



## Core Concepts in Pharmacology (3rd Edition)

By Jr. Leland Norman Holland, Michael Patrick Adams

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**Core Concepts in Pharmacology (3rd Edition)** By Jr. Leland Norman Holland, Michael Patrick Adams

This comprehensive, up-to-date text introduces pharmacology from an interdisciplinary perspective, illuminating core concepts of anatomy, physiology, and pathology that make drug therapy understandable to all nursing students. Organized around body systems and diseases, it clearly places each drug in context. Its focused nursing content includes easy-to-read flowcharts that illuminate assessment, diagnosis, planning, interventions, patient education, discharge planning, and evaluation. This edition contains new chapters on the nursing process and drugs for degenerative diseases and muscles; new Safety Alerts; new coverage of weight loss surgery and drugs; revamped NCLEX-PN® questions; a brand-new glossary, and many other improvements. Some new features to this edition include:

- New! Full chapter on the nursing process
- New! All-new chapter on drugs for degenerative diseases and muscles
- New! Safety Alerts call attention to medication errors and Joint Commission safety guidelines Updated! End-of-chapter NCLEX-PN® questions completely revamped to reflect the latest practice
- New! Scenario-based Case Study Questions help students apply pharmacology and nursing care to specific clients and circumstances

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### Editorial Review

From the Back Cover

Prediction of drug action requires a thorough knowledge of both natural and applied sciences, making pharmacology one of the most challenging subjects for those embarking on careers in the health sciences. Assuming no prior knowledge, *Core Concepts in Pharmacology* presents a comprehensive, interdisciplinary perspective drawing upon core concepts of anatomy, physiology, and pathology to make drug therapy understandable. An essential book for anyone entering into an allied health occupation, it is appropriate for a stand-alone course or as a resource for anyone looking for a refresher.

### Features Include:

- A FREE CD-ROM containing an interactive mathematics program, as well as animations of drug action
- A FREE Companion Website containing additional review questions, links to pharmacology resources, and a test bank
- Learning Objectives and Key Terms at the beginning of each chapter
- Concept Reviews and Client Teaching boxes throughout each chapter reinforce difficult concepts
- Chapter-ending review questions allow for critical thinking and review
- A prototype approach to drug therapy with the most common described in detail and the remaining highlighted in a grid that shows the similarities and differences
- Mechanism in Action feature shows life-like illustrations of drug action within the body for all prototype drugs - animated versions on the CD-ROM
- Numerous diagrams and line art for visual learning
- On the Job feature that discuss how pharmacology is applied the health occupations
- Alternative and herbal therapies in each drug chapter

About the Author

**Michael Patrick Adams, RT(R), PhD** is the Associate Dean for Health, Mathematics, and Science at Pasco-Hernando Community College. He is an accomplished educator, author, and national speaker. The National Institute for Staff and Organizational Development in Austin, Texas named Dr. Adams a Master Teacher. He has been registered by the American Registry of Radiologic Technologists for over 30 years. Dr. Adams obtained his master's degree in pharmacology from Michigan State University and his doctorate in education from the University of South Florida.

**Leland Norman Holland, PhD, JR** is the Science Chair in the Division for Health, Mathematics, and Science at Pasco-Hernando Community College. He is actively involved in teaching and preparing students for various health professions including nursing, dentistry, and pharmacy. He comes to the teaching profession after several years involvement in basic science research at the VA Hospital in Augusta, Georgia and the Medical College of Georgia, where he received his Ph.D. in pharmacology. He has taught pharmacology for 10 years at both the undergraduate and graduate levels. One of his paramount goals as an educator is to help students achieve success, and he has assisted many in their pursuit of healthcare degrees.

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Pharmacology is one of the most challenging subjects for those embarking on careers in the health sciences. By its very nature, pharmacology is an interdisciplinary subject, borrowing concepts from a wide variety of the natural and applied sciences. Prediction of drug action, the ultimate goal in the study of pharmacology, requires a thorough knowledge of anatomy, physiology, chemistry, and pathology, as well as the social sciences of psychology and sociology. It is the interdisciplinary nature of pharmacology that makes the subject difficult to learn but also makes it fascinating to study.

This text presents pharmacology from an interdisciplinary perspective. The text draws upon core concepts of anatomy, physiology, and pathology in order to make drug therapy more understandable. This text does not assume that the student comes to the course with a strong background in the natural or applied sciences. Although it is true that many students have prerequisite courses prior to attempting introductory pharmacology, such courses may have been taken many years prior. In this text, the prerequisite science-knowledge necessary for understanding drug therapy is reviewed prior to presenting the core concepts in pharmacology.

## **APPROACH AND RATIONALE**

### **Core Concepts**

The authors have created a concise means of communicating the most important pharmacologic information to the student. Through the use of numbered **Core Concepts**, the student can quickly identify key ideas. These core concepts are stated at the beginning of each chapter so the student gets an overview of what is to be learned. **Concept Reviews** are questions placed strategically throughout the chapter to stimulate student comprehension and retention. Also, **Concept Summaries** are repeated at the end of the chapter, which include brief summary of the important concepts.

### **Disease and Body System Approach**

*Core Concepts in Pharmacology* is organized according to body systems and diseases. This clearly places the drugs in context with how they are used therapeutically. The student can easily locate all relevant anatomy, physiology, pathology, and pharmacology in the same chapter in which the drugs are discussed.

### **Prototype Approach to Drug Therapy**

The vast number of drugs taught in a pharmacology course is staggering. To facilitate learning, a prototype approach is used in which the one or two most representative drugs in each classification are introduced in detail. **Drug Profile** boxes are used to clearly indicate these important medications.

### **Pharmacology as a Visual Discipline**

For many students, learning can be a highly visual process. *Core Concepts in Pharmacology* is the first pharmacology text to incorporate **Mechanisms in Action**, which use computer animations to clearly demonstrate drug action. A colorful graphic of the animation is included in many of the Drug Profile boxes along with a description of the drug action. The complete animation, including audio narrations that describe each step of the mechanism, are provided on the included student CD-ROM. This text also incorporates generous use of figures and diagrams to illustrate and summarize key concepts.

### **Health Professions Focus**

*Core Concepts in Pharmacology* uses an interdisciplinary approach to pharmacology that is applicable for all

basic nursing and allied health professions. Practical nurses, respiratory therapists, radiographers, EMTs, paramedics, physical therapist assistants, patient care assistants, home health care workers, and those beginning the allied health occupations can benefit from the unique structure and clarity of the text. **On the Job** boxes, included in most chapters, show the student the application of pharmacology by various health professionals.

## The Health Professional as Teacher

It is not sufficient for a health professional to only learn pharmacology. It is equally important to learn to communicate pharmacological knowledge to clients and other members of the public. To help the student achieve the ability to communicate pharmacology, each drug chapter contains concise **Client Teaching** boxes which apply fundamental patient care principles to pharmacology.

## Holistic Pharmacology

*Core Concepts in Pharmacology* approaches pharmacology from a holistic perspective. Throughout the text, the relationship between lifestyle habits, such as proper body weight, exercise, and nutrition, to pharmacology are discussed. Most chapters contain a **Natural Alternative** feature which presents a popular herbal or dietary supplement that may be considered along with conventional drugs. The **FastFacts** feature puts the disease in a social and economic perspective.

## Medical Terminology

Pharmacology and other medical sciences use a unique language that can be overwhelming for beginning students. In each chapter of *Core Concepts in Pharmacology* key terms are defined at the beginning of each chapter, and each term includes the page number on which the first reference to the word can be found. **Key terms** are placed in blue boldface type throughout the text. Since pronunciation of medical terms is often difficult, a phonetic pronunciation is provided for difficult key terms. Phonetic pronunciations are also provided in the index for the generic name of each drug. **Word roots** are included in the margins to help the student identify prefixes and suffixes essential to medical word-building. An **audio glossary** can be found at the Companion Website and the free Student CD-ROM.

## PharMedia and PharmLinks

**PharMedia** is included at the beginning of each chapter. This feature guides the student to resources, interactive exercises, and animations for that chapter on the Student CDROM and Companion Website. PharMedia serves as a gateway to additional learning. **PharmLinks** invite the student to perform specific web activities or to consult the accompanying CD-ROM.

## COMPLETE TEACHING & LEARNING PACKAGE

To enhance the teaching and learning process, an attractive media-focused supplements package for both students and faculty has been developed in close correlation with *Core Concepts in Pharmacology*. The full complement of supplemental teaching materials is available to all qualified instructors from your Prentice Hall Health Sales Representative.

**Student CD-ROM.** The Student CD-ROM is packaged free with each copy of the textbook. It provides thirty animations showing how drug action occurs at the cellular and system levels. These animations build upon the feature in the textbook entitled, *Mechanism in Action*, and help students visualize these difficult concepts. The CD-ROM also includes NCLEX-PN Review questions that emphasize application of care and

client education related to drug administration. Students can test their knowledge and gain immediate feedback through rationales for right and wrong answers. In addition, Concept Review questions provide students an additional opportunity for applying their knowledge. Students will also find the audio glossary and objectives useful for review. Finally, the CD-ROM allows access to the Companion Website described below (internet connection required).

**Student Workbook.** A Student Workbook for *Core Concepts in Pharmacology* has been developed to closely parallel the text. The Workbook contains a variety of question types and a large number of practice questions and learning activities. Other study aids may be found at the Companion Website.

**Instructor's Resource Manual.** This manual contains a wealth of material to help faculty plan and manage the pharmacology course. It includes chapter overviews, lecture suggestions and outlines, learning objectives, a complete test bank, teaching tips, and more. The IRM guides faculty on how to assign and use the text-specific Companion Website, [www.prenhall.com/holland](http://www.prenhall.com/holland), and the CD-ROM which accompany the textbook.

**Instructor's Resource CD-ROM.** This CD-ROM provides many resources in an electronic format. First, the CD-ROM includes the complete test bank in Test-Gen format. Second, it includes a comprehensive collection of images from the textbook in PowerPoint format so that faculty can easily import these photographs and illustrations into their own classroom lecture presentations. Finally, the CD-ROM provides instructors with access to the same animations which appear on the student CD-ROM, allowing faculty to incorporate these visual accents into their lectures.

**Companion Website and Syllabus Manager®.** Students and faculty will both benefit from the free Companion Website at [www.prenhall.com/holland](http://www.prenhall.com/holland). This website serves as a text-specific, interactive online workbook to *Core Concepts in Pharmacology*. The Companion Website includes modules for Objectives, Audio Glossary, Chapter Summary for lecture notes, Dosage Calculations, PharmLinks, Case Studies, Care Plan activities, Drug Reviews, and more. Instructors adopting this textbook for their courses have free access to an online Syllabus Manager. The syllabus Manager hosts a wide variety of features that facilitate the students' use of the Companion Website and allows faculty to post their syllabi online for their students. For more information or a demonstration of Syllabus Manager, please contact your Prentice Hall Health Sales Representative or go online to [www.prenhall.com/demo](http://www.prenhall.com/demo).

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Nowadays reading books are more than want or need but also be a life style. This reading routine give you lot of advantages. The advantages you got of course the knowledge the particular information inside the book which improve your knowledge and information. The information you get based on what kind of publication you read, if you want send more knowledge just go with schooling books but if you want truly feel happy read one with theme for entertaining such as comic or novel. The *Core Concepts in Pharmacology* (3rd Edition) is kind of guide which is giving the reader unforeseen experience.

**James Edgar:**

The book Core Concepts in Pharmacology (3rd Edition) has a lot of information on it. So when you make sure to read this book you can get a lot of profit. The book was compiled by the very famous author. Tom makes some research previous to write this book. That book very easy to read you may get the point easily after perusing this book.

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