



# Phlebotomy

Essentials of Performing Phlebotomy, Circulatory System, Blood Tests, Tools, Techniques, Equipment, Color-Coded Tops & Terminology



## OVERVIEW

- **Phlebotomy** is derived from the Greek, *phlebo-* (relating to veins), and *-tomy* (relating to cutting).
- Phlebotomy (a.k.a. venipuncture) can be summarized as the puncture of a vein for blood collection or removal.
- The main purpose of phlebotomy is to obtain blood for diagnostic testing.
- It involves highly developed and rigorously tested procedures and equipment to ensure the safety and comfort of the patient, to guarantee the integrity of the sample collected, and to minimize infectious disease transmission.
- Phlebotomy skills and responsibilities are performed in a variety of healthcare settings, ranging from hospital care units to home-health settings.
- Phlebotomy practice is widely performed by all types of healthcare professionals, including:
  - Nurses
  - Respiratory therapists
  - Emergency medical technicians (EMTs)
  - Clinical laboratory professionals
- In the hospital and other 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

- Register patient
  - **Verify:**
    - Full name
    - Sex
    - Date of birth
    - Full address
    - Government photo ID card
- Receive test request
- **Verify completeness of test request and match with labels**
  - **Resolve discrepancies** before blood collection; contact responsible party for clarifications
  - Greet and approach patient
- Introduce yourself and explain why you are there
- Assess patient's specific health conditions
- **Verify availability of venipuncture supplies and equipment:**
  - Syringe container
  - Tubes
  - Gloves
  - Gauze
  - Other
  - Needle adapter
- Identify patient
  - Use extra care when there is potential for confusion among patients
- **Question patient** and verify according to their ID and ability to respond
- Assign a temporary ID for emergencies, if needed
- Assess pre-collection requirements
- Obtain informed consent from patient or guardian
- Assess physiological factors that can affect test results (e.g. cortisol, tolerance tests, and therapy monitoring)
- Clean hands
- Perform appropriate hand hygiene immediately before patient contact
- Assess patient
  - Identify and address potential complications
  - Avoid latex when there is patient hypersensitivity
  - Ensure there is nothing in patient's mouth unless medically required
- Position and prepare the patient so patient is seated or recumbent with their arm extended for both safety and comfort
- Specimen collection
  - Gather supplies
    - Devices must NOT be preassembled
  - Select site
    - Apply tourniquet 3–4 inches above the puncture site for no longer than one minute; a tourniquet left on too long may cause:
      - Hemocoagulation (too many blood elements in plasma)
      - Hemolysis (destruction of red blood cells)
      - Petechiae (red spots on the skin)
    - Patient may clench and hold their fist if their veins are difficult to identify but must not pump hand
    - The best veins are in the antecubital fossa (inside of elbow); avoid the brachial artery and nerves
    - **First choice:** Median aspect (center); median and lateral cubital vein
    - **Second choice:** Lateral aspect (outer); cephalic vein and accessory cephalic vein
    - **Third choice:** Medial aspect (inner); basilic vein and medial aspect of median cubital vein
    - Veins on the back of the hand are acceptable
    - Palpate the vein

- Veins are best located by feel
- Be sure to palpate with the tourniquet on
- Veins will feel spongy, bouncy, and firm
- Written physician permission is required for nonpreferred areas and areas on the same side as a mastectomy
- Apply a single-use or patient-dedicated tourniquet for no longer than one minute to access vein
- If venipuncture is unsuccessful, remove the tourniquet and do not reapply for at least two minutes after tourniquet removal
- Select and assemble appropriate needles and tubes
  - If blood is to be drawn from the hand or wrist, the phlebotomist may want to consider using a winged infusion set (a.k.a. butterfly needle) with a smaller needle
  - Avoid using a traditional needle and syringe when possible
- Don gloves and keep them intact
- Cleanse venipuncture site
  - Use a clean gauze pad with 70% isopropyl alcohol and back-and-forth friction unless assessing blood alcohol level or there is a facility-specified disinfectant for collecting a blood culture
  - Allow skin to dry before puncturing it
- **Recleanse if the venipuncture site is repalpated**
- Insert needle and aspirate blood
  - First examine the needle; do not use if there are defects
  - Pre-evacuate tubes if required
  - Position arm downward when possible
  - Anchor vein from below and brace the arm
  - Inform patient of needle insertion
  - Hold the needle with your dominant hand
  - Angle the needle 15–30 degrees
  - Insert the needle bevel up and advance needle for free blood flow
  - Hold the needle steady in line with the vein and stabilize the device
  - Remove the needle if there is excessive pain or withdrawal of consent
  - Allow patient to open hand unless contraindicated; do not allow hand pumping
- The tourniquet stays on no longer than one minute
  - Remove the tourniquet when blood flow has been established, usually when the first tube is being filled
- Fill and mix collection tubes
  - Fill all tubes to full volume (no vacuum)
  - Remove tube and mix recommended number of times with gentle inversion (see Color-Coded Tops for Blood Draw, p. 5, for times)
  - Add additional tubes in order of draw, as prescribed
- Remove last tube (and tourniquet if still present) before needle withdrawal

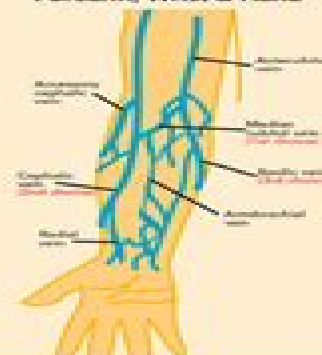
### Commonly Used Abbreviations

ALP	alkaline phosphatase
ALT	alanine aminotransferase
APTT	activated partial thromboplastin time
AST	aspartate aminotransferase
BT	bleeding time
BUN	blood urea nitrogen
BURPP	bilirubin, uric acid, phosphorus, potassium
CBC	complete blood count
Diff	differential
EDTA	ethylenediaminetetraacetic acid
EIA	enzyme immunoassay
ESR	erythrocyte sedimentation rate
FBS	fasting blood sugar
GTT	glucose tolerance test
HCT	hematocrit
HDL	high-density lipoprotein
Hgb	hemoglobin
INR	international normalized ratio
LDH	lactate dehydrogenase
LDL	low-density lipoprotein
MCH	mean corpuscular hemoglobin
MCHC	mean corpuscular hemoglobin concentration
MCV	mean corpuscular volume
MPV	mean platelet volume
PT	prothrombin time
PTT	partial thromboplastin time
RBC	red blood cell/lymph blood count
RDW	red blood cell distribution width
SPS	sodium polyanethanol sulfonate
SST	serum separator tube
WBC	white blood cell/white blood count

### The Phlebotomist Knows

Conditions like **Raynaud's disease** (constricted blood vessel) and **peripheral vascular disease (PVD)** can make routine venipuncture uncomfortable; check on patient conditions before beginning blood draw and listen carefully to information shared by patient.

### Venipuncture Sites of Forearm, Wrist & Hand



# Study Guide For Phlebotomy

**Mona Lindsey**



## **Study Guide For Phlebotomy:**

*Phlebotomy Exam Review* Ruth E. McCall, Cathee M. Tankersley, 2004 This exam review now in its Second Edition prepares students for the major national certification exams in phlebotomy including ASCP NCA ASPT NPA and AMT In a comprehensive outline format it includes content review and contains over 800 multiple choice questions with answers and rationale Also includes sample exams to encourage a comfort level in the test taking environment A CD ROM with additional 150 sample test questions accompanies this helpful review manual      **Review Questions for Phlebotomy S.A.**

Taylor, 2000-08-15 This is a large format review text with approximately 400 questions and full paragraph answers for the American Society of Clinical Pathologists Phlebotomy Technician Examination The book is in nine sections covering phlebotomy techniques equipment specimen processing and handling laboratory operations and the basic anatomy and physiology required for the Phlebotomy Technician examination Each section opens with a topical review followed by the questions and answers for that section      Phlebotomy Exam Review 2019-2020 Trivium Phlebotomy Exam Prep Team, 2018-09 You're probably thinking this is just another typical study guide Because we know your time is limited we've created a resource that isn't like most study guides With Trivium Test Prep's unofficial Phlebotomy Exam Review 2019 2020 Phlebotomy Study Guide Book and Practice Test Questions you'll benefit from a quick but comprehensive review of everything tested on the exam via real life examples graphics and information Our materials give you that extra edge you need to pass the first time NHA was not involved in the creation or production of this product is not in any way affiliated with Trivium Test Prep and does not sponsor or endorse this product Trivium Test Prep's Phlebotomy Exam Review 2019 2020 offers A detailed overview of what you need to know for the phlebotomy exam Coverage of all the subjects over which you will be tested Practice questions for you to practice and improve Test tips and strategies to help you score higher Trivium Test Prep's Phlebotomy Exam Review 2019 2020 covers Patient Preparation The Collection Process Processing Workplace Safety and includes a FULL practice test About Trivium Test Prep Trivium Test Prep is an independent test prep study guide company that produces and prints all of our books right here in the USA Our dedicated professionals know how people think and learn and have created our test prep products based on what research has shown to be the fastest easiest and most effective way to prepare for the exam Unlike other study guides that are stamped out in a generic fashion our study materials are specifically tailored for your exact needs We offer a comprehensive set of guides guaranteed to raise your score for exams from every step of your education from high school to college or the military to graduate school Let our study guides guide you along the path to the professional career of your dreams      **NHA Phlebotomy Exam 2022-2023** Mona Lindsey, 2022-08-02 When you study for your certification you must cover all your bases This book contains a comprehensive review of all the necessary information required to pass the exam such as safety and compliance patient preparation blood collection processing and more You deserve to go into your exam prepared and ready to take on any question To pass your

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### *Phlebotomy Exam Practice Questions* Exam Secrets Test Prep Staff

Phlebotomy,2018-04-12 Phlebotomy Exam Practice Questions are the simplest way to prepare for the Phlebotomy Exam Practice is an essential part of preparing for a test and improving a test taker s chance of success The best way to practice taking a test is by going through lots of practice test questions If someone has never taken a practice test then they are unprepared for the types of questions and answer choices that they will encounter on the official test There is a tremendous advantage to someone taking the test that is already familiar with the questions and answer choices Another advantage of

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Phlebotomy Technician Certification Study Guide Jane John-Nwankwo, 2014-02-24. The phlebotomy Technician Certification study guide is a simplified summary of the topics the phlebotomy technician expects to see in the national certification exams. Contents include: Introduction, Anatomy, Physiology, An overview of the skin and the heart, Site Selection, Venipuncture, Complications associated with phlebotomy, Factors to consider prior to carrying out the procedure, Quality assurance and specimen handling, Analytical errors, Routine venipuncture, Failure to obtain blood, Special venipuncture, Special specimen handling, Dermal Punctures, Micro Capillary collection, Order of draw, Test tubes, additives, and

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**Registered Phlebotomy Technician Examination** Mometrix Phlebotomy Certification Test T, Mometrix Phlebotomy Certification Test Team, 2023-07-11 Mometrix Test Preparation's AMT Phlebotomy Exam Secrets Study Guide is the ideal prep solution for anyone who wants to pass their AMT's Registered Phlebotomy Technician Examination. The exam is extremely challenging and thorough; test preparation is essential for success. Our study guide includes practice test questions with detailed answer explanations, tips and strategies to help you get your best test performance. A complete review of all Phlebotomy test sections: Obtaining Blood Samples Test, Specimen Collection and Processing Test, Time Management and Assignment Organization Test, Professional Communications Test. Mometrix Test Preparation is not affiliated with or endorsed by any official testing organization. All organizational and test names are trademarks of their respective owners. The Mometrix guide is filled with the critical information you will need in order to do well on your Phlebotomy exam: the concepts, procedures, principles, and vocabulary that the American Medical Technologists (AMT) expects you to have mastered before sitting for your exam. The Obtaining Blood Samples Test section covers: Locating veins, Proper antiseptic agents, Initiating patient contact, Proper patient identification, Recognition of inappropriate practice, Ethical decision making. The Specimen Collection and Processing Test section covers: Medical terminology, Electrolyte analysis, Specimen labeling, Interpersonal communication, Coagulation procedures, Newborn screening, Rejection criteria, Proper handling. The Time Management and Assignment Organization Test section covers: Coagulation in point of care tests, Prioritization of specimen collection, Issues with add-on tests, Requisition requirements. The Professional Communications Test section covers: Communicating with patients, Identifying patients, Written orders for tests, Preparing for a glucose tolerance test, and much more. Our guide is full of specific and detailed information that will be key to passing your exam. Concepts and principles aren't simply named or described in passing but are explained in detail. The Mometrix Phlebotomy study guide is laid out in a logical and organized fashion so that one section naturally flows from the one preceding it. Because it's written with an eye for both technical accuracy and accessibility, you will not have to worry about getting lost in dense academic language. Any test prep guide is only as good as its practice questions and answer explanations, and that's another area where our guide stands out. The Mometrix test prep team has provided plenty of Phlebotomy practice test questions to prepare you for what to expect on the actual exam. Each answer is explained in depth in order to make the principles and reasoning behind it crystal clear. We've helped hundreds of thousands of people pass standardized tests and achieve their education and career goals. We've done this by setting high standards for Mometrix Test Preparation guides, and our AMT Phlebotomy Exam Secrets Study Guide is no exception. It's an excellent investment in your future. Get the Phlebotomy review you need to be successful on your exam.

Phlebotomy Test Prep Jane John-Nwankwo, 2019-11-03 Phlebotomy Test Prep Volume One was written out of the desire to provide a quality but concise review book for Phlebotomy Technicians. Questions were constructed from all the areas of study in the phlebotomy curriculum, ranging from communication skills to pre-intra and post-analytical procedures. Constant

revision of the questions will help the student to master the contents in preparation for the phlebotomy certification exam. Reviewing the 1000 questions in Phlebotomy Test Prep volume two and three would equally assist the phlebotomy Technician student to be over prepared for the exam. Phlebotomy Exam Study Guide Falgout, 2021-06. Introducing our Phlebotomy Exam Study Guide Comprehensive Review with Practice Assessment Questions and Answer Explanations for the ASCP BOC Phlebotomy Technician Test. Ascencia Test Prep's Phlebotomy Exam Study Guide includes everything you need to pass the ASCP BOC Phlebotomy Technician Test the first time. Quick review of the concepts covered on the ASCP BOC Phlebotomy Technician Test. A full practice test with detailed answer explanations. Tips and tricks from experienced phlebotomists. Access to online flash cards, cheat sheets, and more. Ascencia Test Prep's Phlebotomy Exam Study Guide is aligned with the official ASCP BOC Phlebotomy Technician framework. Topics covered include Anatomy and Physiology, Blood Specimen Collection, Non Blood Specimen Collection, Specimen Handling, Transport and Processing, Laboratory Operations. The American Society for Clinical Pathology was not involved in the creation or production of this product, is not in any way affiliated with Ascencia Test Prep, and does not sponsor or endorse this product. About Ascencia Test Prep. At Ascencia Test Prep, we understand that healthcare professionals need high quality educational resources. That's why our test prep materials are developed by credentialed experts with years of experience who are excited to share their knowledge with you. Whether you're just starting your career or ready to climb higher, we're here to help you feel ready on test day. **Certified Phlebotomy Technician (CPT) Study Guide** Ascend Learning, 2012-02-09. Phlebotomy - E-Book Robin S. Warekois, Richard Robinson, 2015-02-19. With an illustrated storyboard format for procedures, Phlebotomy Worktext and Procedures Manual 4th Edition describes all aspects of phlebotomy with current coverage of equipment, safety procedures, arterial blood gases, point of care testing, and practical phlebotomy skills. Procedures cover core functions and are outlined with step by step instructions and new full color photos. Clinical scenarios, practice tips, and new Avoid That Error features keep the focus on application and practice. Written by phlebotomy expert Robin Warekois, this practical worktext also includes competency checklists, a mock certification exam, a detachable bookmark that can serve as a tube guide, and a new video collection on the Evolve companion website. A detailed storyboard format outlines common procedures with steps accompanied by new full color photos. Study and certification exam preparation questions in each chapter help you review and remember the material. A mock certification exam in the appendix mirrors the format of the actual phlebotomy certification exam, allowing you to review for the exam with 150 multiple choice questions. Competency Checklists at the end of the book summarize the most critical and important steps in phlebotomy procedures. Clinical scenarios and tips encourage you to apply your knowledge to real life challenges in the workplace. Student resources on an Evolve companion website include pre test animations, a new procedural video collection, interactive exercises, a mock certification exam, and an audio glossary. An anatomy and physiology section offers illustrated in depth information on body systems. A perforated bookmark on the back cover serves as a quick portable

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## **Table of Contents Study Guide For Phlebotomy**

1. Understanding the eBook Study Guide For Phlebotomy
  - The Rise of Digital Reading Study Guide For Phlebotomy
  - Advantages of eBooks Over Traditional Books
2. Identifying Study Guide For Phlebotomy
  - 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 Study Guide For Phlebotomy
  - User-Friendly Interface
4. Exploring eBook Recommendations from Study Guide For Phlebotomy

- Personalized Recommendations
- Study Guide For Phlebotomy User Reviews and Ratings
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