provides interpretive guidance on the reasons for the studies and explains why they are important and what it means for nurses and the care they provide to their patients Tests and procedures are listed in alphabetical order by their complete name for quick reference The integrated index allows fast searches by abbreviation synonym disease disorder specimen type or test classification

Population Biobank Studies: A Practical Guide Zhengming Chen, 2020-12-09 This book describes some of the key epidemiological principles scientific approaches and quality assurance frameworks required to design and conduct biobank studies in various settings Using examples from contemporary biobanks the book addresses the design features and practical procedures needed in order to launch and manage biobank studies including consent and regulatory approval the organisation of field work management of data and biological samples follow up and verification of disease outcomes development of IT systems for data collection quality assurance and study management Over the last two decades several large biobank studies have been initiated in different populations intended to greatly enhance the development of precision medicine Contemporary biobank studies are extremely large and complex and involve several decades of follow up Such studies pose major challenges in terms of ensuring rapid recruitment obtaining high quality data minimising loss to follow up reliably classifying disease outcomes and optimising the use of the biological samples collected In this regard the key to success lies not in planning the perfect study but in planning the most appropriate reliable sustainable and future proof study given the practical constraints of available resources time and capacity The authors of this

handbook are epidemiologists clinicians software engineers and laboratory and data scientists with extensive experience in conducting large biobank studies The eight chapters can be read separately or together and provide readers with essential information on how to design implement and manage these studies The state of the art innovative and scalable approaches and methodologies presented here are intended to stimulate the development of further population based and hospital based biobank studies in diverse populations **Quick Guide to Body Fluid Testing** Darci R. Block,Deanna D.H.

Franke,2023-01-02 Quick Guide to Body Fluid Testing Second Edition comprehensively covers the latest updates in three parts devoted to preanalytic considerations such as collection labeling handling transport specimen pretreatment test ordering practices analytic validation and postanalytic considerations This revised edition includes a new section on validation requirements when replacing instruments expanded post analytical considerations to include selection of quality control materials and concentrations and expanded frequently asked questions to address questions that arise around body fluid testing This second edition aims to help laboratories make decisions about their body fluid testing menu and risk based decisions about the thoroughness of their validation study design making it a valuable resource to lab professionals This book will act as a readily available pocket reference for students academics and health care professionals working in a wide variety of contexts in the body fluid testing process Provides the single best resource for practical guidance to perform body fluid test validation Addresses the challenging issues that laboratory professionals face day to day in support of body fluid testing Covers didactic information that the audience can easily read understand and reference to explain practices and processes to validate body fluid testing **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 **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

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Table of Contents Vacutainer Collection Guide

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

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