



# Phlebotomy

Essentials of Performing Phlebotomy, Circulatory System, Blood Tests, Tools, Techniques, Equipment, Color-Coded Taps & 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
  - Gauge
  - Other
  - Tourmiquet
  - 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., contact, 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 pre-assembled
  - 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 (disruption 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

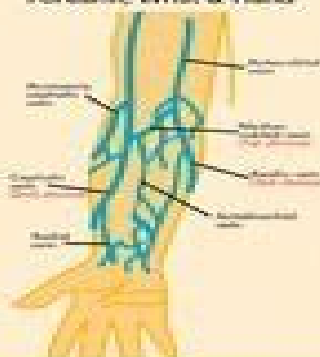
- Veins are best located by feel
- Be sure to palpate with the tourniquet on
- Veins will feel spongy, bouncy, and firm.
- Written physician permission is required for nonpreferred areas and areas on the same side as a mastectomy.
- Apply a single-use or patient-dedicated tourniquet for no longer than 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 needle 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 motion unless antiseptic blood alcohol level or there is a facility-specified disinfectant for collecting a blood culture
  - Allow skin to dry before puncturing it
- Reassess 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 barrel 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 Taps 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                          |
| BUNPP | bilirubin, ureic 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 count                         |
| RDW   | red blood cell distribution width            |
| SPS   | sodium polyanethal sulfonate                 |
| SST   | serum separator tube                         |
| WBC   | white blood cell/white blood count           |

**The Phlebotomist Knows**  
Conditions like Raynaud's disease (constricted blood vessels) and peripheral vascular disease (PVD) can make routine venipuncture uncomfortable; check on patient conditions before beginning blood draw and learn quickly to information shared by patient.

## Venipuncture Sites of Forearm, Wrist & Hand



# Phlebotomy Quick Study Guide

**Shasha Hu**



## **Phlebotomy Quick Study Guide:**

**Phlebotomy** Kathryn Almquist, 2009-12-31 Complete labeled illustrations help phlebotomy venipuncture students understand those procedures that enable blood draw testing to be safe and comfortable for patients Different forms of testing equipment and other aspects of phlebotomy are explored in up to date detail Includes easy to read tables and diagrams Publisher **Complete Phlebotomy Exam Review** Pamela Primrose, 2015-03-06 Prepare for phlebotomy certification and licensure exam success with Complete Phlebotomy Exam Review 2nd Edition This comprehensive review book has 1 500 questions A new pretest provides an assessment of strengths and weaknesses and a mock certification exam at the end of the book tests your knowledge of necessary information Organized into chapters that correlate with the trusted textbook by Warekois and Robinson each chapter includes a content review followed by multiple choice questions each with an answer a rationale and a page number reference to information in the companion textbook An Evolve website offers even more opportunity to practice with all the questions in the book plus 500 extra and the ability to sort by category or test in study or exam modes 100 question mock certification exam at the end of the book allows you to test your comprehension of the material and identify areas of strength and weakness to target study Answers rationales and page number references to the trusted companion test by Warekois and Robinson help you understand why your selected answer was right or wrong and strengthen your knowledge of key exam content areas The Evolve site provides you with myriad opportunities for practice With all the text questions plus an additional 500 you can take tests in exam or study mode and sort questions by category or chapter to tailor practice to your individual needs Organized by chapters each begins with a content review to break the subject of phlebotomy into manageable areas Multiple choice questions with answers and rationales in each chapter test your comprehension of the material NEW 1 500 questions provide you with even more opportunities for testing yourself and reinforcing the content NEW 100 question pretest at the beginning of the book lets you assess where you stand from the start so you can target your study accordingly NEW Photos and line drawings throughout the book illustrate what is being discussed and help you learn more about the equipment you will encounter on the job **Phlebotomy Exam Review** Ruth E. McCall, 2023-08-15 Phlebotomy Exam Review Eighth Edition provides a comprehensive review of current phlebotomy theory and offers an ideal way to study for phlebotomy licensing or national certification exams It also makes for an excellent study tool for students taking formal phlebotomy training programs By answering the questions in this review student can test their knowledge and application of current phlebotomy theory Theory questions address recent federal safety standards Clinical and Laboratory Standards Institute CLSI guidelines and the National Accrediting Agency for Clinical Laboratory Sciences NAACLS phlebotomist competencies when applicable Questions are standard multiple choice like those used on national exams with choices that often test your critical thinking abilities 2024 380 pages [Phlebotomy Exam Review, Enhanced Edition](#) Ruth E. McCall, 2020-06-19 Phlebotomy Exam Review Enhanced Seventh Edition thoroughly

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**Study Guide for Jones & Bartlett Learning's Comprehensive Medical Assisting** Judy Kronenberger, Julie

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

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

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