



2

TECHNIQUE OF BLOOD COLLECTION

2.1 INTRODUCTION

Blood is collected from the vein for various hematological investigations. In order to obtain accurate and precise results in the laboratory which will help the clinician to make a correct diagnosis of the patient's disease, it is of paramount importance to collect the blood sample in a correct manner.

Each sample is sent to the laboratory accompanied by a **laboratory requisition form** filled in by the clinician. Brief clinical details and any other relevant information must be mentioned on the form.

Prior to blood sample collection it is essential to check the patient's identity and make sure that it corresponds to the name and other details mentioned on the requisition form.

Blood can be withdrawn from the vein, usually the antecubital vein on the forearm (Venous blood) or from the finger or heel (Capillary blood). **Venous blood** is preferred. It can be collected using a **syringe and needle** or a **vacuum tube**. Both these methods will be described separately.



OBJECTIVES

After reading this lesson, you will be able to:

- describe the technique of collection of venous blood using a syringe and needle and a vacuum tube
- describe the method of collection of capillary blood
- explain the various anticoagulants used in hematology laboratory and their action.

Blood Bank The Technique Therapeutic

**United States. Bureau of Naval
Personnel**



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The Blood Bank and the Technique and Therapeutics of Transfusions Robert Anthony Kilduffe, Michael Ellis DeBakey, 1942 *The Logistics of Blood Transfusion Therapy* National Institutes of Health (U.S.), 1978 *Plumer's Principles and Practice of Intravenous Therapy* Ada Lawrence Plumer, 2007 Disc contains drug monographs on more than 100 intravenous agents in a printable format for patient teaching and 11 appendices with information on continuing education governmental regulations and other subjects relevant to infusion therapy Manual of Veterinary Transfusion Medicine and Blood Banking Kenichiro Yagi, Marie Holowaychuk, 2016-09-06 Das Manual of Veterinary Transfusion Medicine and Blood Banking bietet mit seinem praxisorientierten Ansatz jedem Veterinärmediziner evidenzbasierte Leitlinien für die klinische Praxis. Liefert evidenzbasierte Informationen zu Verfahren in der Transfusionsmedizin und bei Blutbanken. Umfasst Kapitel zum Screening von Transfusionsempfängern zur Auswahl von Spendern zur Blutentnahme und Lagerung sowie darüber wie die Nachfrage nach Blut erfüllt wird. Beinhaltet nützliche Transfusions- und Blutbankprotokolle die für die klinische Praxis relevant sind. Ausgewogene Inhalte aus Sicht von Veterinärmedizinern und Veterinärtechnikern. Mit Informationen zu Groß- und Kleintieren sowie Exoten *Basic & Applied Concepts of Blood Banking and Transfusion Practices - E-Book* Paula R. Howard, Wyenona Hicks, 2024-11-12 Master the role of the medical laboratory scientist working in the blood bank and transfusion services. Basic Applied Concepts of Blood Banking and Transfusion Practices 6th Edition combines scientific principles with practice tips to engage learners with realistic laboratory experiences. These concepts are delivered through relevant case studies and critical thinking exercises. The text provides an overview of topics including quality and safety, the major blood groups, blood collecting and testing, transfusion reactions, and blood component preparation. Written by Paula Howard and Wyenona Nonie Hicks, both experienced Medical Laboratory Scientists and certified as Specialists in Blood Banking. SBB this text is ideal for students in any Medical Laboratory Science, MLS, Medical Laboratory Technician, MLT, or Blood Bank Technology, BBT training program as well as for practicing laboratory and healthcare professionals who wish to train for work in blood banks and transfusion services. NEW Full color illustrations that break down concepts for enhanced learner comprehension, especially for those who favor visual learning. NEW Did You Know Case Study ALERT! What's the Impact and Practice Tips provide important facts and guidelines to prepare you for situations encountered in practice. NEW Additional case studies relate to donor qualification and testing, ABO discrepancies, molecular immunohematology techniques, antibody identification, stem cell transplants, and coagulation disorders, offering extra practice in critical thinking. development. NEW Cell therapy and flow cytometry information, expanded HLA and platelet antigen and antibody material, detailed molecular genetic information in the Rh blood group system chapter, and an expanded molecular genetics section prepare you for the questions you'll be challenged with on the certification exam. NEW End of chapter Critical Thinking and Study Questions are keyed to the objectives. Coverage of current clinical practices includes transplantation and cellular

therapy the HLA system molecular techniques and applications automation blood donor qualification collection and testing component manufacturing and transfusion practices therapeutic phlebotomy and therapeutic apheresis and antibody identification and special techniques Learning features in each chapter break down difficult concepts with outlines learning objectives key terms with definitions special callouts chapter summaries basic and challenging case studies critical thinking exercises and study questions Numerous new updated and expanded tables summarize key information and make it easier to compare content These will certainly continue to provide excellent references for graduates practicing in blood banks and transfusion services Updated illustrated blood group antigen toolbars show at a glance the ISBT symbol number clinical significance reactions to chemical treatments and more for antibodies Comprehensive glossary provides definitions to key terms throughout the text Expanded online resources for students and instructors include additional study test questions and case studies

Blood Banking and Transfusion Medicine Christopher D. Hillyer, Leslie E. Silberstein, Paul M. Ness, Kenneth C. Anderson, John D. Roback, 2006-10-18 Ever since the discovery of blood types early in the last century transfusion medicine has evolved at a breakneck pace This second edition of Blood Banking and Transfusion Medicine is exactly what you need to keep up It combines scientific foundations with today's most practical approaches to the specialty From blood collection and storage to testing and transfusing blood components and finally cellular engineering you'll find coverage here that's second to none New advances in molecular genetics and the scientific mechanisms underlying the field are also covered with an emphasis on the clinical implications for treatment Whether you're new to the field or an old pro this book belongs in your reference library Integrates scientific foundations with clinical relevance to more clearly explain the science and its application to clinical practice Highlights advances in the use of blood products and new methods of disease treatment while providing the most up to date information on these fast moving topics Discusses current clinical controversies providing an arena for the discussion of sensitive topics Covers the constantly changing approaches to stem cell transplantation and brings you the latest information on this controversial topic

Textbook of Blood Banking and Transfusion Medicine Sally V. Rudmann, 2005-02-18 This comprehensive book on transfusion practices and immunohematology offers concise thorough guidelines on the best ways to screen donors store blood components ensure safety anticipate the potentially adverse effects of blood transfusion and more It begins with the basics of genetics and immunology and then progresses to the technical aspects of blood banking and transfusion Chapters are divided into sections on Basic Science Review Blood Group Serology Donation Preparation and Storage Pretransfusion Testing Transfusion Therapy Clinical Considerations and Safety Quality Assurance and Data Management Developed specifically for medical technologists blood bank specialists and residents the new edition conforms to the most current standards of the American Association of Blood Banks AABB Expert Opinion essays written by well known frequently published experts discuss interesting topics of research or new advances in the field Important terms are defined in the margins of the pages on which they appear enabling readers to easily check the meaning

of an unfamiliar term where it appears in context Margin notes highlight important concepts and points remind readers of previously discussed topics offer an alternative perspective or refer readers to other sources for further information Material conforms to the most recent AABB standards for the most accurate up to date information on immunohematology Advanced concepts beyond what is required for entry level practice are set apart from the rest of the text so readers can easily differentiate between basic and advanced information A new chapter on Hematopoietic Stem Cells and Cellular Therapy chapter 19 provides cutting edge coverage of cellular therapy and its relevance to blood banking New content has been added on molecular genetics component therapy and International Society of Blood Transfusion ISBT nomenclature as well as the latest information on HIV hepatitis quality assurance and information systems Coverage of new technologies such as nucleic acid technology and gel technology keeps readers current with advances in the field Manual of Navy Enlisted Classifications United States. Bureau of Naval Personnel,1957

Fluid Therapy for Veterinary Technicians and Nurses Charlotte Donohoe,2012-04-03 Fluid Therapy for Veterinary Technicians and Nurses provides veterinary support staff with essential information on administering fluid therapy Encompassing catheter placement monitoring of intravenous fluid therapy long term fluid therapy intravenous nutrition equipment and potential complications the book supports the reader in obtaining and maintaining intravenous access monitoring patient responses and reacting to changes in the patient s condition With complete coverage of the principles and procedures Fluid Therapy for Veterinary Technicians and Nurses offers both a solid grounding in the fundamentals and more advanced information for experienced technician Designed for ease of use each chapter begins with the basics giving a thorough foundation of information and then moves into more advanced information with potential nursing concerns and complications highlighted within the text A companion website offers images from the book in PowerPoint and review questions and answers for download at www.wiley.com/go/donohoenursing Fluid Therapy for Veterinary Technicians and Nurses is a useful resource for experienced veterinary technicians and vet tech students alike

Supportive therapy in haematology P.C. Das,C. Th. Smit-Sibinga,M. R. Halie,2012-12-06 As appropriately outlined in the first chapter in cells was pioneered in Holland by Van Loghem and part II in this book the history of contemporary Van Rood and it led eventually to the discovery of blood transfusion is only three quarters of a cen the HLA system and its subsequent explosive de tury old On the surface there is not much left in velopment In biochemistry the work on the ABO common between an arm to arm blood transfer and MN blood group substances has provided carried out as an heroic measure in the twenties pointers to general features of the biosynthesis and when patient or donor had to be weighed in order role of glycolipids and glycoproteins in the cell for the physician to decide when to stop and blood membrane and the identification of serological component therapy of today when several patients specificities associated with specific oligo sac can benefit from appropriately measured and stan chari des has proven for the first time how gene dardized amounts of various purified blood frac products that are not proteins can exhibit Men tions Yet the basic

principles of blood transfusion delian inheritance Surgical Critical Care Therapy Ali Salim, Carlos Brown, Kenji Inaba, Matthew J. Martin, 2018-05-03 This text provides a comprehensive state of the art review of this field and will serve as a valuable resource for clinicians surgeons and researchers with an interest in surgical critical care The book reviews up to date data regarding the management of common problems that arise in the Surgical Intensive Care Unit The protocols care bundles guidelines and checklists that have been shown to improve process measures and in certain circumstances are discussed in detail The text also discusses several well designed randomized prospective trials conducted recently that have altered the way we care for surgical patients with traumatic brain injury hemorrhagic shock acute respiratory distress syndrome and sepsis This book provides the practicing physician with a clinically oriented practical approach to handle basic and complex issues in the Surgical Intensive Care Unit This text will serve as a very useful resource for physicians dealing with critically ill surgical patients It provides a concise yet comprehensive summary of the current status of the field that will help guide patient management and stimulate investigative efforts All chapters are written by experts in their fields and include the most up to date scientific and clinical information This text will become an invaluable resource for all graduating fellows and practicing physicians who are taking the surgical critical care board examinations *Clinical Nursing Skills and Techniques - E-Book* Anne G. Perry, Patricia A. Potter, Wendy R. Ostendorf, Nancy Laplante, 2021-03-09 Learn clinical nursing skills and prepare for success on the Next Generation NCLEX Examination Clinical Nursing Skills Techniques 10th Edition provides clear step by step guidelines to more than 200 basic intermediate and advanced skills With more than 1 200 full color illustrations a nursing process framework and a focus on evidence based practice this manual helps you learn to think critically ask the right questions at the right time and make timely decisions New to this edition are NGN style unfolding case studies preparing you for the changes to the NCLEX exam Written by respected nursing experts Anne Griffin Perry Patricia A Potter Wendy Ostendorf and Nancy Laplante this trusted text is the bestselling nursing skills book on the market Comprehensive coverage includes more than 200 basic intermediate and advanced nursing skills and procedures NEW Next Generation NCLEX NGN style unfolding case studies include answers at the back of the book providing optimal preparation for the Next Generation NCLEX Examination Rationales for each step within skills explain the why as well as the how of each skill and include citations from the current literature Clinical Decision Points alert you to key steps that affect patient outcomes and help them modify care as needed to meet individual patient needs Unique Unexpected Outcomes and Related Interventions sections highlight what might go wrong and how to appropriately intervene Clinical Debrief at the end of each chapter provides case based review questions that focus on issues such as managing conflict care prioritization patient safety and decision making More than 1 200 full color photos and drawings make it easier to visualize concepts and procedures Five step nursing process format helps you apply the nursing process while learning each skill Coverage of QSEN core competencies is incorporated into each lesson including the areas of delegation and collaboration reporting and recording

safety guidelines and considerations relating to teaching pediatric geriatric and home care Unique Using Evidence in Nursing Practice chapter covers the entire process of conducting research including collecting evaluating and applying evidence from published research F NEW Next Generation NCLEX NGN style unfolding case studies include answers at the back of the book providing optimal preparation for the Next Generation NCLEX Examination **Conn's Current Therapy 2011** Edward T. Bope, Rick D. Kellerman, Robert E. Rakel, 2010 Conn's Current Therapy 2011 is an easy to use in depth guide to the latest advances in therapeutics for common complaints and diagnoses Drs Edward T Bope Rick D Kellerman and Robert E Rakel present the expertise and knowledge of hundreds of skilled international leaders on the full range of evidence based management options With coverage of recent developments in travel medicine sleep apnea and immunization practices as well as standardized diagnostic points and clinical recommendation tables you ll have access to the information you need in print and online at www.expertconsult.com Access the fully searchable contents online at www.expertconsult.com Deliver effective treatment after making correct diagnoses through discussions of important diagnostic criteria in each chapter Get the best most practical and accurate advice from acknowledged expert contributors Apply best practices from around the world from coverage of management methods used by international experts Stay current with recent developments in travel medicine sleep apnea immunization practices and much more Know the full range of treatment options through coverage of the latest information on recently approved and soon to be approved drugs Tap into the guidance of experts for practical and accurate advice on diagnosis and management Find the answers you need more easily with standardized Current Diagnostic Points and Current Therapy clinical recommendation tables Accurately code for reimbursement using an up to date ICD 9 list of common diseases and codes *National Library of Medicine Current Catalog* National Library of Medicine (U.S.), 1984

Plumer's Principles and Practice of Infusion Therapy Sharon M. Weinstein, Mary E. Hagle, 2014-04-02 The Ninth Edition of Plumer's Principles and Practice of Infusion Therapy provides clear concise coverage of basic and advanced infusion procedures Rely on this new edition for the most current coverage of intravenous therapy function procedures standards and equipment along with practical new features and emphasis on safety considerations as well as evidence based practice The book begins with an overview of IV therapy including how to minimize risk and enhance performance and then addresses assessment and monitoring clinical decision making patient specific therapies and infusion therapy for children the elderly and across the continuum of care Clinical Nursing Skills and Techniques Anne Griffin Perry, RN, EdD, FAAN, Patricia A. Potter, Wendy Ostendorf, 2013-02-14 Known for its clear comprehensive coverage of over 200 evidence based skills Clinical Nursing Skills Techniques is today's leading nursing skills reference It features nearly 1 000 full color photographs and drawings a nursing process framework step by step instructions with rationales and a focus on critical thinking and evidence based practice This edition includes new coverage of patient centered care and safety guidelines an emphasis on QSEN core competencies and links to valuable online resources Written by the trusted author team of Anne Griffin Perry and Patricia A

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Canadian Clinical Nursing Skills and Techniques E-Book
Shelley Cobbett, Anne G. Perry, Patricia A. Potter, Wendy R. Ostendorf, 2019-05-21 NEW Fully revised for a Canadian classroom includes Canadian statistics references and resources protocols documentation standards delegation rules Canadian nursing best practice guidelines metric measurements and more NEW All topics skills and sample documentation conform to Canadian provincial and territorial scopes of practice and Canadian standards in nursing practice NEW Inclusion of Canadian concepts Person Centred Care Evidence Informed Practice Interprofessional Collaboration and Delegation and Care in the Community NEW Greater emphasis on cultural assessment considerations and caring for Indigenous and vulnerable populations NEW Thoroughly revised chapters reflect Canadian practice and guidelines including Emergency Preparedness and Disaster Management Palliative Care Cardiac Care Vascular Access and Infusion Therapy Oral Nutrition and Prevention of Skin Breakdown and Wound Care NEW Enhanced and updated art program includes 70 new figures

Procedures, Techniques, and Minimally Invasive Monitoring in Intensive Care Medicine Richard S. Irwin, James M. Rippe, 2008 This portable paperback bench manual contains the thoroughly updated atlas of procedures and techniques and

the new section on noninvasive monitoring from Irwin and Rippe's Intensive Care Medicine Sixth Edition In a user friendly format this extremely practical how to guide provides graphically illustrated step by step instructions for every diagnostic therapeutic and noninvasive monitoring procedure used in adult critical care Coverage of each procedure includes indications contraindications equipment anatomy technique complications and ongoing care All ICU staff as well as general practitioners can depend on this manual for immediate access to reliable easy to follow instructions

Umbilical Cord Blood Banking and Transplantation Karen Ballen, 2014-08-12 This comprehensive volume discusses the current scope of umbilical cord blood transplantation UCBT including recent controversies and future developments for improving clinical outcomes Its twenty chapters introduce new applications in regenerative medicine and discuss the latest scientific regulatory clinical and investigational aspects of cord blood banking Physicians from around the world provide a global collaboration which explores strategies for umbilical cord blood expansion homing unit selection and combining of graft sources to improve patient outcomes Umbilical Cord Blood Banking and Transplantation also reviews advances in pediatric UCBT for hematologic and non hematologic disorders as well as immune recovery which is critical to preventing infection Finally it compares UCBT with other graft sources in an attempt to understand the optimal graft source for the individual patient UCBT is an important option for many patients who need a transplant but do not have a family donor or a matched unrelated donor The collective and timely knowledge presented here is essential reading for any regenerative medicine investigator cord blood banker transplant laboratory scientist or clinical physician interested in improving and expanding the applications of umbilical cord blood

Pathological reactions of cytotoxic lymphoid cells as universal therapeutic targets in cancer and autoimmune disease Elizaveta Fasler-Kan, Vadim V Sumbayev, Bernhard F. Gibbs, 2023-05-24

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