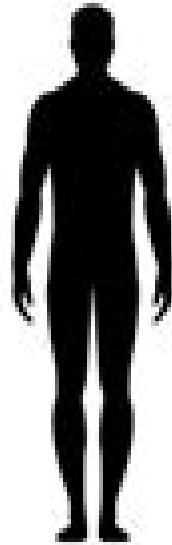
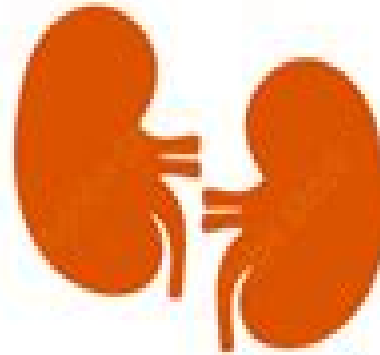


Patient - related



Kidney - related



Drug-related



Old age (≥ 60 -65 years)

Female sex

Altered pharmacogenetics
- genetic variations in hepatic CYP450 system and kidney transporters

Comorbidities: cirrhosis, diabetes, hypertension, heart failure, sepsis, metabolic perturbations (hypokalemia, hypomagnesemia, hypercalcemia, urine pH disturbances), active cancers

Underlying kidney insufficiency with $GFR < 60 \text{ mL/min/1.73m}^2$

True or effective volume depletion (kidney hypoperfusion)

Biotransformation of drugs to nephrotoxic metabolites and reactive oxygen species

High metabolic rate of tubular cells within a hypoxic environment

Proximal tubular uptake of drugs: apical via endocytosis or pinocytosis with drug accumulation or basolateral drug transport via hOATs or hOCTs

Use of high doses and prolonged dosing periods

Potent direct nephrotoxic drug effects

Exposure to multiple nephrotoxic agents

Pharmacokinetic and / or pharmacodynamic interactions between drugs that increase the free fraction, interfere with biotransformation or impair the excretion of drugs and their metabolites

Renal Disposition And Nephrotoxicity Of Xenobiotics

Claus-Michael Lehr



Renal Disposition And Nephrotoxicity Of Xenobiotics:

Renal Disposition and Nephrotoxicity of Xenobiotics Marion Walter Anders,1993 *Renal Disposition and Nephrotoxicity of Xenobiotics* ,1990 Renal Disposition and Nephrotoxicity of Xenobiotics ,1990 *Information Resources in Toxicology* P.J. Bert Hakkinen,Gerald Kennedy,Frederick W. Stoss,2000-01-10 Information Resources in Toxicology Third Edition is a sourcebook for anyone who needs to know where to find toxicology information It provides an up to date selective guide to a large variety of sources books journals organizations audiovisuals internet and electronic sources and more For the Third Edition the editors have selected organized and updated the most relevant information available New information on grants and other funding opportunities physical hazards patent literature and technical reports have also been added This comprehensive time saving tool is ideal for toxicologists pharmacologists drug companies testing labs libraries poison control centers physicians legal and regulatory professionals and chemists Serves as an all in one resource for toxicology information New edition includes information on publishers grants and other funding opportunities physical hazards patent literature and technical reports Updated to include the latest internet and electronic sources e mail addresses etc Provides valuable data about the new fields that have emerged within toxicological research namely the biochemical cellular molecular and genetic aspects **Environmental Health Perspectives** ,1993 **Toxicology of the Kidney** Ferdinand Rodriguez,Ferdinand Cohen,Christopher K. Ober,Lynden Archer,2004-12-28 The kidney plays a vital role in certain endocrine functions Abnormalities caused by toxic chemicals or other interventions can have profound effects on these functions and consequently on total functions Toxicology of the Kidney Third Edition is updated to reflect the latest research in this field and focuses on the correlation between anatomy **Toxicology of the Kidney** Joan B. Tarloff,Lawrence H. Lash,2004-12-28 The kidney plays a vital role in certain endocrine functions Abnormalities caused by toxic chemicals or other interventions can have profound effects on these functions and consequently on total functions Toxicology of the Kidney Third Edition is updated to reflect the latest research in this field and focuses on the correlation between anatomy In Vitro Methods in Pharmaceutical Research Jose V. Castell,Maria Jose Gmez-Lechn,1996-10-04 In Vitro Methods in Pharmaceutical Research provides a comprehensive guide to laboratory techniques for evaluating in vitro organ toxicity using cellular models Step by step practical tips on how to perform and interpret assays for drug metabolism and toxicity assessment are provided along with a comparison of different techniques available It is a welcome addition to the literature at a time when interest is growing in cellular in vitro models for toxicology and pharmacology studies Meets the continuing demand for information in this field Compares In Vitro techniques with other methods Describes cell culture methods used to investigate toxicity in cells derived from different organs Includes contributions by leading experts in the field Alternative Testing Methodologies ,1998 **Current Catalog** National Library of Medicine (U.S.),1993 First multi year cumulation covers six years 1965 70 *Biological Membranes in Toxicology* E. C. Foulkes,1998-12-17 Using this concise yet complete

introduction to all aspects of biological membranes and their responses to toxicants the reader will understand the role of cell membranes in controlling uptake distribution extrusion and excretion of toxic xenobiotics The book also covers the historical background and critically evaluates some of the experimental *National Library of Medicine Current Catalog* National Library of Medicine (U.S.),1993 **Cellular Physiology and Biochemistry** ,1995 **Membrane Transporters as Drug Targets** Gordon L. Amidon,Wolfgang Sadée,2006-04-11 Because progress in the field of transporters has been extraordinary this volume will focus on recent advances in our understanding of the structure function physiology and molecular biology of membrane transporters There will be an emphasis on transporters as molecular targets for drug delivery and disposition in the body **Cell Culture Models of Biological Barriers** Claus-Michael Lehr,2002-08-08 Over the past ten years several sophisticated in vitro test systems based on epithelial cell cultures have been introduced in the field of drug delivery These models have been found to be very useful in characterizing the permeability of drugs across epithelial tissues and in studying formulations or carrier systems for improved drug delivery and European Medicines Research G. N. Fracchia,1994 The European Medicines Evaluation Agency was established in 1995 in London on behalf of the European Union and regulates the standardization and harmonization in medicine applications for marketing authorization from 1995 on The European Commission has been the driving force in the anticipation of international cooperation and research for harmonization standards This volume provides an overview of contributions from academic regulatory and pharmaceutical world on the current state proposed methods and strategies for future research Cumulated Index Medicus ,1984 **Comprehensive Toxicology** ,2010-06-01 An explosive increase in the knowledge of the effects of chemical and physical agents on biological systems has led to an increased understanding of normal cellular functions and the consequences of their perturbations The 14 volume Second Edition of Comprehensive Toxicology has been revised and updated to reflect new advances in toxicology research including content by some of the leading researchers in the field It remains the premier resource for toxicologists in academia medicine and corporations Comprehensive Toxicology Second Edition provides a unique organ systems structure that allows the user to explore the toxic effects of various substances on each human system aiding in providing diagnoses and proving essential in situations where the toxic substance is unknown but its effects on a system are obvious Comprehensive Toxicology Second Edition is the most complete and valuable toxicology work available to researchers today Contents updated and revised to reflect developments in toxicology research Organized with a unique organ system approach Features full color throughout Available electronically on sciencedirect com as well as in a limited edition print version **Ullmann's Industrial Toxicology** Wiley-VCH,2005-10-28 The one stop resource for health protection professionals environmental scientists and safety engineers Since the entire 40 volume Ullmann s Encyclopedia is inaccessible to many readers particularly individuals smaller companies or institutes all the information on industrial toxicology ecotoxicology process safety as well as occupational

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Clinical Nephrotoxins Marc E. de Broe, George A. Porter, William M. Bennett, G.A. Verpooten, 2013-11-11

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