

Basic Pharmacokinetics and Pharmacodynamics: An Integrated Textbook and Computer Simulations

By Sara E. Rosenbaum

Download now

Read Online ➔

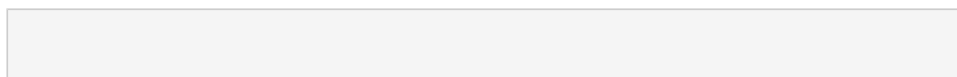
Basic Pharmacokinetics and Pharmacodynamics: An Integrated Textbook and Computer Simulations By Sara E. Rosenbaum

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.



 [**Download** Basic Pharmacokinetics and Pharmacodynamics: An In ...pdf](#)

 [**Read Online** Basic Pharmacokinetics and Pharmacodynamics: An ...pdf](#)

Basic Pharmacokinetics and Pharmacodynamics: An Integrated Textbook and Computer Simulations

By Sara E. Rosenbaum

Basic Pharmacokinetics and Pharmacodynamics: An Integrated Textbook and Computer Simulations By Sara E. Rosenbaum

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.

Basic Pharmacokinetics and Pharmacodynamics: An Integrated Textbook and Computer Simulations By Sara E. Rosenbaum Bibliography

- Sales Rank: #883472 in Books
- Published on: 2011-05-24
- Original language: English
- Number of items: 1
- Dimensions: 10.00" h x .90" w x 7.00" l, 1.85 pounds
- Binding: Paperback
- 448 pages

 [Download Basic Pharmacokinetics and Pharmacodynamics: An In ...pdf](#)

 [Read Online Basic Pharmacokinetics and Pharmacodynamics: An ...pdf](#)

Download and Read Free Online Basic Pharmacokinetics and Pharmacodynamics: An Integrated Textbook and Computer Simulations By Sara E. Rosenbaum

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, Anoxis 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

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.

Users Review

From reader reviews:

Jackson Cabrera:

Why don't make it to be your habit? Right now, try to ready your time to do the important work, like looking for your favorite guide and reading a publication. Beside you can solve your condition; you can add your knowledge by the book entitled Basic Pharmacokinetics and Pharmacodynamics: An Integrated Textbook and Computer Simulations. Try to the actual book Basic Pharmacokinetics and Pharmacodynamics: An Integrated Textbook and Computer Simulations as your pal. It means that it can to become your friend when you really feel alone and beside that of course make you smarter than ever before. Yeah, it is very fortunated for yourself. The book makes you a lot more confidence because you can know every thing by the book. So , we should make new experience in addition to knowledge with this book.

Jack Scala:

What do you ponder on book? It is just for students since they're still students or that for all people in the world, exactly what the best subject for that? Just simply you can be answered for that query above. Every person has several personality and hobby for every single other. Don't to be forced someone or something that they don't would like do that. You must know how great as well as important the book Basic Pharmacokinetics and Pharmacodynamics: An Integrated Textbook and Computer Simulations. All type of book could you see on many solutions. You can look for the internet sources or other social media.

Harry Baxter:

Are you kind of occupied person, only have 10 or maybe 15 minute in your moment to upgrading your mind proficiency or thinking skill also analytical thinking? Then you are experiencing problem with the book compared to can satisfy your short time to read it because all of this time you only find publication that need more time to be learn. Basic Pharmacokinetics and Pharmacodynamics: An Integrated Textbook and Computer Simulations can be your answer mainly because it can be read by an individual who have those short extra time problems.

Delaine Valencia:

In this particular era which is the greater individual or who has ability to do something more are more precious than other. Do you want to become one among it? It is just simple method to have that. What you need to do is just spending your time not very much but quite enough to get a look at some books. Among the books in the top listing in your reading list is usually Basic Pharmacokinetics and Pharmacodynamics: An Integrated Textbook and Computer Simulations. This book and that is qualified as The Hungry Hillside can get you closer in growing to be precious person. By looking right up and review this e-book you can get many advantages.

Download and Read Online Basic Pharmacokinetics and Pharmacodynamics: An Integrated Textbook and Computer Simulations By Sara E. Rosenbaum #9JNDUPCAEFO

Read Basic Pharmacokinetics and Pharmacodynamics: An Integrated Textbook and Computer Simulations By Sara E. Rosenbaum for online ebook

Basic Pharmacokinetics and Pharmacodynamics: An Integrated Textbook and Computer Simulations By Sara E. Rosenbaum Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Basic Pharmacokinetics and Pharmacodynamics: An Integrated Textbook and Computer Simulations By Sara E. Rosenbaum books to read online.

Online Basic Pharmacokinetics and Pharmacodynamics: An Integrated Textbook and Computer Simulations By Sara E. Rosenbaum ebook PDF download

Basic Pharmacokinetics and Pharmacodynamics: An Integrated Textbook and Computer Simulations By Sara E. Rosenbaum Doc

Basic Pharmacokinetics and Pharmacodynamics: An Integrated Textbook and Computer Simulations By Sara E. Rosenbaum Mobipocket

Basic Pharmacokinetics and Pharmacodynamics: An Integrated Textbook and Computer Simulations By Sara E. Rosenbaum EPub

9JNDUPCAEFO: Basic Pharmacokinetics and Pharmacodynamics: An Integrated Textbook and Computer Simulations By Sara E. Rosenbaum