

EIGHTH EDITION

PHLEBOTOMY EXAM REVIEW

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*To all phlebotomists and phlebotomy students who believe
in quality education and national recognition for their profession.
Thank you.*

-Ruth E. McCall

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Preface

The demand for phlebotomists and other clinical healthcare professionals who perform phlebotomy to demonstrate competency through national certification continues to increase in the light of ever-changing federal safety requirements and healthcare accrediting agency requirements for quality assurance. In addition, some states, such as California, Louisiana, Nevada, and Washington require national certification by an approved certification agency as a condition of obtaining licensure.

Phlebotomy Exam Review, Eighth Edition continues the tradition of the prior edition by providing a comprehensive review of current phlebotomy theory and offers an ideal way to study for phlebotomy licensing or national certification exams. It also makes an excellent study guide for students taking formal phlebotomy training programs.

The Guide to Certification Success (Part 1) provides an overview of the certification process, an explanation of how to take and analyze your results after taking the pretest found in Part 3. It also provides studying and test-taking tips, including strategies for ESL students, tips for test day, and pointers for overcoming test anxiety.

The Exam Review (Part 2), the main question section of the book, follows the same chapter sequence, including appendices A and B, as that of the companion textbook, *Phlebotomy Essentials, Eighth Edition*, by the same author. This format makes it an ideal chapter-by-chapter study reference when used in conjunction with the textbook and the companion workbook in phlebotomy training programs or while studying for national certification exams.

The Pretest and Written Comprehensive Mock Exam (Part 3) contains a pretest to help you analyze your strengths and weaknesses, identifying areas you need to study along with an estimate of the minimum study time those areas require. The mock exam is designed to cover material that could appear on certification exams. Correct answers to both exams are provided.

By answering the questions in Part 2 and taking the tests in Part 3, you will be able to test your

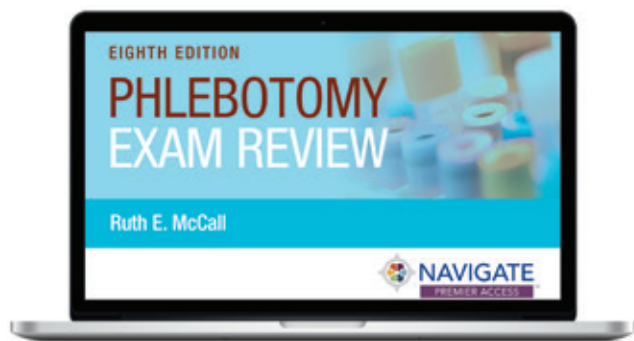
knowledge and application of current phlebotomy theory. Questions address current federal safety standards, Clinical and Laboratory Standards Institute (CLSI) standards and guidelines, and the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS) phlebotomist competencies, when applicable. Questions are standard multiple choice, like those used on national exams, with choices that often test your critical thinking abilities.

Features

Outstanding features include:

- Over **1,700** multiple choice questions including:
 - 1,457 chapter questions with detailed explanations of the correct answers
 - An additional 55 questions cover laboratory tests and laboratory math in the appendices
 - A pretest of 100 questions with detailed answer explanations and a pretest analysis to help you evaluate your knowledge and application of current phlebotomy theory
 - A comprehensive mock exam of 100 questions with answers that provide the cognitive level of the question, the relevant exam topic covered, and the chapter of the textbook where the information can be found
- Current information on the various exams, including contact information for seven organizations that offer phlebotomy certification exams
- A process for creating your very own study plan and way to track your study hours
- A section on study and test-taking skills to help ensure success on the exam
- An overview and study tips for each chapter
- Preparation tips for test-taking for ESL students
- Question choices that are similar in length and presented in alphabetical order to enhance validity of results by minimizing guessing based on the length or the letter of the choice
- Question choices that are concise to lessen the chance of confusion

Navigate Premier Access



An access code to the Navigate Premier package is included with each new printed copy of *Phlebotomy Exam Review, Eighth Edition*.

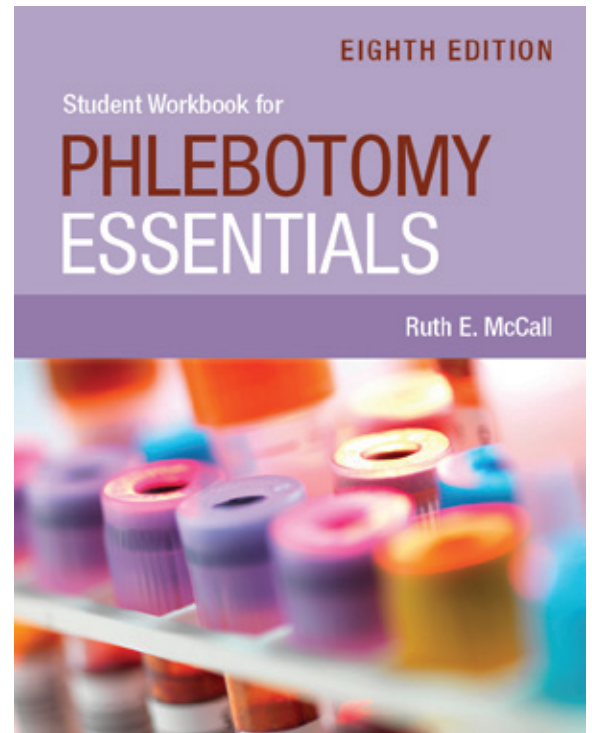
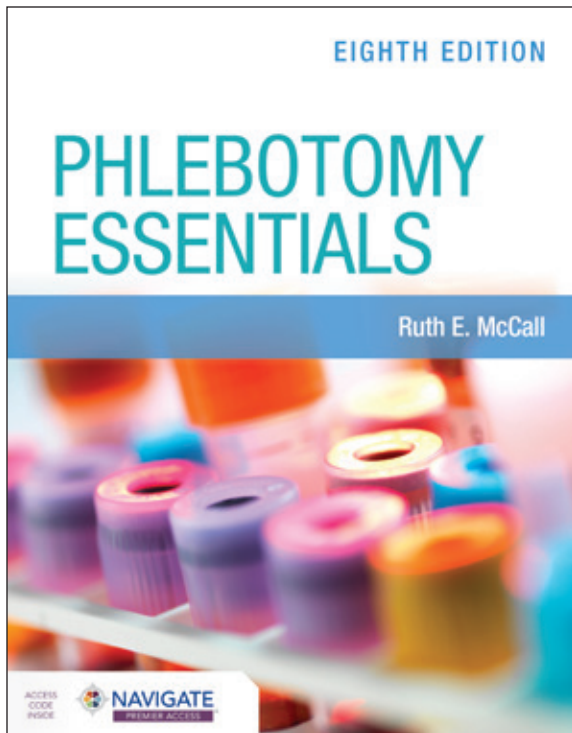
- eBook—easily access to your digital textbook on your computer, tablet, or mobile device—online or offline.
- Image bank—provides access to the images in the textbook.
- Health Professions Basic Math Review Module—learn, practice, and assess yourself on 33 basic math concepts. Answers are provided to ensure understanding of the material.
- Navigate TestPrep—an online exam simulator of over 2,000 additional questions that allows students to test themselves in review or test mode.
 - Build customized practice tests by selecting the number of questions for each category or subject.
 - Practice with simulated tests that mimic the actual exam.
 - Take notes or highlight.
 - Flag questions for later review.
 - Select your confidence level for each question.
 - Turn the timer on or off.
 - Offers immediate answers for completed questions and comprehensive answer rationales in practice mode to enable you to choose whether to return to the dashboard to build new practice tests or attempt a simulated test that mimics the actual exam.
 - Thirty-four topics include the following: Choose to test yourself in a certain area or in a mix of areas:
 - Arterial Puncture Procedures
 - Blood Collection Additives
 - Blood Collection Equipment
 - Capillary Puncture Equipment
 - Capillary Puncture Principles
 - Capillary Puncture Procedures
 - Dialysis, Long-Term Care, Home-Care, and Hospice Patients
 - First Aid
 - Human Anatomy and Physiology
 - Infection Control
 - Laboratory Informatics
 - Legal Issues
 - Medical Terminology
 - Nonblood Specimens and Tests
 - Order of Draw
 - Patient Complications and Conditions
 - Pediatric and Geriatric Venipuncture
 - Personal Wellness
 - Phlebotomy Past and Present
 - Physiological Variables, Problem Sites, and VADs
 - Point-of-Care Testing
 - Procedural Error Risks and Specimen Quality Concerns
 - Quality Assurance in Health Care
 - Routine ETS, Hand Vein, and Syringe Procedures
 - Safety
 - Special Collections
 - Specimen Handling
 - Specimen Processing
 - The Blood and Hemostasis and Coagulation
 - The Healthcare Setting
 - The Heart and Vascular System
 - The Lymphatic System
 - Troubleshooting Failed Venipuncture

Additionally, a Test Bank is available to qualified instructors.

Accompanying Products

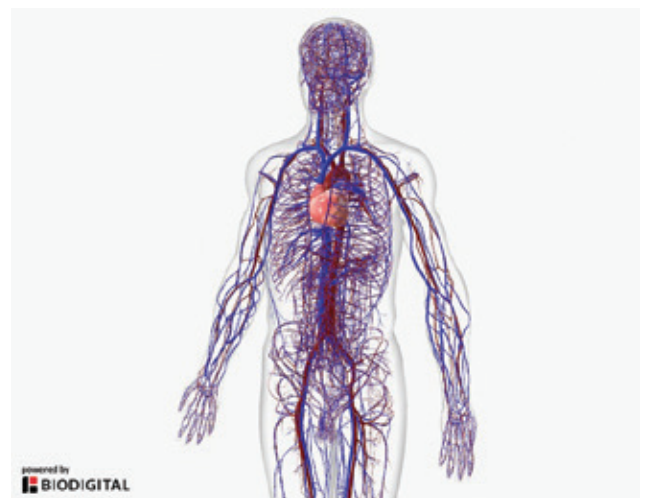
The following two titles that correspond to *Phlebotomy Exam Review, Eighth Edition*, are available for separate purchase to create an ideal study package for phlebotomy training programs.

- *Phlebotomy Essentials, Eighth Edition with Navigate Premier Access*
 - The foundation for a complete learning solution for students learning phlebotomy and sitting for certification exams. The textbook provides current, accurate, referenced



information in phlebotomy procedures and techniques, along with a comprehensive background in phlebotomy theory and principles. Designed in accordance with applicable National Accrediting Agency for Clinical Laboratory Science (NAACLS) competencies. Procedures have been written to conform to the latest OSHA safety regulations and, wherever applicable, standards developed by the Clinical and Laboratory Standards Institute (CLSI).

- Each new purchase includes Navigate Premier access—an interactive eBook, videos, animations, audio pronunciations, TestPrep, procedure evaluation forms, knowledge check questions, quizzes, and more!
- A multitude of instructor's resources—Test Bank, slides in PowerPoint format, critical thinking questions, answer keys, a certification exam map, and more—are available to qualified instructors.



- *Student Workbook for Phlebotomy Essentials, Eighth Edition*
 - Offering hundreds of questions per chapter, the Student Workbook solidifies your knowledge through matching, labeling exercises, knowledge drills, skills drills, crosswords, chapter review questions, case studies with critical thinking questions, and more!
 - Answers to Student Workbook are provided as an instructor resource, not in the printed workbook, allowing instructors to assign workbook activities as homework.
 - Every chapter includes:
 - **Matching activities** to help you learn the terms and concepts that professional phlebotomists need to know.
 - **Labeling exercises** to help you recognize important equipment, tools, and procedures.
 - **Knowledge drills**, including scrambled word activities and True/False activities that test your grasp of concepts by turning a false statement into one that is true.

- **Skills drills**, including requisition and procedure practice activities.
- **Chapter and unit crossword puzzles** that offer a fun way to reinforce and assess your knowledge, with new additional study questions in many chapters.
- **Chapter review questions** to test your comprehension as you progress through the text and build your knowledge.
- **Case studies** bring concepts to life and let you see how your new knowledge and skills can be put into practice.

This program is designed to help you succeed by providing the information and tools you need to help you pass any national exam you choose to take. It incorporates years of test-writing experience and major revisions to provide a stimulating learning experience. It is not intended to replace formal education in phlebotomy theory, nor is there any guarantee that using this exam review will ensure your success in passing any certification or licensing exam.

Ruth E. McCall