



## ***Understanding Pharmacology for Pharmacy Technicians***

***By Mary Ann Stuhan, PharmD, RPh***

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### **[REVIEWER'S EXPERT OPINION]**

Lawrence P Carey, BS, PharmD (Temple University School of Pharmacy)

#### **Description**

The better educated technicians are, the more helpful they will be to supervising pharmacists. This book, designed to do just that, is a joy to read in terms of completeness as well as visual appeal. The tables at the end of each chapter add to its comprehensive nature.

#### **Purpose**

The purpose is to give pharmacy technicians a very broad and complete overview of the drugs they handle on a daily basis. This book is a welcome addition, as there is a dearth of books specifically written at an appropriate level for pharmacy technicians.

#### **Audience**

Although specifically targeted at pharmacy technicians, this book has the potential to help other audiences as well, such as LPNs, medical coders, and medical assistants. The author, the director of a technician program, is certainly credible, qualified, and knowledgeable about what technicians need to know.

#### **Features**

The book is organized in a modular format, for the most part by body system, ranging from the nervous and musculoskeletal system through the heart/lungs/abdomen, and ends with specific disciplines of pharmacy such as infectious disease and oncology. I particularly like the case questions in the margins and the summary tables at the end of each chapter (although there are some typographical errors in brand names of products, such as some nutritional supplements on p. 515). I also like the "practice points" that appear throughout, which will assist readers. The book is easy to read, although there are many pages with no illustrations, which may be a problem for visual learners.

#### **Assessment**

This book is well done. It is written at a higher level than other pharmacy/pharmacology books, which I consider to be an advantage. It is pleasing to read and is a very complete,

useful reference. I teach in an allied health program that requires pharmacology and have yet to find a suitable textbook that is inclusive, well written, error free, and visually appealing. I would consider replacing the one I currently use (***Essentials of Pharmacology for Health Occupations***, 6th edition, Woodrow et al. (Delmar Cengage Learning, 2010) with this one, even though I do not teach technicians -- it is that good.

**Weighted Numerical Score: 85 - 3 Stars**



### ***Understanding Pharmacology for Pharmacy Technicians (with workbook)***

***By Mary Ann Stuhan***

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#### **Canadian Journal of Hospital Pharmacy**

Mary Ann Stuhan has compiled this set of pharmacology learning tools to help pharmacy technicians acquire knowledge to meet the accreditation standards of the American Society of Health-System Pharmacists and to aid in preparation for the US Pharmacy Technician Certification Board examination. Contributors and reviewers include clinical pharmacotherapy experts, pharmacy professors, pharmacy managers, and instructors and directors of pharmacy technician and technology programs. Appropriately, the textbook opens with a chapter examining the practical and theoretical benefits of pharmacy technicians having an understanding of pharmacology.

The remainder of the textbook contains 34 chapters organized by body systems. In addition to explaining disease processes, goals of therapy, and the pharmacology of medications used to treat various health conditions, the text expands on terms and definitions, includes tables outlining pharmacotherapy, and offers review questions and references at the end of each chapter. If an introduction to a particular body system is required to understand the pharmacology concepts, labelled colour pictures are provided to clarify the relevant anatomy and physiology. The text also provides clinical vignettes to help technicians understand the patient's perspective. Safety alerts and practice points highlight clinical, administrative, and product selection pearls. The layout makes the textbook easy to read. The content is indexed, and the main text links well to the accompanying workbook. Instructor resources (PowerPoint slides) are also available; however, they offer none of the practical aspects or practice points from the textbook and workbook, and rarely include helpful images to engage the viewer. Despite the visually pleasing layout of both the textbook and the workbook, references to the policies of US drug regulatory authorities, as well as US brand names and manufacturers, limit the utility of this package for Canadian pharmacy technicians. In addition, many chapters provide anatomic, physiologic, or pharmacokinetic complexity that may exceed the needs or interests of technicians.

For example, the description of pharmacokinetic concepts includes complex equations requiring scientific calculators and an advanced proficiency in mathematics. Each chapter contains multiple cases and associated questions; however, the layout makes it difficult to link the questions to particular cases. Appropriate auxiliary labelling and

suggestions for handling medications would increase the practicality and applicability for technicians in the workplace. This text and its associated workbook could serve as a resource for pharmacy technicians challenging licensing or qualifying examinations. It might also be useful for undergraduate students interested in exploring a career in pharmacy or as an addition to a pharmacy technician library, for reference or teaching purposes. Overall, this set of learning tools is best utilized together, as the workbook greatly increases relevance and practicality for a working pharmacy technician.

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