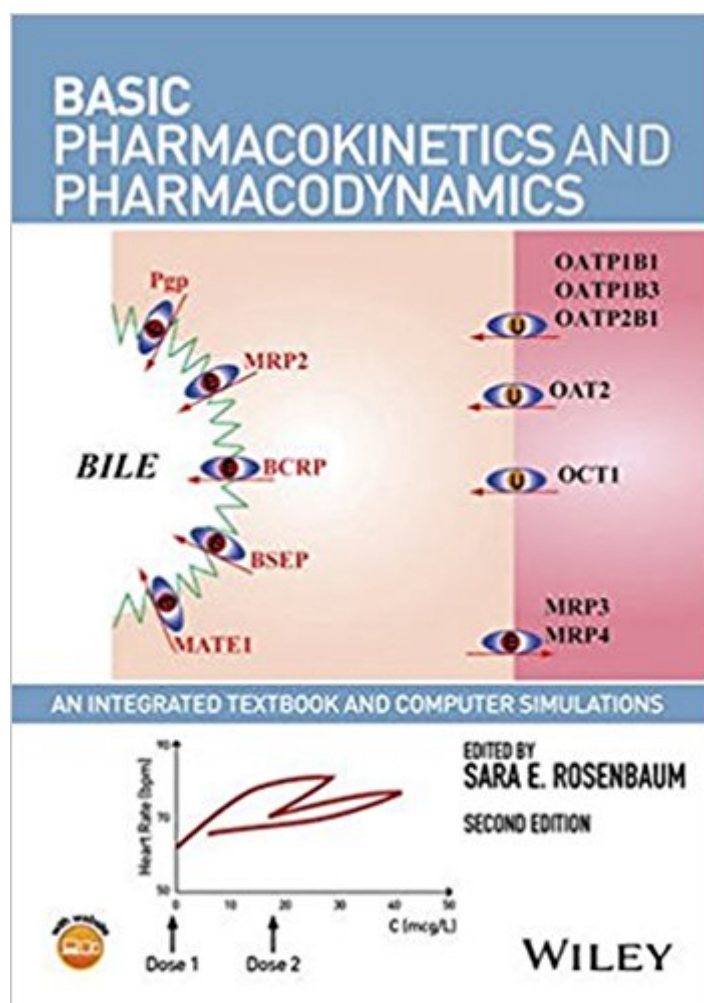


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# Basic Pharmacokinetics And Pharmacodynamics: An Integrated Textbook And Computer Simulations



## Synopsis

Updated with new chapters and topics, this book provides a comprehensive description of all essential topics in contemporary pharmacokinetics and pharmacodynamics. It also features interactive computer simulations for students to experiment and observe PK/PD models in action.

Presents the essentials of pharmacokinetics and pharmacodynamics in a clear and progressive manner

Helps students better appreciate important concepts and gain a greater understanding of the mechanism of action of drugs by reinforcing practical applications in both the book and the computer modules

Features interactive computer simulations, available online through a companion website at: <http://www.uri.edu/pharmacy/faculty/rosenbaum/basicmodels.html>

Adds new chapters on physiologically based pharmacokinetic models, predicting drug-drug interactions, and pharmacogenetics while also strengthening original chapters to better prepare students for more advanced applications

Reviews of the 1st edition: "This is an ideal textbook for those starting out and also for use as a reference book." (International Society for the Study of Xenobiotics) and "I could recommend Rosenbaum's book for pharmacology students because it is written from a perspective of drug action . . . Overall, this is a well-written introduction to PK/PD." (British Toxicology Society Newsletter)

## Book Information

Paperback: 576 pages

Publisher: Wiley; 2 edition (December 27, 2016)

Language: English

ISBN-10: 1119143152

ISBN-13: 978-1119143154

Product Dimensions: 6.9 x 1.1 x 9.9 inches

Shipping Weight: 2.2 pounds (View shipping rates and policies)

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Reviews of the First Edition: "I could recommend Rosenbaum's book for

pharmacology students because it is written from a perspective of drug action . . . Overall, this is a well-written introduction to PK/PD that may fill a small niche in a well-served market. " (British Toxicology Society Newsletter, 1 June 2012) "In summary, I believe that this book is successful in what it sets out to do. For those readers who are interested in getting to grips with the basics of the time course of onset, offset and extent of drug effects then this is the book for you. I am certainly recommending this book for my graduate students." (British Journal of Clinical Pharmacology, 2011) Scientists working in pharmacokinetics and pharmacodynamics (PK and PD) study the behavior of drugs in the body. This includes how drugs are absorbed into the body, where they go, what they do, and how the body gets rid of them. Models can be applied to help understand these processes. The combined subject of PK/PD is an important component of the education of health professionals and research scientists involved with drugs. Updated with new chapters and topics, the new edition of Basic Pharmacokinetics and Pharmacodynamics; presents the essentials of PK / PD in a clear and coordinated manner. Maintaining its clear and straightforward presentation, the text enables you to understand the dose-response relationship and dosing regimen design. Your understanding of the material will be enhanced by guided computer exercises available on a companion website, which makes the book ideal for self-study. Simulations will allow you to visualize drug behaviour, experiment with different dosing regimens, and observe the influence of patient characteristics and model parameters. The second edition updates and strengthens existing chapters and adds new topics to address newer applications of pharmacokinetics in clinical practice and drug development, including physiologically based pharmacokinetic modeling and the prediction of drug-drug interactions. Because Basic Pharmacokinetics and Pharmacodynamics, 2nd Edition is an introductory textbook, the material is presented as simply as possible. As a result, you'll find it easy to gain an understanding of all the core principles, apply them to understand drug dosages, drug-drug interactions, and to evaluate the literature on clinical pharmacokinetics and pharmacodynamics.

Sara E. Rosenbaum, PhD, is Professor of Biomedical and Pharmaceutical Sciences at the University of Rhode Island, where she teaches courses in pharmacokinetics and pharmacodynamics. Her research interests concentrate on the development and application of pharmacokinetic and pharmacodynamic models to better understand the drug dose-response relationship.

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