



# **Basic Pharmacokinetics, Second Edition (Pharmacy Education Series)**

*Mohsen A. Hedaya*

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# Basic Pharmacokinetics, Second Edition (Pharmacy Education Series)

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Knowledge of pharmacokinetics is critical to understanding the absorption, distribution, metabolism, and excretion of drugs. It is therefore vital to those engaged in the discovery, development, and preclinical and clinical evaluation of drugs, as well as practitioners involved in the clinical use of drugs. Using different approaches accessible to a wide variety of readers, **Basic Pharmacokinetics: Second Edition** demonstrates the quantitative pharmacokinetic relations and the interplay between pharmacokinetic parameters.

After a basic introduction to pharmacokinetics and its related fields, the book examines:

- Mathematical operations commonly used in pharmacokinetics
- Drug distribution and clearance and how they affect the rate of drug elimination after a single dose
- Factors affecting drug absorption following extravascular drug administration, the rate and extent of drug absorption, and drug bioequivalence
- The steady-state concept during constant rate intravenous infusion and during multiple drug administration
- Renal drug elimination, drug metabolism, multicompartment models, nonlinear pharmacokinetics, and drug administration by intermittent intravenous infusion
- Pharmacokinetic-pharmacodynamic modeling, noncompartmental pharmacokinetic data analysis, clearance concept from the physiological point of view, and physiological modeling
- Clinical applications of pharmacokinetics, including therapeutic drug monitoring, drug pharmacokinetics in special populations, pharmacokinetic drug-drug interactions, pharmacogenomics, and applications of computers in pharmacokinetics

Accompanying the book is a CD-ROM with self-instructional tutorials and pharmacokinetic and pharmacokinetic-pharmacodynamic simulations, allowing visualization of concepts for enhanced comprehension. This learning tool received an award from the American Association of Colleges of Pharmacy for innovation in teaching, making it a valuable supplement to this essential text.

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