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**ACCESSPHARMACY**  
A Comprehensive Resource for Pharmacy Education

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**Browse by Curricular Topic** [See a full listing of site resources](#)

-  **Clinical Sciences**  
Pharmacotherapy, Drug Information, Medication Dispensing...
-  **Social, Behavioral, & Administrative Pharmacy Sciences**  
Pharmacy Law, Ethics, Pharmacoepidemiology, Pharmacoeconomics...
-  **Pharmaceutical Sciences**  
Extemporaneous Compounding, Toxicology, Pharmacogenomics, Bioanalysis...
-  **Basic Biomedical Sciences**  
Anatomy and Physiology, Microbiology, Biostatistics, Immunology...

 **Browse by Organ Systems**

[www.AccessPharmacy.com](http://www.AccessPharmacy.com)

**AccessPharmacy** is an online curricular resource designed to meet the changing demands of pharmacy education. A flexible resource, **AccessPharmacy** allows students to select a **core curriculum topic**, browse by **organ system**, review **textbooks**, or **search** across leading pharmacy online references.

- *Pharmacotherapy: A Pathophysiologic Approach*, 6th edition
- *Pharmacotherapy Casebook*, 6th edition
- *Goodman & Gilman's The Pharmacological Basis of Therapeutics*, 11th edition
- *Harrison's Principles of Internal Medicine*, 16th edition
- *Applied Biopharmaceutics & Pharmacokinetics*, 5th edition
- *Basic & Clinical Biostatistics*, 4th edition
- *Basic & Clinical Pharmacology*, 10th edition
- *Casarett & Doull's Essentials of Toxicology*
- *Clinical Ethics: A Practice Approach to Ethical Decisions in Clinical Medicine*, 6th edition
- *Drug Information: A Guide for Pharmacists*, 3rd edition
- *Harper's Illustrated Biochemistry*, 27th edition
- *Medical Epidemiology*, 4th edition
- *Pathophysiology of Disease: An Introduction to Clinical Medicine*, 5th edition
- *Pharmaceutical Care Practice: The Clinician's Guide*, 2nd edition
- *Pharmacoepidemiology: Principles & Practice*
- *Pharmacy and Federal Drug Law Review*
- *Pocket Guide to Diagnostic Tests*, 4th edition
- *Quick Review Pharmacy*, 13th edition
- *Review of Medical Physiology*, 22nd edition
- *Understanding Health Policy: A Clinical Approach*, 4th edition

# Editor-in-Chief

## Terry L. Schwinghammer, PharmD



Dr. Terry L. Schwinghammer is Professor and Chair, Department of Clinical Pharmacy, West Virginia University School of Pharmacy. In this capacity, he is responsible for directing the department's missions in the areas of teaching, patient care, scholarship, and service. He was previously Professor of Pharmaceutical Sciences at the University of Pittsburgh School of Pharmacy. Dr. Schwinghammer received BS and PharmD degrees from Purdue University and completed a pharmacy residency at Indiana University Hospitals.

His teaching focuses on the development of clinical and communication skills, case-based learning, and nonprescription drug therapy. While at the University of Pittsburgh, he was named either Teacher of the Year or Faculty Member of the Year on five occasions.

He is a Board Certified Pharmacotherapy Specialist and has practiced in adult inpatient pharmacotherapy and ambulatory care. He is a past recipient of the American Pharmacists Association-APPM Distinguished Achievement Award in Clinical/Pharmacotherapeutic Practice. In 2006, he was named a Distinguished Practitioner in the National Academies of Practice.

In addition to authoring over 60 research papers and journal articles, he is editor of The Pharmacotherapy Casebook, McGraw-Hill, and co-editor of The Pharmacotherapy Handbook, McGraw-Hill. These books are widely used by pharmacy students and practitioners, and both are in their sixth editions. He is also an editor of the new textbook Pharmacotherapy Principles & Practice (2007). He serves as Senior Contributing Editor, Therapeutics, for The American Journal of Health-System Pharmacy.

Dr. Schwinghammer has been active in the American Association of Colleges of Pharmacy (AACP), the American Society of Health-System Pharmacists (ASHP), the Pennsylvania Society of Health-System Pharmacists (PSHP), the American College of Clinical Pharmacy (ACCP), and the Board of Pharmaceutical Specialties (BPS). He has served the AACP as Chair of the Pharmacy Practice Section, Chair of the Council of Faculties, and member of the Board of Directors. He is a past president of the PSHP and was named Pharmacist of the Year in 2001. He is currently Vice-Chair of the BPS and Chair of the BPS Finance Committee. He is a Fellow of ACCP and ASHP and has been elected to membership in the Rho Chi Pharmaceutical Honor Society and the Phi Lambda Sigma Pharmacy Leadership Society. He was named a Distinguished Alumnus of Purdue University in 2004.

The screenshot shows the McGraw-Hill AccessPharmacy website interface. At the top, there is a navigation bar with links for Home, Curricular Topics, Organ Systems, Textbooks, Drugs, Lab Tests, Calculators, Self-Assessment, Cases & My Care Plans, and My Saved Images. A search bar is present with the text 'gout and hyperuricemia' and a search button. Below the search bar, the breadcrumb trail reads: 'Goodman & Gilman's The Pharmacological Basis of Therapeutics > IV. Autacoids: Drug Therapy of Inflammation > Chapter 26. Analgesic-Antipyretic and Antiinflammatory Agents; Pharmacotherapy of Gout'. The authors listed are Anne Burke, Emer Smyth, and Garret A. FitzGerald. The page is divided into sections: 'Sections in this chapter:' with a list of links for various drug classes; 'PHARMACOTHERAPY OF GOUT' with a detailed text description of the condition and its treatment; and 'Treatment of Acute Gout' with specific recommendations for NSAIDs and uricosuric agents. The text describes the pathophysiology of gout, the role of uric acid, and the goals of treatment, including the use of NSAIDs like ibuprofen and celecoxib, and uricosuric agents like probenecid and sulfapyrazone.

## Case studies, Care Plans, and Self-Assessment

To help develop and track key skills, integrated **case studies**, **care plans**, **self-assessment**, and **NAPLEX review** provide critical feedback for students and teachers.

The screenshot shows a web page titled "Acute Myocardial Infarction" with a navigation menu on the left and a main content area. The left menu lists various conditions under "Pharmacotherapy Casebook: A Patient-Focused Approach", with "Acute Myocardial Infarction" highlighted. The main content area has three tabs: "THE CASE", "READ/ANSWER CASE QUESTIONS", and "WRITE A CARE PLAN". The "THE CASE" tab is active, displaying a login prompt, the case title "Acute Myocardial Infarction Not Just for Men Alone (Level II)", authors, and learning objectives. Below the objectives are sections for "PATIENT PRESENTATION", "Chief Complaint", and "HPI".

**Pharmacotherapy Casebook: A Patient-Focused Approach**

- Cardiovascular Disorders:
  - Acute Myocardial Infarction
  - Atrial Fibrillation
  - Cardiopulmonary Resuscitation
  - Chronic Anticoagulation
  - Deep Vein Thrombosis
  - Heart Failure
  - Hyperlipidemia: Primary Prevention
  - Hyperlipidemia: Secondary Prevention
  - Hypertension
  - Hypertensive Urgency/Emergency
  - Hypertrophic Cardiomyopathy
  - Hypovolemic Shock
  - Ischemic Heart Disease and Acute Coronary Syndrome
  - Ischemic Stroke
  - Obstructive Sleep Apnea and Hypertension
  - Peripheral Vascular Disease
  - Pulmonary Embolism
  - Ventricular Tachycardia

**See also on AccessPharmacy:**

- Chapter 16. Acute Coronary Syndromes in Pharmacotherapy: A Pathophysiologic Approach
- myocardial infarction, acute

**Acute Myocardial Infarction**

**THE CASE** | **READ/ANSWER CASE QUESTIONS** | **WRITE A CARE PLAN**

Please log in (or create a personal account if you don't have one) if you wish to write care plans and save answers for Case Questions. [Email] [Print]

**Acute Myocardial Infarction**  
**Not Just for Men Alone (Level II)**  
Kelly C. Rogers, PharmD, Robert B. Parker, PharmD, FCCP

After completing this case study, students should be able to:

- Determine the goals of pharmacotherapy for acute MI patients.
- Design an optimal therapeutic plan for management of acute MI and describe how the selected drug therapy achieves the therapeutic goals.
- Identify appropriate parameters to assess the recommended drug therapy for both efficacy and adverse effects.
- Provide appropriate patient education information to an acute MI patient.

**PATIENT PRESENTATION**

**Chief Complaint**

"I'm having burning pain in my chest. It feels like really bad heartburn."

**HPI**

Lorraine Hunt is a 65 yo woman transported by paramedics to the ED of her local community hospital with severe burning, substernal chest pain for the last 3 hours. She states she was fine until about an hour

## Useful tools

**Functional calculators**, **lab test information**, and an **integrated drug database** provide clinical relevance, while **daily news** from Pharmacotherapy News Network (PNN) and **monthly updates** from the editors of *Goodman & Gilman's* ensure currency.

## Other features:

- Over **150 drug-therapy cases** with **Q&A** and **care plans** that students can complete and submit to faculty. A secure instructor's guide with answer key is available to course directors.
- Over **14,000** pages of content.
- Over **500** curricular topics from the **core curriculum**.

The screenshot shows a "Browse by Curricular Topics" page. It features a sidebar with a list of categories: "Clinical Sciences >", "Social, Behavioral, & Administrative", "Pharmacy Sciences", "Pharmaceutical Sciences", and "Basic Biomedical Sciences". The main content area is titled "Clinical Sciences" and lists several sub-topics, each with a plus sign icon to indicate expandability. The sub-topics include "Pharmacy Practice and Pharmaceutical Care", "Medication Dispensing and Distribution Systems", and "Pharmacotherapy". Under "Pharmacotherapy", there is a list of 15 specific topics, such as "Evidence-based practice", "Pharmacotherapy of cardiovascular disorders", and "Pharmacotherapy of eyes, ears, nose, and throat disorders".

**Browse by Curricular Topics**

Find content on our site using this list of topics derived from the ACPE Core Curriculum.

**Clinical Sciences >**

- Social, Behavioral, & Administrative
- Pharmacy Sciences
- Pharmaceutical Sciences
- Basic Biomedical Sciences

**Clinical Sciences**

- + Pharmacy Practice and Pharmaceutical Care
- + Medication Dispensing and Distribution Systems
- + Pharmacotherapy
  - Evidence-based practice
  - Pharmacotherapy of cardiovascular disorders
  - Pharmacotherapy of respiratory disorders
  - Pharmacotherapy of gastrointestinal disorders
  - Pharmacotherapy of renal disorders
  - Pharmacotherapy of neurologic disorders
  - Pharmacotherapy of psychiatric disorders
  - Pharmacotherapy of endocrine disorders
  - Pharmacotherapy of gynecologic and obstetric disorders
  - Pharmacotherapy of urologic disorders
  - Pharmacotherapy of immunologic disorders
  - Pharmacotherapy of bone and joint disorders
  - Pharmacotherapy of eyes, ears, nose, and throat disorders

- Separate **organ-system based mapping** allows users to browse by **organ system**.
- Six **functional calculators** focused on unit conversions and body weight.
- **Interactive Q&A** with over 4,000 questions mapped to the core curriculum; the number of tests taken and last score are recorded with an option to email results.


**Self-Assessment**


Please [sign in](#) to take a test. This allows us to tally your test scores for you and offer you other features such as emailing your results to your professors.

**Choose a Test Topic** Where do the test questions come from?

<p><b>Clinical Sciences</b></p> <ul style="list-style-type: none"> <li>- Drug Information</li> <li>- Literature Evaluation and Research Design</li> <li>- Medication Dispensing and Distribution Systems</li> <li>- Medication Safety</li> <li>- Patient Assessment: History, Physical, and Laboratory Evaluation</li> <li>- Pharmacotherapy</li> <li>- Pharmacy Practice and Pharmaceutical Care</li> <li>- Special Populations: Pharmaceutical Care</li> </ul> <p><b>Social, Behavioral, &amp; Administrative Pharmacy Sciences</b></p> <ul style="list-style-type: none"> <li>- Economics and Pharmacoeconomics</li> <li>- Ethics</li> <li>- Health Care Delivery Systems</li> <li>- History of Pharmacy</li> <li>- Pharmacoepidemiology</li> </ul>	<p><b>Pharmaceutical Sciences</b></p> <ul style="list-style-type: none"> <li>- Bioanalysis and Clinical Chemistry</li> <li>- Extemporaneous Compounding, Parenteral Products, and Enteral Products</li> <li>- Medicinal Chemistry</li> <li>- Pharmaceutics and Biopharmaceutics</li> <li>- Pharmacogenomics and Pharmacogenetics</li> <li>- Pharmacognosy, Alternative, and Complementary Treatments</li> <li>- Pharmacokinetics</li> <li>- Pharmacology</li> <li>- Toxicology</li> </ul> <p><b>Basic Biomedical Sciences</b></p> <ul style="list-style-type: none"> <li>- Anatomy and Physiology</li> <li>- Biochemistry and Biotechnology</li> <li>- Biostatistics</li> <li>- Immunology</li> <li>- Microbiology</li> <li>- Molecular Biology and Genetics</li> </ul>
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**NAPLEX Review:**


 **Take a test** using questions from *Quick Review Pharmacy* by Joyce A. Generali & Christine A. Berger


 **Take a test** using questions from *Pharmacy and Federal Drug Law Review* by David C. Kosegarten & Douglas J. Paisano


**Additional Review:**

The following resources include **essay-style** questions within their content that may be used for study and self-assessment purposes.

 Understanding Health Policy: A Clinical Approach

 Basic & Clinical Biostatistics

 Pathophysiology of Disease: An Introduction to Clinical Medicine

 Applied Biopharmaceutics &

- Dedicated **NAPLEX review** from *Quick Review Pharmacy* and *Pharmacy and Federal Drug Law Review*
- **Extensive glossary** of over 1,000 terms.
- Integrated **drug database**, updated in real-time, that provides complete chemical structure and dosing information; adverse reactions; indications and contraindications; patient education in English and Spanish; and full-color photos of all formulations.
- **"Drug of the Week" quiz** that tests the ability to visually identify the top **200 brand-name drugs**.
- Detailed drug interaction **animations** adapted from **Goodman & Gilman's The Pharmacological Basis of Therapeutics**.
- **Updated regularly!**

**Available Soon:**

- Featured virtual case with interactive decision-making.
- Complete text and illustrations of *Jawetz, Melnick, & Adelberg's Medical Microbiology*.
- New calculators, including creatinine clearance, to be added after launch.

[www.AccessPharmacy.com](http://www.AccessPharmacy.com)

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