



# Encyclopedia of **Clinical Pharmacy**



edited by  
**Joseph T. DiPiro**

# **Encyclopedia of Clinical Pharmacy**



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**edited by**

**Joseph T. DiPiro**

*Panoz Professor of Pharmacy  
University of Georgia College of Pharmacy  
Athens, Georgia, U.S.A.*

*and*

*Clinical Professor of Surgery  
Medical College of Georgia  
Augusta, Georgia, U.S.A.*



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**Kathleen M. Bungay** | *The Health Institute, Boston, Massachusetts, U.S.A.*  
**Naomi Burgess** | *Society of Hospital Pharmacists of Australia, South Melbourne, Australia*  
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**Karim Anton Calis** | *National Institutes of Health, Bethesda, Maryland, U.S.A.*  
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**Charles E. Daniels** | *National Institutes of Health, Bethesda, Maryland, U.S.A.*  
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**Robert DeChristoforo** | *Virco Lab Inc., Rockville, Maryland, U.S.A.*  
**Joseph H. Deffenbaugh** | *American Society of Health-System Pharmacists, Bethesda, Maryland, U.S.A.*  
**Joseph T. DiPiro** | *University of Georgia College of Pharmacy, Athens, Georgia, U.S.A.*  
**Alfonso Domínguez-Gil** | *Hospital Universitario de Salamanca, Salamanca, Spain*  
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**Eduardo Echarri Arrieta** | *Sociedad Española de Farmacia Hospitalaria, La Coruña, Spain*  
**Robert M. Elcnbaas** | *American College of Clinical Pharmacy, Kansas City, Missouri, U.S.A.*  
**Mary Ensom** | *BC's Children's & Women's Hospital, Vancouver, British Columbia, Canada*  
**Susan C. Fagan** | *University of Georgia College of Pharmacy, Athens, Georgia, U.S.A.*  
**Bill G. Felkey** | *Auburn University, Auburn, Alabama, U.S.A.*  
**Donald J. Filibeck** | *Mt. Carmel Home Infusion, Columbus, Ohio, U.S.A.*  
**Benet Fité Novellas** | *Pharmacist, Barcelona, Spain*  
**Annemieke Floor-Schreuderling** | *European Society of Clinical Pharmacy, Leiden, The Netherlands*  
**Brent I. Fox** | *Auburn University, Auburn, Alabama, U.S.A.*  
**George E. Francisco** | *University of Georgia College of Pharmacy, Athens, Georgia, U.S.A.*  
**John A. Gans** | *American Pharmaceutical Association, Washington, D.C., U.S.A.*  
**Steven Gelone** | *Temple University, Philadelphia, Pennsylvania, U.S.A.*  
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**Catherine A. Heyneman** | *Idaho State University, Pocatello, Idaho, U.S.A.*  
**Teresa J. Hudson** | *Veterans Affairs Medical Center, North Little Rock, Arkansas, U.S.A.,*  
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## Foreword

Everyone reading this foreword already knows that clinical pharmacy is evidence-based. Those in the field rely heavily on therapeutics textbooks, drug information compendia, journal articles, and the World Wide Web as critical sources of information and knowledge to guide their patient care and research decisions. So what can a resource like the *Encyclopedia of Clinical Pharmacy* add to the growing (and some might say already overcrowded) library of professional literature?

This encyclopedia is not intended to be a textbook of therapeutics or a compendium of drug information. Rather, its goal is to document information about key people, events, publications, legislation, regulations, and the myriad of things other than therapeutics per se that shape what clinical pharmacists do, why they do it, and how they do it. It was this opportunity that convinced the American College of Clinical Pharmacy and the American Society of Health-System Pharmacists to partner with Marcel Dekker, Inc. in this unique project.

Although efforts to publish the *Encyclopedia of Clinical Pharmacy* began in early 1999, its true origins lie in the pioneering work of visionary pharmacists like Donald Brodie, Donald Francke, Paul Parker, Harvey A. K. Whitney, and others in the 1950s, '60s, and '70s. They foresaw the increasing complexity of pharmacotherapy, the problems of medication-related morbidity and mortality, and the impact that clinically empowered pharmacists have on assuring safe and effective pharmaceutical care for patients. The *Encyclopedia of Clinical Pharmacy*—in print and online—is designed to be a dynamic resource that will expand as future events unfurl and as time allows a more complete documentation of important past contributions and contributors. Thus, as clinical pharmacy continues to evolve, so will the *Encyclopedia*.

Robert M. Elenbaas, Pharm.D., FCCP  
*Executive Director*  
*American College of Clinical Pharmacy*  
*Kansas City, Missouri, U.S.A.*

Henri R. Manasse, Jr., Ph.D., Sc.D.  
*Executive Vice President and Chief Executive Officer*  
*American Society of Health-System Pharmacists*  
*Bethesda, Maryland, U.S.A.*



# Preface

The term “clinical pharmacy” has come to describe a wide range of pharmacy practices that occur in a variety of settings, including health-systems, community pharmacies, clinics, pharmaceutical industry, and government agencies. Clinical Pharmacy incorporates the patient-oriented practices of pharmaceutical care as well as drug policy management, research, education, and many other aspects within the field. As the scope of clinical pharmacy has grown, it has been less easy to capture in a simple definition. The range of topics included in the *Encyclopedia of Clinical Pharmacy* attest to the complexity and expansion of the clinical pharmacy practice.

The *Encyclopedia of Clinical Pharmacy* is a valuable resource for today’s clinical pharmacist and pharmacist. Practitioners require a large set of information on diverse topics to effectively conduct their practices. While some of this information can be obtained from drug information compendia, therapeutics textbooks, and primary literature reports, these sources do not thoroughly address the different dimensions of knowledge and information required by clinical pharmacists. The *Encyclopedia of Clinical Pharmacy* assembles information for practicing clinical pharmacists and students not found in disease-oriented or drug-oriented resources, and provides information and insights to topics and issues that relate to clinical pharmacy practice.

All entries in the *Encyclopedia* have been written by experts in their fields and reviewed by appropriate subject matter authorities. Categories of clinical pharmacy-related topics included in the *Encyclopedia* are:

- Important reports, position papers, and consensus statements.
- Clinical pharmacy practices and models of health service delivery.
- State-of-the-art practices in selected, rapidly changing areas of pharmaceutical and medical sciences, or allied fields.
- Federal and state agencies and pharmacy-related organizations.
- Relevant legal issues and court decisions.
- Processes, methods, and guidelines impacting clinical researchers.
- Biographies of leaders and innovators in clinical pharmacy.
- Educational and training programs.

The *Encyclopedia* is available in a printed text and an online version. The online version includes everything in the print version while also providing the convenience of a keyword search engine. New articles and revised articles will be digitally posted quarterly and available to all subscribers of the electronic version as soon as available. Although the content will initially parallel the print version, unique electronic enhancements will be available on the online version.

The intended audience for the *Encyclopedia* is clinical pharmacists and pharmacy students throughout the world. The *Encyclopedia* should become an essential resource for libraries and drug information centers as well as for personal libraries. The *Encyclopedia* will also be of interest to other health care practitioners and students who wish to learn about clinical pharmacy practice. The *Encyclopedia’s* international Editorial Advisory Board represents the United States, Canada, Australia, the United Kingdom, Germany, Spain, Switzerland, and Japan.

This project was begun with the intent of representing clinical practice expertise emanating from two major organizations, the American College of Clinical Pharmacy (ACCP) and the American Society of Health-System Pharmacists (ASHP). Robert Elenbaas from ACCP and Richard Talley from ASHP have been particularly helpful in marshalling the expertise within their organizations to contribute to the *Encyclopedia*. The completion of this project was only possible through the sound advice and contributions of the *Encyclopedia of Clinical Pharmacy’s* international Editorial Advisory Board, contributors, and the competent and diligent efforts of the staff at Marcel Dekker, Inc. In particular, the efforts of Carolyn Hall, Ellen Lichtenstein, and Alison Cohen have been much appreciated.

Joseph T. DiPiro



# **Encyclopedia of Clinical Pharmacy**

