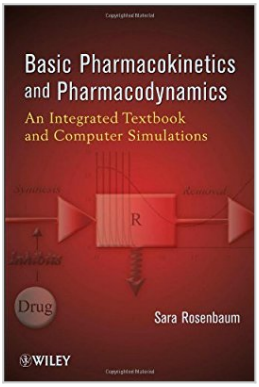

Basic Pharmacokinetics and Pharmacodynamics: An Integrated Textbook and Computer Simulations

By Sara E. Rosenbaum

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With its clear, straightforward presentation, this text enables you to grasp all the fundamental concepts of pharmacokinetics and pharmacodynamics. This will allow you to understand the time course of drug response and dosing regimen design. Clinical models for concentration and response are described and built from the basic concepts presented in earlier chapters. Your understanding of the material will be enhanced by guided computer exercises conducted on a companion website. Simulations will allow you to visualize drug behavior, experiment with different dosing regimens, and observe the influence of patient characteristics and model parameters. This makes the book ideal for self-study.

By including clinical models of agonism, indirect drug effects, tolerance, signal transduction, and disease progression, author Sara Rosenbaum has created a work that stands out among introductory-level textbooks in this area.You'll find several features throughout the text to help you better understand and apply key concepts:

- Three fictitious drugs are used throughout the text to progressively illustrate the development and application of pharmacokinetic and pharmacodynamic principles
- Exercises at the end of each chapter reinforce the concepts and provide the opportunity to perform and solve common dosing problems
- Detailed instructions let you create custom Excel worksheets to perform simple pharmacokinetic analyses

Because this is an introductory textbook, the material is presented as simply as possible. As a result, you'll find it easy to gain an accurate, working knowledge of all the core principles, apply them to optimize dosing regimens, and evaluate the clinical pharmacokinetic and pharmacodynamic literature.

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- 448 pages

Editorial Review

Review

“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)

"A readable font size, good quality paper and a stout binding make this an excellent offering ... This is an ideal textbook for those starting out on the pharmacokinetic trail and also for use as a reference book for those who delve occasionally into this subject." (*International Society for the Study of Xenobiotics*, 1 April 2012)

"In short, this is a thorough and well-designed presentation and development of key concepts in pharmacokinetics and pharmacodynamics. It is a very useful textbook, and one that I would be comfortable using in both medical and graduate teaching." (*Doody's*, 21 October 2011)

Review
"Unlike other basic textbooks that cover only pharmacokinetics, the author has done justice to the title of the book by covering pharmacodynamics. Pharmacodynamics is covered in greater depth than other books in the same category. What makes the book to stand out is that the author has nicely blended the concepts of receptor theory from classical pharmacology with the modern science of PK/PD.... The book truly helps readers to understand the science of pharmacokinetics and drug action. The Excel-based simulation exercises incorporated into the text helps the reader to put his/her learning into practice, albeit in a virtual environment.... The book is strongly recommended for use in undergraduate studies of PK/PD, and by those in drug research interested in having a basic understanding of the science of PK/PD."
—**Ene Ette**, PhD, Anoixis Corporation

"Sara Rosenbaum's book is a thoroughly modern approach to pharmacokinetics and pharmacodynamics. It is well written and well thought out – a blend of pharmacokinetic-pharmacodynamic theory and modeling/analysis concepts. The pharmacodynamic models are up to date with recent advances in the field, such as tolerance, indirect, and basic disease progression models, being presented. The web page simulations were fun to play around with allowing the user to change the model parameters and see how the results change. Rather than being a dry subject with just endless equations, the connection between the web-based simulations and the book allows the reader to be engaged and understand the subject with greater ease."
—**Peter L. Bonate**, PhD, author of *Pharmacokinetic-Pharmacodynamic Modeling and Simulation*

From the Back Cover
Interactive Computer Simulations Enable You to Quickly Learn and Apply New Skills

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Users Review

From reader reviews:

Neil Williams:

The feeling that you get from Basic Pharmacokinetics and Pharmacodynamics: An Integrated Textbook and Computer Simulations is the more deep you searching the information that hide within the words the more you get enthusiastic about reading it. It does not mean that this book is hard to understand but Basic Pharmacokinetics and Pharmacodynamics: An Integrated Textbook and Computer Simulations giving you thrill feeling of reading. The writer conveys their point in specific way that can be understood by simply anyone who read the item because the author of this publication is well-known enough. This book also makes your own vocabulary increase well. So it is easy to understand then can go along with you, both in printed or e-book style are available. We suggest you for having this kind of Basic Pharmacokinetics and Pharmacodynamics: An Integrated Textbook and Computer Simulations instantly.

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Lydia Donaldson:

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