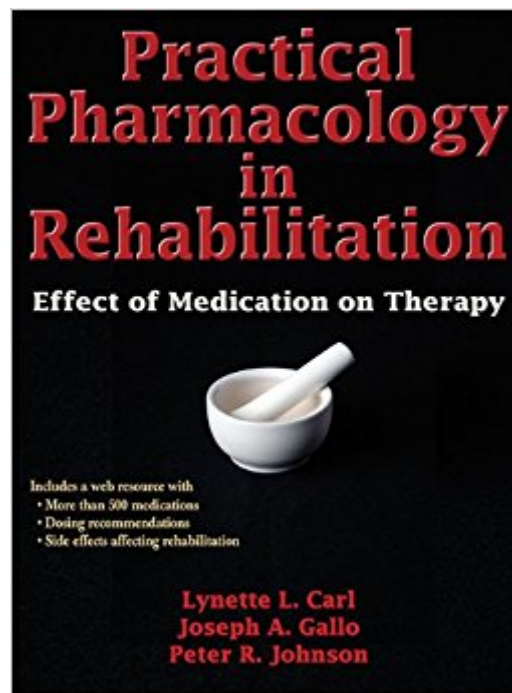




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# Practical Pharmacology In Rehabilitation With Web Resource: Effect Of Medication On Therapy



## Synopsis

Practical Pharmacology in Rehabilitation: Effect of Medication on Therapy With Web Resource serves as a textbook for students and a reference book for practicing rehabilitation professionals. Rather than discussing pharmacology as it relates to only a limited segment of rehabilitation professions, this text takes an interdisciplinary approach to the effects of medications on rehabilitation patients and assists rehabilitation professionals in designing patient-specific therapy plans based on coexisting disease states. Practical Pharmacology in Rehabilitation explains the necessary pharmacology and then focuses on the relationship between medications and the rehabilitation process. It offers a proactive approach to educating the patient and caregiver, monitoring the patient for side effects, and modifying therapy plans to provide the most effective and safe therapy for each patient. Written by a clinical pharmacist, a speech-language pathologist, and a physical therapist and athletic trainer, this unique guide helps readers in these ways:

- Optimize rehabilitation sessions with appropriately timed and dosed administration of medication.
- Understand the effects of medication on cognition and learning necessary for accomplishing the tasks of rehabilitation.
- Identify medication-associated issues affecting the rehabilitation progress, such as dysphagia and problems with muscle function.
- Work with patients, caregivers, staff, and physicians to determine appropriate interventions regarding medication use in patients.

In each chapter, Patient Cases based on the authors'™ clinical experiences engage readers in understanding how medications can positively or negatively affect the rehabilitation process. Readers will need to consider the role of various medications, drug interactions, and drug intolerances on speech and language, cognition, and ADL and motor functioning as they apply concepts to determine possible solutions to each case. Throughout the text more than 100 easy-to-use tables provide quick access to information, including potential side effects affecting rehabilitation for common medications used in treatment for many conditions and other possible side effects or considerations. Expanded versions of many of these tables are offered as downloadable PDFs in the accompanying web resource. Those tables provide more complete and in-depth coverage by breaking medications down by class, indications, dosage, and potential side effects or interactions. Practical Pharmacology in Rehabilitation begins by presenting foundational concepts necessary for understanding clinical disease states and the impact of medications used for treatment on rehabilitation. Chapters that follow are grouped by categories of clinical disease covering psychiatric and cognitive disorders, neurologic and movement disorders, chronic pain syndromes and substance abuse disorders, immune system disorders, and common chronic diseases such as diabetes, cardiac disease, thyroid and parathyroid disease, respiratory diseases,

gastrointestinal diseases, and dysphagia. Each chapter begins with a definition of the condition or special population that it focuses on. Chapters are organized to provide an overview of the pathophysiology, pharmacology, mechanism of action, dosing and monitoring for effects, drug and food interactions, side effects and effects on rehabilitation, and the role of various rehabilitation specialists for each disease state. Summaries conclude each chapter to reinforce the important concepts covered. A glossary is included, and terms are boldfaced in the text to denote their inclusion. A medication index, an index of important terms, and an appendix with information on administering medications using iontophoresis and phonophoresis are also included. With *Practical Pharmacology in Rehabilitation*, students in rehabilitation and related health care fields can gain essential knowledge to prevent adverse occurrences and medical complications and work with their patients, caregivers, pharmacists, and physicians to optimize rehabilitation and the return to daily living. For rehabilitation professionals, this essential reference provides an integrated understanding of medication use with nonpharmacologic therapies in rehabilitation patients.

## **Book Information**

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## **Customer Reviews**

Lynette L. Carl, BS, PharmD, BCPS, CP, is an assistant professor of clinical practice at the University of Florida College of Pharmacy and a clinical instructor in pharmacology at South University in Tampa, Florida. Previously, she worked as a clinical coordinator and assistant professor of pharmacy practice at Largo Medical Center in Largo, Florida. Carl has three decades of experience as a pharmacist and consultant pharmacist, including 13 years as a pharmacy

director and 15 years as an assistant director or clinical coordinator. In 1997, Carl became a board-certified pharmacotherapy specialist, the highest accomplishment for a clinical pharmacist. She has been practicing as a clinical pharmacist working with other health care practitioners since 1986. Carl has significant experience in developing clinical pharmacy programs to improve clinical pharmacy practice and patient care. She is a frequent presenter on medication use to professionals and students of many disciplines in health care. Carl is also coauthoring two texts on drugs and dysphagia. Carl is a member of the American College of Clinical Pharmacy, American Society of Health-System Pharmacists, Florida Society of Health-System Pharmacists, Southwest Society of Health-System Pharmacists, American Society for Parenteral and Enteral Nutrition, and the Florida Society for Parenteral and Enteral Nutrition. In her spare time, Carl enjoys traveling, snorkeling, fishing, and playing with her dogs. She and her husband, Randel Sturgeon, reside in Indian Rocks Beach, Florida.

Joseph A. Gallo, DSc, ATC, PT, earned his doctorate degree in sport physical therapy, his master's degree in physical therapy, and his bachelor of science degree in physical education and athletic training. He serves as director and associate professor of the athletic training program in the sport and movement science department at Salem State University in Salem, Massachusetts. Dr. Gallo has served as an adjunct faculty member in the Notre Dame College physical therapy program and Franklin Pierce University doctor of physical therapy program. He has been an instructor and director of rehabilitation for the Keene State College athletic training program in Keene, New Hampshire, and professor and director of the Hesser College physical therapist assistant program. Gallo also worked as a high school and college athletic trainer and delivered rehabilitation services in outpatient clinics, subacute settings, and in-home settings. Gallo has published his research in the *Journal of Orthopaedic & Sports Physical Therapy* and the *Chinese Journal of Sports Medicine*. He is a nationally recognized speaker who has presented over 300 courses to rehabilitation professionals throughout the United States. Gallo is currently a certified instructor for the VitalStim certification course teaching NMES for the treatment of dysphagia. He is also a United States Professional Tennis Association teaching professional, the founder and director of Summer's Edge Tennis School, and the men's tennis coach for Salem State University. Joe enjoys running, playing tennis, hiking, and camping with his wife, Gina. They live in Salem, Massachusetts.

Peter R. Johnson, PhD, CCC-SLP, earned his MS and PhD in speech-language pathology from the University of Pittsburgh and an executive graduate degree in health care financial management from Ohio State University. He has worked in acute-care hospitals, home care, outpatient clinics, and long-term care and has written numerous articles on rehabilitation. Johnson served as a column editor for the *American Speech-Language Hearing*

Association Special Interest Division (ASHA SID) 13 Dysphagia newsletter and for the ASHA SID 11 newsletter. He was on the executive board of the Florida Association of Speech-Language Pathologists and Audiologists. He was a three-time recipient of the President's Award and the Outstanding Service Award. Johnson has coauthored two books, *Business Matters: A Guide for the SLP* and *Drugs and Dysphagia: How Medications Affect Eating and Swallowing*. He is currently working on another book on cognition and dementia. Johnson has lectured at various hospitals and universities on the subject of cognition, dysphagia, and polypharmacy. He is currently the speech mentor for Select Medical Rehabilitation Services, where he develops continuing education programs as well as one-to-one mentoring. He is also the vice chair of the Florida Department of Health licensing board for speech-language pathologists and audiologists. Johnson is an adjunct faculty and dissertation chair for Nova Southeastern University. Johnson enjoys sailing, reading, and teaching. He and his wife, Joanne, live in Port Richey, Florida.

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