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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 METHODOLOGYCHROMATOGRAPHIC 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

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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

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