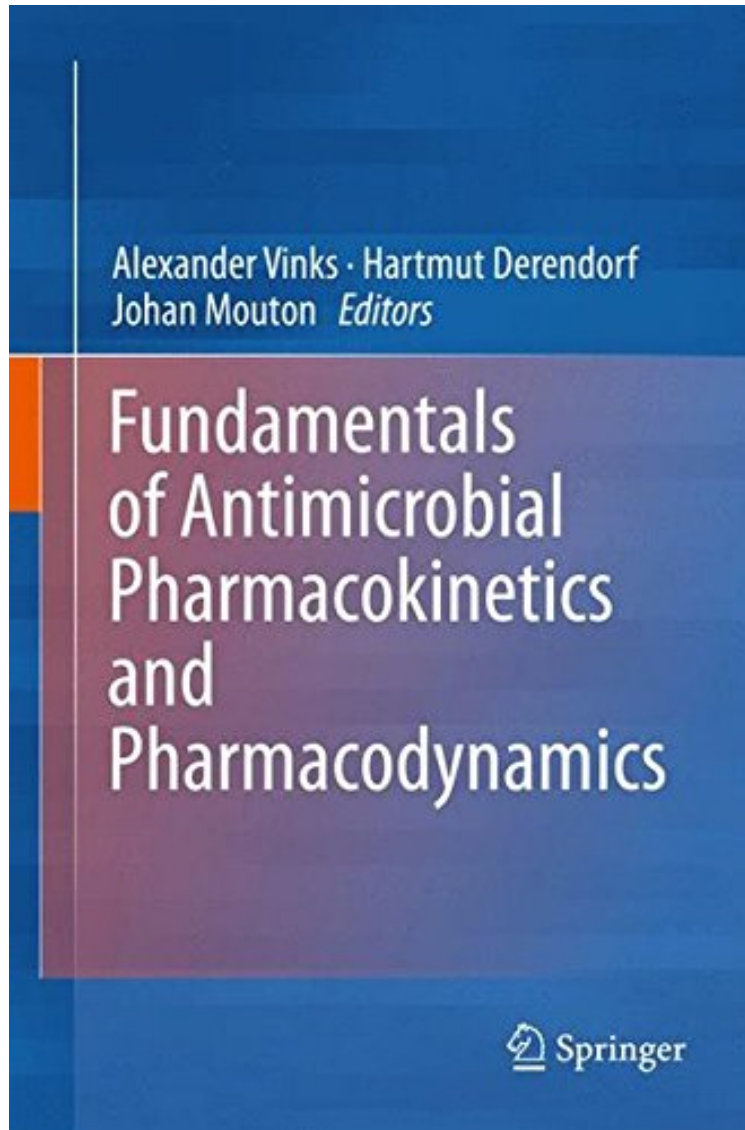


Fundamentals of Antimicrobial Pharmacokinetics and Pharmacodynamics

From Alexander Vinks
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From Alexander Vinks : Fundamentals of Antimicrobial Pharmacokinetics and Pharmacodynamics before purchasing it in order to gage whether or not it would be worth my time, and all praised Fundamentals of Antimicrobial Pharmacokinetics and Pharmacodynamics:

Over the past decade, significant progress has been made in the theory and applications of pharmacodynamics of antimicrobial agents. On the basis of pharmacokinetic-pharmacodynamic modeling concepts it has become possible to describe and predict the time course of antimicrobial effects under normal and pathophysiological conditions. The study of pharmacokinetic-pharmacodynamic relationships can be of considerable value in understanding drug action, defining optimal dosing regimens, and in making predictions under new or changing pre-clinical and clinical circumstances. Not surprisingly, pharmacokinetic-pharmacodynamic modeling concepts are increasingly applied in both basic and clinical research as well as in drug development. The book will be designed as a reference on the application of pharmacokinetic-pharmacodynamic principles for the optimization of antimicrobial therapy, namely pharmacotherapy, and infectious diseases. The reader will be introduced to various aspects of the fundamentals of antimicrobial pharmacodynamics, the integration of pharmacokinetics with pharmacodynamics for all major classes of antibiotics, and the translation of in vitro and animal model data to basic research and clinical situations in humans.

From the reviews: The book's first half can function as an advanced textbook and support learning these concepts and principles. The level and presentation are appropriate for learners who already have a reasonable grasp of general pharmacokinetics and pharmacodynamics, such as advanced graduate students, medical students, or pharmacy students. The second half applies these principles to an in-depth analysis of pharmacokinetics/pharmacodynamics for classes of antimicrobial drugs. This treatment can enhance the understanding and the application of these concepts for even experienced practitioners. (Gregory Reed, *Doodys Books*, June, 2014)

From the Back Cover: Over the past decade, significant progress has been made in the theory and applications of pharmacodynamics of antimicrobial agents. On the basis of pharmacokinetic-pharmacodynamic modeling concepts it has become possible to describe and predict the time course of antimicrobial effects under normal and pathophysiological conditions. The study of pharmacokinetic-pharmacodynamic relationships can be of considerable value in understanding drug action, defining optimal dosing regimens, and in making predictions under new or changing pre-clinical and clinical circumstances. Not surprisingly, pharmacokinetic-pharmacodynamic modeling concepts are increasingly applied in both basic and clinical research as well as in drug development. *Fundamentals of Antimicrobial Pharmacokinetics and Pharmacodynamics* is designed as a reference on the application of pharmacokinetic-pharmacodynamic principles for the optimization of antimicrobial therapy, namely pharmacotherapy, and infectious diseases. The reader is introduced to various aspects of the fundamentals of antimicrobial pharmacodynamics, the integration of pharmacokinetics with pharmacodynamics for all major classes of antibiotics, from basic research to clinical situations.