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STUDY GUIDE

PATHOPHYSIOLOGY

THE BIOLOGIC BASIS FOR DISEASE
IN ADULTS AND CHILDREN

SEVENTH EDITION

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Preface

The study of pathophysiology can be an exciting process. What happens in the tissues to cause the redness and swelling of inflammation? What happens in the heart during a heart attack? Why do people who have a specific disease display characteristic signs and symptoms? How might the same disease process be different in children, adults, and older adults?

This study guide is written to accompany the seventh edition of *Pathophysiology: The Biologic Basis for Disease in Adults and Children* by Kathryn L. McCance and Sue E. Huether. In a logical progression, the textbook begins with the central concepts of pathophysiology at the cellular and tissue level, followed by pathophysiologic processes at the organ and system levels. This study guide follows that logical progression. For example, it assists with building a working knowledge of what happens in the tissues during inflammation before addressing questions regarding heart attacks and other pathophysiologies at the organ and system level.

The study guide follows the organization of the textbook, with 49 chapters. Each chapter contains a variety of activities that develop several cognitive skills, moving from the basic skills of learning definitions and acquiring knowledge to the higher-level skills of explaining, application, and integration of knowledge. Here are examples of these activities:

- **Match the Definitions:** An understanding of definitions provides the foundation for higher-level knowledge.
- **Puzzle Out These Technical Terms:** Occasional crossword puzzles assist with learning technical terms.
- **Choose the Correct Words:** Recognizing the correct word that belongs in a sentence reinforces basic knowledge acquisition.

- **Complete These Sentences:** Filling in the blanks requires more knowledge than simply recognizing words.
- **Draw Your Answers:** Explaining a concept or process by drawing it requires mental processing of ideas that enables people to remember them for future use.
- **Order the Steps:** Putting the parts of a pathophysiologic process into their correct sequence facilitates learning to explain them, a higher order skill.
- **Explain the Pictures:** Directed toward visual learners, these questions build explaining and integrating skills.
- **Categorize These:** Choosing the category into which items belong requires understanding them and assists with differentiating between them.
- **Describe the Difference:** These questions build the skill of comparing and contrasting, an excellent way to learn about similar items without confusing them.
- **Teach These Patients about Pathophysiology:** Unique to this study guide, these teaching activities provide the opportunity to learn pathophysiology at the level of explaining rather than rote recall.
- **Case Scenarios:** Patient examples with questions assist with application and integration of knowledge in real-world settings.

As a whole, the activities in each study guide chapter build a sequence of cognitive skills that facilitate mastery of pathophysiology at the application level needed for clinical practice.

Working with Karen Turner and Sandra Clark at Elsevier has been delightful. I appreciate their receptiveness to my ideas and their enthusiasm for this project.

I dedicate this study guide to my past, present, and future students.

Linda Felver

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