

1. Record Nr.	UNINA9910458649003321
Titolo	Principles of clinical pharmacology [[electronic resource] /] / Arthur J. Atkinson, Jr. ... [et al.]
Pubbl/distr/stampa	Amsterdam ; ; Oxford, : Academic, c2007
ISBN	1-280-72891-4 9786610728916 0-08-046642-7
Edizione	[2nd ed.]
Descrizione fisica	1 online resource (567 p.)
Disciplina	615.1
Soggetti	Clinical pharmacology Drugs Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Previous ed.: 2001.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Front cover; Title page; Copyright page; Table of contents; Preface to the First Edition; Preface to the Second Edition; Contributors; CHAPTER 1. Introduction to Clinical Pharmacology; BACKGROUND; PHARMACOKINETICS; PART I: PHARMACOKINETICS; CHAPTER 2. Clinical Pharmacokinetics; THE TARGET CONCENTRATION STRATEGY; CONCEPTS UNDERLYING CLINICAL PHARMACOKINETICS; MATHEMATICAL BASIS OF CLINICAL PHARMACOKINETICS; CHAPTER 3. Compartmental Analysis of Drug Distribution; PHYSIOLOGICAL SIGNIFICANCE OF DRUG DISTRIBUTION VOLUMES; PHYSIOLOGICAL BASIS OF MULTICOMPARTMENTAL MODELS OF DRUG DISTRIBUTION CLINICAL CONSEQUENCES OF DIFFERENT DRUG DISTRIBUTION PATTERNSANALYSIS OF EXPERIMENTAL DATA; CHAPTER 4. Drug Absorption and Bioavailability; DRUG ABSORPTION; BIOAVAILABILITY; KINETICS OF DRUG ABSORPTION AFTER ORAL ADMINISTRATION; CHAPTER 5. Effects of Renal Disease on Pharmacokinetics; EFFECTS OF RENAL DISEASE ON DRUG ELIMINATION; EFFECTS OF RENAL DISEASE ON DRUG DISTRIBUTION; EFFECTS OF RENAL DISEASE ON DRUG ABSORPTION; CHAPTER 6. Pharmacokinetics in Patients Requiring Renal Replacement Therapy; KINETICS OF INTERMITTENT HEMODIALYSIS;

KINETICS OF CONTINUOUS RENAL REPLACEMENT THERAPY
CLINICAL CONSIDERATIONS CHAPTER 7. Effect of Liver Disease on Pharmacokinetics; HEPATIC ELIMINATION OF DRUGS; EFFECTS OF LIVER DISEASE ON PHARMACOKINETICS; USE OF THERAPEUTIC DRUGS IN PATIENTS WITH LIVER DISEASE; CHAPTER 8. Noncompartmental versus Compartmental Approaches to Pharmacokinetic Analysis; INTRODUCTION; KINETICS, PHARMACOKINETICS, AND PHARMACOKINETIC PARAMETERS; NONCOMPARTMENTAL ANALYSIS; COMPARTMENTAL ANALYSIS; NONCOMPARTMENTAL VERSUS COMPARTMENTAL MODELS; CONCLUSION; CHAPTER 9. Distributed Models of Drug Kinetics; INTRODUCTION; CENTRAL ISSUES DRUG MODALITY I: DELIVERY ACROSS A PLANAR - TISSUE INTERFACEDRUG MODALITY II: DELIVERY FROM A POINT SOURCE - DIRECT INTERSTITIAL INFUSION; SUMMARY; CHAPTER 10. Population Pharmacokinetics; INTRODUCTION; ANALYSIS OF PHARMACOKINETIC DATA; POPULATION PHARMACOKINETICS; MODEL APPLICATIONS; CONCLUSIONS; PART II: DRUG METABOLISM AND TRANSPORT; CHAPTER 11. Pathways of Drug Metabolism; INTRODUCTION; PHASE I BIOTRANSFORMATIONS; PHASE II BIOTRANSFORMATIONS (CONJUGATIONS); ADDITIONAL EFFECTS ON DRUG METABOLISM; CHAPTER 12. Methods of Analysis of Drugs and Drug Metabolites; INTRODUCTION CHOICE OF ANALYTICAL METHODOLOGY CHROMATOGRAPHIC SEPARATIONS; ABSORPTION AND EMISSION SPECTROSCOPY; IMMUNOAFFINITY ASSAYS; MASS SPECTROMETRY; EXAMPLES OF CURRENT ASSAY METHODS; CHAPTER 13. Clinical Pharmacogenetics; INTRODUCTION; HIERARCHY OF PHARMACOGENETIC INFORMATION; IDENTIFICATION AND SELECTION OF OUTLIERS IN A POPULATION; EXAMPLES OF IMPORTANT GENETIC POLYMORPHISMS; CONCLUSIONS AND FUTURE DIRECTIONS; CHAPTER 14. Equilibrative and Concentrative Transport Mechanisms; INTRODUCTION; MECHANISMS OF TRANSPORT ACROSS BIOLOGICAL MEMBRANES; DESCRIPTION OF SELECTED MEMBRANE PROTEIN TRANSPORTERS ROLE OF TRANSPORTERS IN PHARMACOKINETICS AND DRUG ACTION

Sommario/riassunto

This revised second edition covers the pharmacologic principles underlying the individualization of patient therapy and contemporary drug development, focusing on the fundamentals that underlie the clinical use and contemporary development of pharmaceuticals. Authors drawn from academia, the pharmaceutical industry and government agencies cover the spectrum of material, including pharmacokinetic practice questions, covered by the basic science section of the certifying examination offered by the American Board of Clinical Pharmacology. This unique reference is recommended by the Board as a stu
