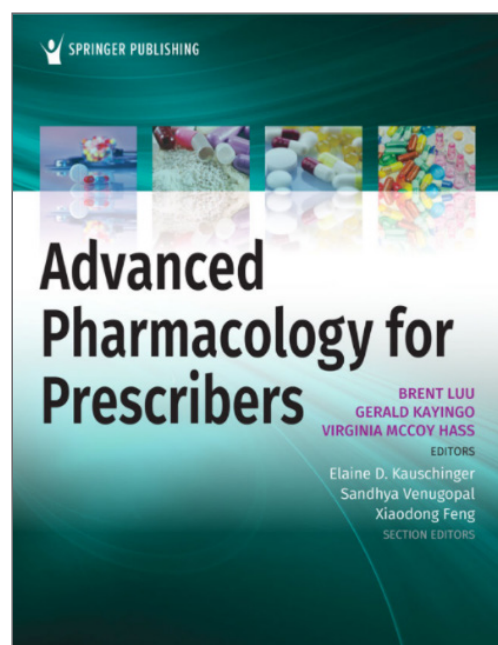


# Advanced Pharmacology for Prescribers

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**Authors:** Brent Luu, Gerald Kayingo, Virginia McCoy Hass  
**Title:** Advanced Pharmacology for Prescribers  
**Year:** 2021  
**Publisher:** Springer Publishing Company, LLC  
**ISBN:** 978-0826195463  
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Pharmacology is relevant to all fields of science and is an essential field that every medical professional includes nurses, doctors, and various specialists should know. Today there are thousands of drugs on the market able to prevent, treat and lessen the impact of ailments that would have been fatal just a few generations ago. Therefore, pharmacology must be learned. Pharmacology is difficult to understand, but there are many books and manuals to help, one of which is this book.

Advanced Pharmacology for Prescribers—an evidence-based pharmacology book for students and clinicians—is a unique resource that guides users in analyzing the foundations of drug therapy.

Advanced Pharmacology for Prescribers's cases in each chapter are designed to help consolidate and deepen knowledge. The most interesting chapter is about pharmacogenetic and pharmacogenomic which are included the variations of enzymes in drug metabolism, transporters, and immune system functions.

The New Edition Advanced Pharmacology for Prescribers is divided into three parts:

- The first part addresses Foundation of pharmacology and prescribing, offers background rationale on why drug treatments are recommended and pharmacokinetics/pharmacodynamics, pharmacogenomics provide the basic principles of genetic variations in response to pharmacotherapy and adverse drug reactions. Drug-therapy prescribing in special populations describe age, pregnancy or breastfeeding, race, hepatic and renal functions are influence the risk of drug injury, thus compelling prescribers to be particularly cautious when selecting, dosing, and monitoring medications. This chapter presents principles, practical guidance, and tools to support appropriate prescribing for commonly encountered special populations.
- The second part: System-Specific and Patient-Focused Prescribing - the pharmacotherapies of the most common conditions of organ system are discussed. In this part includes chapters on renal, acid-base, and fluid and electrolyte disorders; cardiovascular, respiratory, genitourinary and endocrine disorders; men's and women's health conditions; and transgender care. Immunology and vaccines and

antimicrobial and antiviral pharmacotherapy are examined, as well as psychopharmacology, integrative health, and pain management. Antiretroviral and antimicrobial pharmacotherapy help the reader to define the importance of antibiotic stewardship, and describe the activity of antivirals and antifungal agents. The treatment guidelines from various organizations are included for prescribers to apply and implement drug treatments accordingly.

- The third part: Health Promotion and Maintenance concludes with a focus on health promotion and maintenance, helping clinicians to treat patients and educate them on how to lead healthier lives. Topics such as treatment of substance use disorders, over-the-counter medications, and treatment of obesity are discussed. The chapter outlines the various over-the-counter products available to treat common skin and hair conditions, and summarizes the available supplements, both pill and liquid preparations, that support nutritional needs.

All chapters provide background or information, clinical pearls, key takeaways and case exemplars that are will summarize what you have read and will be helpful for further treatment. The information presented in each chapter is evidence-based and relevant to daily clinical practice.

In the end, the book also provides convenient references for further reading. This book help targeting the specific needs of nurses and physician assistant students and clinicians and a “bridge” between standard and lack information regarding key pharmacotherapy principles.

The book is created with a patient-centered approach, organizing the chapters in a manner designed to enhance patient outcomes and benefits. We hope you enjoy using the book as much as authors enjoyed creating it.