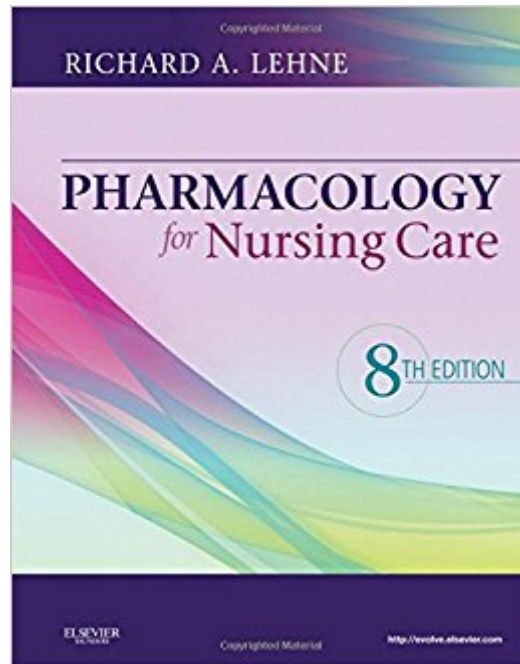


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# Pharmacology For Nursing Care



## Synopsis

A favorite among nursing students, *Pharmacology for Nursing Care, 8th Edition*, features a uniquely engaging writing style, clear explanations, and unmatched clinical precision and currency to help you gain a solid understanding of key drugs and their implications -- as opposed to just memorization of certain facts. Compelling features such as a drug prototype approach, use of large and small print to distinguish need-to-know versus nice-to-know content, and a focus on major nursing implications save you study time by directing your attention on the most important, need-to-know information. The new edition also features an abundance of content updates to keep you ahead of the curve in school and in professional practice. **UNIQUE!** Engaging writing style with clear explanations makes content easy to grasp and even enjoyable to learn. A drug prototype approach uses one drug within each drug family to characterize all members of its group to help you learn about related drugs currently on the market and drugs that will be released once you begin practice. **UNIQUE!** Special Interest Topic boxes address timely issues in pharmacology and connect pharmacology content with current trends. Large print/small print design distinguishes essential "need-to-know" information from "nice-to-know" information. Limited discussion of adverse effects and drug interactions keeps your limited study time focused on only the most clinically important information. Reliance on up-to-date evidence-based clinical guidelines ensures that therapeutic uses are clinically relevant. Integrated and summarized nursing content demonstrates the vital interplay between drug therapy and nursing care. Coverage of dietary supplements and herbal interactions equips you to alert patients and caregivers to the potential dangers of certain dietary supplements, including interactions with prescribed and over-the-counter drugs and herbal therapies. Additional learning features provide a touchstone for study and review as you complete reading assignments and build a foundation of pharmacologic knowledge. Updated drug content and related nursing content reflect the very latest FDA drug approvals, withdrawals, and evidence-based therapeutic uses. Expanded and updated content on medication safety prepares you to pass the NCLEX Examination and practice safe medication administration in the clinical setting. Expanded coverage of pharmacogenomics introduces you to the many different genetic factors that influence drug therapy. New information on electronic prescribing primes you for nursing practice in the 21st century, as electronic prescribing systems become more common in the clinical setting. Updated coverage of evidence-based clinical treatment guidelines, particularly those for cholesterol and diabetes management, promotes evidence-based practice in nursing pharmacology. New chapter (Chapter 39) on nicotine and tobacco abuse highlights our growing understanding of the unique addictive properties of nicotine and the nursing considerations for helping patients improve their

health through smoking cessation. Canadian drug names are now included and highlighted with a maple leaf icon to familiarize U.S readers with other trade names they may see and to make the book more useful for Canadian students.

I. INTRODUCTION

1. Orientation to Pharmacology
2. Application of Pharmacology in Nursing Practice
3. Drug Regulation, Development, Names, and Information

II. BASIC PRINCIPLES OF PHARMACOLOGY

4. Pharmacokinetics
5. Pharmacodynamics
6. Drug Interactions
7. Adverse Drug Reactions and Medication Errors
8. Individual Variation in Drug Responses

III. DRUG THERAPY ACROSS THE LIFESPAN

9. Drug Therapy During Pregnancy and Breast-Feeding
10. Drug Therapy in Pediatric Patients
11. Drug Therapy in Geriatric Patients

IV. PERIPHERAL NERVOUS SYSTEM DRUGS

12. Basic Principles of Neuropharmacology
13. Physiology of the Peripheral Nervous System
14. Muscarinic Agonists and Antagonists
15. Cholinesterase Inhibitors and Their Use in Myasthenia Gravis
16. Drugs That Block Nicotinic Cholinergic Transmission: Neuromuscular Blocking Agents and Ganglionic Blocking Agents
17. Adrenergic Agonists
18. Adrenergic Antagonists
19. Indirect-Acting Antiadrenergic Agents

V. CENTRAL NERVOUS SYSTEM DRUGS

20. Introduction to Central Nervous System Pharmacology
21. Drugs for Parkinson's Disease
22. Alzheimer's Disease
23. Drugs for Multiple Sclerosis
24. Drugs for Epilepsy
25. Drugs for Muscle Spasm and Spasticity
26. Local Anesthetics
27. General Anesthetics
28. Opioid (Narcotic) Analgesics, Opioid Antagonists, and Nonopioid Centrally Acting Analgesics
29. Pain Management in Patients with Cancer
30. Drugs for Headache
31. Antipsychotic Agents and Their Use in Schizophrenia
32. Antidepressants
33. Drugs for Bipolar Disorder
34. Sedative-Hypnotic Drugs
35. Management of Anxiety Disorders
36. Central Nervous System Stimulants and Attention-Deficit/Hyperactivity Disorder
37. Drug Abuse I: Basic Considerations
38. Drug Abuse II: Alcohol
39. Drug Abuse III: Nicotine and Smoking NEW!
40. Drug Abuse IV: Major Drugs of Abuse Other Than Alcohol and Nicotine

VI. DRUGS THAT AFFECT FLUID AND ELECTROLYTE BALANCE

41. Diuretics
42. Agents Affecting the Volume and Ion Content of Body Fluids

VII. DRUGS THAT AFFECT THE HEART, BLOOD VESSELS, AND BLOOD

43. Review of Hemodynamics
44. Drugs Acting on the Renin-Angiotensin-Aldosterone System
45. Calcium Channel Blockers
46. Vasodilators
47. Drugs for Hypertension
48. Drugs for Heart Failure
49. Antidysrhythmic Drugs
50. Prophylaxis of Coronary Heart Disease: Drugs That Help Normalize Cholesterol and Triglyceride Levels
51. Drugs for Angina Pectoris
52. Anticoagulant, Antiplatelet, and Thrombolytic Drugs
53. Management of ST-Elevation Myocardial Infarction
54. Drugs for Hemophilia
55. Drugs for Deficiency Anemias
56. Hematopoietic Agents

VIII. DRUGS FOR ENDOCRINE DISORDERS

57. Drugs for Diabetes Mellitus
58. Drugs for Thyroid Disorders
59. Drugs Related to Hypothalamic and Pituitary Function
60. Drugs for Disorders of the Adrenal Cortex

IX. WOMEN'S HEALTH 61. Estrogens and Progestins: Basic Pharmacology and Noncontraceptive Applications 62. Birth Control 63. Drug Therapy of Infertility 64. Drugs That Affect Uterine Function  
X. MEN'S HEALTH 65. Androgens 66. Drugs for Erectile Dysfunction and Benign Prostatic Hyperplasia XI. ANTI-INFLAMMATORY, ANTIALLERGIC, AND IMMUNOLOGIC DRUGS 67. Review of the Immune System 68. Childhood Immunization 69. Immunosuppressants 70. Antihistamines 71. Cyclooxygenase Inhibitors: Nonsteroidal Anti-inflammatory Drugs and Acetaminophen 72. Glucocorticoids in Nonendocrine Disorders XII. DRUGS FOR BONE AND JOINT DISORDERS 73. Drug Therapy of Rheumatoid Arthritis 74. Drug Therapy of Gout 75. Drugs Affecting Calcium Levels and Bone Mineralization XIII. RESPIRATORY TRACT DRUGS 76. Drugs for Asthma 77. Drugs for Allergic Rhinitis, Cough, and Colds XIV. GASTROINTESTINAL DRUGS 78. Drugs for Peptic Ulcer Disease 79. Laxatives 80. Other Gastrointestinal Drugs XV. NUTRITION 81. Vitamins 82. Drugs for Weight Loss XVI. CHEMOTHERAPY OF INFECTIOUS DISEASES 83. Basic Principles of Antimicrobial Therapy 84. Drugs That Weaken the Bacterial Cell Wall I: Penicillins 85. Drugs That Weaken the Bacterial Cell Wall II: Cephalosporins, Carbapenems, Vancomycin, Telavancin, Aztreonam, Teicoplanin, and Fosfomycin 86. Bacteriostatic Inhibitors of Protein Synthesis: Tetracyclines, Macrolides, and Others 87. Aminoglycosides: Bactericidal Inhibitors of Protein Synthesis 88. Sulfonamides and Trimethoprim 89. Drug Therapy of Urinary Tract Infections 90. Antimycobacterial Agents: Drugs for Tuberculosis, Leprosy, and Mycobacterium avium Complex Infection 91. Miscellaneous Antibacterial Drugs: Fluoroquinolones, Metronidazole, Daptomycin, Rifampin, Rifaximin, Bacitracin, and Polymyxins 92. Antifungal Agents 93. Antiviral Agents I: Drugs for Non-HIV Viral Infections 94. Antiviral Agents II: Drugs for HIV Infection and Related Opportunistic Infections 95. Drug Therapy of Sexually Transmitted Diseases 96. Antiseptics and Disinfectants XVII. CHEMOTHERAPY OF PARASITIC DISEASES 97. Anthelmintics 98. Antiprotozoal Drugs I: Antimalarial Agents 99. Antiprotozoal Drugs II: Miscellaneous Agents 100. Ectoparasiticides XVIII. CANCER CHEMOTHERAPY 101. Basic Principles of Cancer Chemotherapy 102. Anticancer Drugs I: Cytotoxic Agents 103. Anticancer Drugs II: Hormonal Agents, Targeted Drugs, and Other Noncytotoxic Anticancer Drugs XIX. ADDITIONAL IMPORTANT DRUGS 104. Drugs for the Eye 105. Drugs for the Skin 106. Drugs for the Ear 107. Miscellaneous Noteworthy Drugs XX. ALTERNATIVE THERAPY 108. Dietary Supplements XXI. TOXICOLOGY 109. Management of Poisoning 110. Potential Weapons of Biologic, Radiologic, and Chemical Terrorism

## **Book Information**

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## Customer Reviews

This is a required textbook for a university's nurse practitioner program. I had previously taken a pharmacology course from a junior college. The comparison between the two courses' textbooks is immense. First, I have to comment on the size of this text's fonts. It seems like the publisher realized that 1400 pages was the max it could safely fit into a backpack without people filing claims about back injuries. So, the font must have been shrunk a little smaller than normal reading size to allow for a need to reduce pages. The junior college text was only about 800 pages and a 12 pt. font. Second, the quality of the author's intent in publishing this textbook shows from the start. The j.c. textbook was written well. But, this textbook is geared towards teaching the student why this course, book, and understanding the information is extremely important. There is a lot of passion in this text. So much so that I find myself reading it ahead of the class because it's interesting to read. The examples the author gives in the implications of pharmacology and the nursing process are incredibly clear and concise. Those examples give depth to the reasoning behind why nurses play a critical role in pharmacological treatment. Great text!

Fellow nursing students, I won't lie to you--pharm isn't going to be the easiest class that you'll be required to take. However, this text will be one of the few during your college or graduate school career that will actually do what it sets out to do: explain its subject matter in an understandable manner. Even among the understandable ones, few authors do it with as much grace or charm as Lehne, whose writing about a dry subject like pharmacology is conversational (all the time), encouraging (all the time), and drolly hilarious (when he jokes about killing his wife's dog with the

theobromine in chocolate). The text is a good professor distilled into book format--all 10 pounds of it. Make no mistake, this book is a doorstopper and could be used as a lethal weapon. Yet, despite its weight (not to mention length), you'll very rarely feel like you're reading a science textbook. Most chapters are between 10 to 15 pages, offering a decent level of detail for a generalist RN student without being boring. Text within the chapters comes in different shapes and sizes: important drugs are in full-size font, less important ones in small print. The only thing you might miss are a lack of the glitzy photographs that you see in a lot of other textbooks, but this helps keep the cost down: my general biology textbook back during undergrad was about half as thick, yet cost 50% more. Lehne uses a "prototype" approach for teaching drugs: he'll give you a single drug from a specific class (say, Prozac from the SSRI antidepressants,) and once you learn the mechanism of action, side effects, and other important details about that particular drug, it will be relatively easy to infer how the rest of the drugs within the same class operate. This will be much easier than trying to memorize every characteristic of every drug ever, especially when new drugs are always being released. There are a few confusing parts to the text--Lehne's explanation of digoxin's mechanism of action could use a bit of clarification, the chemotherapy and antiviral chapters are a bit too long--but these few gripes are not enough for me to seriously consider marking down such an excellent text. I am ordinarily not one to save books after I pass a class, but as I move forward in nursing school, I still find myself referring back to this book as my first resource whenever I need to look up an unfamiliar drug for clinical or class. I'll end with a bit of advice for your pharm class in general: find the prototype drug in each chapter, create index cards that list the GENERIC NAME (avoid trades when possible, generic names often offer a clue to drug class), mechanism of action, side effects, target receptor, and physical signs that you should look for to assess a drug's effectiveness (or lack thereof). Above all else, actively read this book! It WILL help you, unlike most other texts. Best of luck! You can do it!

This was required reading for my pharmacology class. It is an awesome book, packed with information about all medications. There isn't very much 'fluff' in this book though so it makes it very hard to read, it is pretty much impossible to skim through. I recommend you don't even try to highlight because everything is important. The Elsevier also had chapter key points and quizzes (with rationals) on their website for free with the book. Unfortunately for my class though, we were required to read 8-10 chapters a week and were tested on 22-28 chapters at a time so we could cover the whole 110 chapters in a semester (this book is like 3" thick). It was insane, and I feel like I didn't get all the information I could have gotten from this book if I had more time to actually read it.

If your instructor plans on going through the whole book in a semester, I recommend starting to read regularly a month or so early.

This book is BIG, but it is filled with so much useful information. It really has become a lifeline for me, as I am in Pharmacology for Nursing right now. The chapters are not horrible to read because there is not a lot of unneeded information. I found that highlighting in this book is also extremely helpful. Dr. Lehne does a great job conveying what is needed to do well in pharmacology. There is a lot of information in this book, and he makes it bearable to read and understand. At some points, I even forgot I was reading a 1000+ page book about drugs. This is the first nursing book that I have actually read and enjoyed. So, even if you are not a textbook reader, buy this book. It will change how you feel! Outstanding textbook!

I love the book, but I hate that after paying \$90 for the kindle version, the book is no longer available due to the app constantly crashing. After spending an hour with customer support, they informed me that the kindle app for my device had been updated, and the updated version of the book would not be available for 24-48 hours. That sucks when you are a working student and every hour counts in your busy schedule. I will know be taking a test without having the opportunity to have read all the chapters that I needed to! If I pay \$90 for an e-book, I expect 24/7 access to its contents. Please fix this ASAP! My grade depends on it! If you are a student thinking about buying e-books, you probably should not, because obviously the publisher does not think it is necessary for students to have 24/7 access to their textbooks!

I like this book. This was not required in my RN program but I bought the 6th edition on a library sale and really liked how the concepts were presented. I found the 8th edition on and bought it as a supplement to my studies. Very helpful in explaining the actions of most drugs according to body systems.

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