

# Phlebotomy

Essentials of Performing Phlebotomy, Circulatory System, Blood Tests, Tools, Techniques, Equipment, Color-Code/Tags & Terminology

## OVERVIEW

- **Phlebotomy** is derived from the Greek, *phlebo* (meaning vein) and *tomy* (meaning to cut).
- **Phlebotomy (P.L.T.)** (venipuncture) can be performed in the absence of the vein for blood testing.
- The main purpose of phlebotomy is to obtain blood for diagnostic testing and to collect blood for transfusion.
- It involves highly developed and rigorously tested procedures and equipment to ensure the safety and comfort of the patient and the integrity of the sample collected.
- Phlebotomy skills and competencies are performed in a variety of healthcare settings, ranging from hospital care units to home health settings.
- Furthermore, phlebotomy practice is more widely performed by all types of healthcare professionals, including:
  - Nurses
  - Respiratory therapists
  - Emergency medical technicians (EMTs)
  - Allied laboratory professionals
- In hospital and clinical settings, the person performing the venipuncture procedure is often called a **phlebotomist**.

(NOTE: See page 6 for a Glossary of Phlebotomy Terminology)

## HOW PHLEBOTOMY IS PERFORMED

(NOTE: Detailed procedural steps are outlined throughout the sections of this guide.)

### Routine Venipuncture Procedure

- **Wash and identify patient**
  - introduce yourself
  - explain that you are going to take a blood sample
  - make sure that you have the correct patient by checking the registration or armband
  - explain and prepare the patient
    - position the limb safely and comfort
    - explain the procedure and get a verbal informed consent from the patient
- **Identify your equipment**
  - gloves
  - tourniquet
  - tubes
  - gauze
  - needle holder
  - antiseptic pads, etc.
- **Apply the tourniquet**
  - If a vein above the puncture site
- **REMEMBER: tourniquet should not be left on longer than one minute.** A tourniquet left on too long may cause the following:
  - **hemostasis** (too many blood elements in serum)
  - **hemolysis** (disruption of red blood cell membrane)
- patients with difficult veins may be asked to make a fist or squeeze a rubber ball after the tourniquet is applied (once blood starts flowing, the patient is asked to open the fist or relax squeezing the ball, after which the phlebotomist releases the tourniquet)
- Select the site for the puncture area
- **Wash your site in the antiseptic foam** (inside of elbow)
  - first clean: circular motion with
  - second clean: circular motion with
  - third clean: circular motion with
- if there is no vein above or below or vein, the phlebotomist may need to consider using a digital reflex or butterfly with smaller needles
- Palpate the vein
- vein are best located by feel
- be sure to palpate with the tourniquet on:
  - vein will feel springy, bumpy and firm
  - Clean the site of venipuncture
    - antiseptic pads and soap
    - clean the area in concentric circles spiraling outward from the puncture site
    - allow to dry before puncturing the vein
- Explain the needle to patients
- Prepare the equipment
- anchor the vein and locate the vein

- hold the needle with your dominant hand
- angle the needle 15-30 degrees
- insert the needle, bevel up
- hold the needle steady
- once the tube is securely attached to the needle, the tourniquet is removed to prevent vein distention
- when you see the tourniquet return to its original state (one minute), remove the tourniquet when blood flow has been established
- this is usually done when the first tube is being filled
- tourniquet MUST BE removed prior to needle removal to prevent a hematoma (bruise) and other issues
- Advance and change tubes
  - if it is a multi-tube draw, be sure to hold needle securely and to patients arm when changing tubes
- Prepare the needle for removal
- remove the last tube holder, removing the needle to prevent blood from dripping out of the tube
- Withdraw the needle
  - apply gauze to the puncture area
  - press down on the site after the needle has been removed
  - DO NOT bend the arm over the puncture site or the arm over a hematoma
  - apply pressure for up to two minutes
- Dispose of the needle in the sharps container
- Label tubes properly
  - must contain patient's name, ID number, date and time of draw
  - if using computer-generated labels, be sure the patient information is on the label
- Return to the patient
  - make sure bleeding has stopped
  - apply a bandage for patients on blood thinners (e.g., aspirin, aspirin, and aspirin) (aspirin stops platelets from clumping together)
  - Explain if follow-up tests are in the patient's sample
  - Thank the patient
- Return specimen to the lab
  - follow the institution's policy for blood draw procedures

### The Phlebotomist Knows

Unlike the physician, phlebotomists are trained to collect and analyze blood samples. They are trained to collect blood samples from patients with various conditions, such as anemia, diabetes, and hypertension. They are also trained to collect blood samples from patients with various conditions, such as anemia, diabetes, and hypertension.

Temperature Sites of Forearm, Wrist & Hand



# Pearson Phlebotomy Exam Study Guide

**Pamela L. Swearingen**



## **Pearson Phlebotomy Exam Study Guide:**

Pearson Test Prep for Phlebotomy Access Card , **Applied Phlebotomy** Dennis J. Ernst, Dennis J. Ernst (MT(ASCP)), 2005 Geared specifically to short courses in blood collection this concise full color text teaches the skills necessary to obtain blood specimens effectively and safely in accordance with Clinical and Laboratory Standards Institute formerly NCCLS and Occupational Safety and Health Administration guidelines The book presents step by step procedure instructions and explains why these procedures are important to blood specimen collections It Could Happen To You case studies discuss actual phlebotomy related injuries Tips From the Trenches offer practical phlebotomy pointers In the Lab describes what happens to blood in the lab and underscores the importance of key collection concepts Each chapter ends with multiple choice review questions **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 *Success! in Understanding EKGs* Brenda M. Beasley, Michael C. West, 2010 Success in Understanding EKG s was created to help students pass the EKG course This study guide emphasizes the practical hands on application of EKGs that will help students better prepare for their exam To aid student understanding of the material the authors include refresher material art to illustrate the important concepts 100 rhythm strips with scenarios and 400 rhythm strips for additional review The guide emphasizes keeping it simple and provides need to know information With its abundant practice strips and scenario based examples this workbook can be used to supplement any EKG text on the market This is a perfect resource for prehospital care providers medical students cardiac care monitor techs ACLS candidates nursing professionals physician assistants and respiratory therapists **Saunders Medical Assisting**

**Exam Review - E-Book** Deborah E. Barbier Holmes, 2013-09-05 With updated review questions and practice tests Saunders Medical Assisting Exam Review 4th Edition helps you prepare for and pass the CMA RMA CMAS CCMA and CMAA certification exams An outline format makes it easy to review core concepts and competencies realistic practice tests simulate the exam experience and help you build test taking confidence This edition adds coverage of three certifications CMAS CCMA and CMAA Written by medical assisting educator Deborah Holmes this review includes an Evolve companion website with over 1 500 practice questions additional practice exams for each of the certifications flashcards and crossword puzzles Comprehensive content includes increased coverage of study skills and test taking EHR ICD 10 and diseases and disorders Convenient outline format provides at a glance review and streamlines the subject areas typically found on the certification exams An Evolve companion website provides practice taking exams electronically chapter review questions crossword puzzles and flashcards A Professionalism and Career Development chapter emphasizes the importance of presenting yourself in a professional manner UPDATED content covers the top 50 drugs most commonly encountered in practice the latest standards from CAAHEP ABHES and the NHA and topics such as emergency preparedness and the electronic medical record UPDATED laboratory tests and normal values reflect current practice NEW 3 more certifications are covered in this edition and include practice examinations on the Evolve companion website CMAS AMT CCMA NHA and CMAA NHA NEW Correlation grids to certification test outlines and competencies align with current test outlines from certifying organizations NEW 10 review questions per chapter are available on Evolve for additional practice NEW Rationales are included on all practice exams to reinforce understanding NEW Additional illustrations reinforce concepts and show equipment and supplies

*Saunders Medical Assisting Exam Review* Deborah E. Barbier Holmes, 2013-09-10 A comprehensive guide to prepare certification candidates to successfully pass either the AAMA sponsored CMA exam or the AMT sponsored RMA Each pre and post test is 300 questions the same number as the AAMA national certification exam and are formatted in a the same way with the same question type A practice CD ROM contains 800 additional questions in the same format found in the actual DMA and RMA certification exams

*Oncology Board Review, Second Edition* Francis P. Worden, Rami N. Khoriaty, Erin Cobain, Alexander T. Pearson, 2017-05-08 Print version of the book includes free access to the app web iOS and Android which offers interactive Q A review plus the entire text of the print book Please note the app is included with print purchase only Oncology Board Review Blueprint Study Guide and Q A is a concise outline based study guide covering the topics that appear on the Medical Oncology Certification Exam This second edition has been thoroughly revised to include new treatment regimens clinical guidelines and other updates impacting the field and reflected on the test The book includes all topics listed in the American Board of Internal Medicine ABIM blueprint as essential material for the Medical Oncology Certification Exam The coverage spans all hematologic malignancies and solid tumors beginning with the epidemiology and followed by the etiology and risk factors of the disease staging signs and symptoms diagnostic criteria

indications for treatment prognostic factors treatment recommendations and special considerations Later chapters review other major subspecialty areas found on the exam including cancer genetics and tumor biology supportive and palliative care bone marrow transplantation and biostatistics Each chapter includes key points summarized in digestible bullets for easy recall and self assessment And now containing over 230 board style questions with answers and detailed rationales Oncology Board Review Second Edition is the go to quick review for any trainee preparing for initial certification and for oncologists preparing for recertification New to this Edition Includes over 230 board style questions and answers with rationales New chapter on Bone Marrow Transplantation Thoroughly updated and revised chapters with all new treatment recommendations and FDA approvals for solid tumors and hematologic malignancies included **Phlebotomy Essentials, Enhanced Edition**

Ruth E. McCall, 2020-06-23 **Phlebotomy Essentials Enhanced Seventh 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 **Success! in Phlebotomy** Kathleen Becan-McBride, Diana Garza, 2010-02-23 Part of Prentice Hall's SUCCESS Series **SUCCESS in Phlebotomy Seventh Edition** offers a comprehensive approach to Phlebotomy review With recent federal state and quality assessment requirements continuing education in phlebotomy has never been more important This is the ideal review book to prepare for national board certification exams or to keep current in this dynamic field Simulating the exact format and organization of topics on the board examinations it contains over 650 multiple choice questions with explanations and complete references Some key features to this new edition include The questions are even more comprehensive in phlebotomy technical skills and interpersonal communication areas than the sixth edition The chapters include up to date exam questions with the latest blood collection equipment and accompanying figures to assist in learning effective collection steps in the utility and safety of these pieces of equipment The chapters include questions that focus on patient and phlebotomy safety and medical error reduction The latest Clinical and Laboratory Standards Institute CLSI phlebotomy standards are followed in the questions presented in each chapter The online components include a complete simulated practice exam audio glossary and links to additional online reference sources The scratch off code to access these online materials is printed on the inside front cover **Clinical Lab Science Students Medical Technology Students**

**Tietz Textbook of Laboratory Medicine - E-Book** Nader Rifai, 2022-02-03 Use THE definitive reference for laboratory medicine and clinical pathology **Tietz Textbook of Laboratory Medicine 7th Edition** provides the guidance necessary to select perform and evaluate the results of new and established laboratory tests Comprehensive coverage includes the latest advances in topics such as clinical chemistry genetic metabolic disorders molecular diagnostics hematology and coagulation clinical microbiology transfusion medicine and clinical immunology From a team of expert contributors led by Nader Rifai this reference includes access to wide ranging online resources on Expert Consult featuring the comprehensive product with fully searchable text regular content updates animations podcasts over 1300 clinical case studies lecture series and more

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**Endocrine Biomarkers** Hossein Sadrzadeh, Gregory Kline, 2017-09-25 Endocrine Biomarkers Clinical Aspects and Laboratory Determination covers all the pre analytical variables that can affect test results both in the clinic and laboratory Biomarkers of endocrine and bone diseases are discussed from both clinical and laboratory perspectives and the authors elaborate on the teamwork based approach between the clinician and the laboratory professional in the diagnosis and management of endocrine and bone disorders Discussions include test utilization laboratory measurement methods harmonization and standardization interpretation of results and reference intervals Each chapter ends with a discussion of one or two relevant cases with shared opinions from both a clinician and a clinical chemist Each chapter also includes a summary box outlining key points and common pitfalls in the use of specific disease biomarkers and tests Focuses on the traditional current and emerging clinical chemistry tests for endocrine and bone diseases along with their application in individual clinical management Presents a brief discussion of each disorder and its respective interrelationships along with laboratory methodologies that can be used to aid in evaluation of disorders Reviews common approaches to the measurement of the relevant hormones with a special focus on measures that require a structured clinical testing scenario Reviews novel chemistry tests as potential means of future diagnostic tests Provides an overview of the current methodology and controversies in the concept of target lipid levels paying particular attention to the role of clinical chemistry in helping to implement population health targets

**Success! in Phlebotomy** Kathleen Becan-McBride, Diana Garza, 2006 With recent federal state and quality assessment requirements continuing education in phlebotomy has never been more important This is the ideal review book and CD ROM to prepare for national board certification exams or to keep current in this dynamic field Simulating the exact format and organization of topics on the board examinations it contains over 650 multiple choice questions with explanations and complete references The CD ROM perfectly prepares students for the computerized format of the exam with a diagnostic exam for self assessment and a

diagnostic report which records students results in specific content areas This new edition has also been updated to correspond with Garza Becan McBride s Phlebotomy Handbook 7 e 2005 if a user chooses to use both titles Clinical Lab Science Students Medical Technology Students      Patient Centric Blood Sampling and Quantitative Analysis Neil Spooner,Emily Ehrenfeld,Joe Siple,Mike S. Lee,2023-10-31 PATIENT CENTRIC BLOOD SAMPLING AND QUANTITATIVE ANALYSIS Authoritative resource providing a complete overview of patient centric blood sampling as well as its benefits and challenges Patient Centric Blood Sampling and Quantitative Analysis focuses on the growing interest in alternative means to standard phlebotomy and analytical workflows for the collection and analysis of high quality human biological samples for the quantitative determination of circulating drugs their metabolites and endogenous substances for clinical trials routine healthcare and neonatal screening The book clearly explains the benefits and constraints of having patients collect small volumes of blood in locations outside of a clinic e g at home including patient convenience less invasive procedures increased frequency of sampling applicability to collecting samples from the young elderly and those in remote locations greater frequency and lower cost per sample Readers will learn about approaches for successfully implementing patient centric sampling workflows in a number of scenarios including the clinical setting and in the analytical laboratory Edited by four recognized experts in this field with additional specialists in the discipline enlisted to write the component chapters enabling greater depth and detail to be added and further raising the scientific standing of the publication Patient Centric Blood Sampling and Quantitative Analysis includes information on Basics of patient centric blood sampling and techniques and approaches that are available and in development for the collection and analysis of the samples Science behind patient centric blood sampling and its implications regarding human healthcare and wellbeing Application areas of patient centric sampling including drug development clinical chemistry pathology therapeutic drug monitoring and more Practical approaches to successful implementation for existing and developing purposes and workflows and case studies to support implementation within an organization Giving the reader a broad understanding of what patient centric sampling is and where it might be applied for existing and potential future areas Patient Centric Blood Sampling and Quantitative Analysis is an essential resource on the subject for many different types of laboratories areas of clinical research and healthcare including those in pharmaceutical clinical and research functions      *Greatest Benefit To Mankind* Roy Porter,1999-10-17 A new comprehensive book on the history of medicine      **SUCCESS! in Phlebotomy** Kathleen Becan-McBride,Diana Garza,2019 Comprehensive exam prep for phlebotomy certification and licensure SUCCESS in Phlebotomy A Q A Review is a complete exam preparation system that combines more than 850 exam style questions with outline style content review and interactive technology Written by professional educators with vast experience in test writing statistics and cognitive assessment the text covers all of the concepts skills techniques standards and instrumentation that students will encounter on certification and licensing exams for blood collection specimen handling and transportation The 8th edition of SUCCESS

in Phlebotomy is sequenced to match the 10th and latest edition of The Phlebotomy Handbook Amazon **Kinn's The Medical Assistant - E-Book** Deborah B. Proctor,Alexandra Patricia Adams,2013-12-27 Prepare for a successful career in medical assisting Kinn s The Medical Assistant 12th Edition helps you learn the real world administrative and clinical skills essential to working in the health care setting Administrative coverage ranges from professionalism and interpersonal skills to billing and coding and electronic health records clinical content teaches how to assist with medications diagnostic procedures and surgeries And no other comprehensive medical assisting text can match its coverage of assisting with medical specialties Written by medical assisting experts Alexandra Adams and Deborah Proctor this classic resource also includes an Evolve companion website with practical exercises and activities videos and review questions for the CMA and RMA certification exams More chapters on assisting with medical specialties than any other Medical Assisting text prepare you to assist in specialty exams and make you better qualified to work in specialty fields like cardiology dermatology ophthalmology gynecology and neurology Step by step illustrated procedures make it easier to learn and understand medical assisting skills and include rationales for each step Threaded case scenarios help you develop critical thinking skills and apply concepts to realistic administrative and clinical situations Patient education and legal and ethical issues are described in relation to the Medical Assistant s job A Portfolio Builder on the Evolve website helps you demonstrate proficiency to potential employers Detailed learning objectives and vocabulary with definitions in each chapter help you study more effectively with connections icons linking concepts in the text to exercises in the study guide and on the Evolve companion website Study Guide includes a variety of exercises to test your knowledge and critical thinking skills case scenarios from the book and a Procedure Checklists Manual Sold separately NEW Charting examples within the procedures are highlighted for easier learning UPDATED coverage of the Electronic Health Record ensures that you are familiar with the technology you ll use on the job UPDATED content on alternative therapies and treatment includes the latest herbal remedies such as red rice yeast for lowering cholesterol St John s Wort for depression and probiotic bacteria for GI maladies **All-in-One Nursing Care Planning Resource** Pamela L. Swearingen,2015-02-02 The only book featuring nursing care plans for all core clinical areas Swearingen s All In One Nursing Care Planning Resource 4th Edition provides 100 care plans with the nursing diagnoses and interventions you need to know to care for patients in all settings It includes care plans for medical surgical maternity OB pediatrics and psychiatric mental health so you can use just one book throughout your entire nursing curriculum This edition includes a new care plan addressing normal labor and birth a new full color design new QSEN safety icons new quick reference color tabs and updates reflecting the latest NANDA I nursing diagnoses and collaborative problems Edited by nursing expert Pamela L Swearingen this book is known for its clear approach easy to use format and straightforward rationales NANDA I nursing diagnoses are incorporated throughout the text to keep you current with NANDA I terminology and the latest diagnoses Color coded sections for medical surgical maternity pediatric and psychiatric



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comments Hematology instruments are described compared and contrasted Case studies in each chapter provide opportunities to apply hematology concepts to real life scenarios Hematology hemostasis reference ranges are listed on the inside front and back covers for quick reference A bulleted summary makes it easy for you 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 Additional content on cell structure and receptors helps you learn to identify these organisms NEW New chapter on Introduction to Hematology Malignancies provides an overview of diagnostic technology and techniques used in the lab      **Success! in Dental Assisting** Carol Giaquinto, Roberta Albano, 2006 Fits the Dental Assisting curriculum specifically the review course or the capstone clinical course Part of Prentice Hall's SUCCESS Series this review book is the best preparation for the Dental Assisting National Board Examination Closely matching the exam in terms of style and questions it covers certification areas in thousands of practice questions A FREE CD ROM complete with a mock examination and additional review questions offers additional exam practice This book will help all users achieve success on their exam ABOUT THE SERIES The SUCCESS exam preparation system is a tremendous method for improving pass rates in many health professions from EMS to Nursing Assisting We invite you to use our exam preparation system and HAVE SUCCESS

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