



Interactive clinical pharmacology

by tlbrinkIf you are saying that social science has lower correlations between predictor variables, you are correct. However, if you are saying that chemistry (in the form of pharmacology) produces more effective cures for mental disorders. In any event, any research comparing those treatments would have to use social science derived measures. See the research on the Geriatric Depression Scale.by aquene1In SF for grad studies, but learned alot about these two areas...if you should decide on childhood deve, i would strongly suggest specializing in special education; there is alot of need for it in all communities, and to specialize would really open you up to a whole host of needs, such as genetic realted, drug related, and of course the all inclusive developmental. another area of study would be in geriatrics, there are many programs, for this as well as for the former area, though ucsf has many programs you could take advantage of even if you are not a grad or medical student; the key is to research the schools that have good bachelors and or master/PhD programs especially in geriatrics; i worked at the UCSF memory clinic & alzheimer's center via field placement and learned alot about the job market aspects to he... Geriatric Pharmacology - The Principles of Practice & Clinical Recommendations Book (PHC Publishing Group an imprint of PESI HealthCare) Pharmacist Provider Status — Pharmacy TimesIn 2000, North Carolina was able to pass legislation that created a clinical pharmacist practitioner (CPP). We were able to work with the medical director for Medicare's Fiscal Intermediate to allow a CPP to bill for medical care as a provider. Geriatric Pharmacology Book (Mcgraw-Hill (Tx)) Geriatrics Society) Compact Clinical Guide to Geriatrics Society) Compact Clinical Guide to Geriatrics at Your Fingertips 2012 Book (American Geriatrics Society) Compact Clinical Guide to Geriatrics Society) Compact Clinical Guide to Geriatrics at Your Fingertips 2012 Book (American Geriatrics Society) Compact Clinical Guide to Geriatrics at Your Fingertips 2012 Book (American Geriatrics Society) Compact Clinical Guide to Geriatrics Society) Compact Clinical Guide to Geriatrics Society (Springer Geriatrics Society) Compact Clinical Guide to Geriatrics at Your Fingertips 2012 Book (Springer Geriatrics Society) Compact Clinical Guide to Geriatrics at Your Fingertips 2012 Book (Springer Geriatrics Society) Compact Clinical Guide to Geriatrics Society) Compact Clinical Guide to Geriatrics at Your Fingertips 2012 Book (Springer Geriatrics Society) Compact Clinical Guide to Geriatrics Society) Compact Clinical Guide to Geriatrics Society (Springer Geriatrics Society) Compact Clinical Guide to Geriatrics Society) Compact Clinical Guide to Geriatrics Society (Springer Geriatrics Society) Compact Clinical Guide to Geriatrics Society (Springer Geriatrics Society) Compact Clinical Guide to Geriatrics Society (Springer Geriatrics Society) Compact Clinical Guide to Geriatrics Society (Springer Geriatrics Society) (Springer Geriatrics Society) Compact Clinical Guide to Geriatrics Society (Springer Geriatrics Society) (Springer Publishing Company) Home > Clinical Pharmacokinetics & Pharmacokinetics and pharmacokinetics electronic Medicines Compendium (eMC) Summaries of Product Characteristics (SPCs) The SPC is used by healthcare professionals, such as doctors, nurses and pharmacists, and explains how to use and prescribe a medicine. Source: medicines.org.uk Clinical Resource: Summaries of Product Characteristics (SPCs) Register to Access Content: No Last Checked: 17/02/14 Link Error: Report It The site has been designed to increase understanding of important and sometimes difficult concepts and principles in Clinical Pharmacology. The site is for any student or practitioner requiring Clinical Pharmacology. pharmacology. A basic understanding of physiology and pharmacodynamics Pharmacodyn Interactions Drug Transport Graph Plotter Source: icp.org.nz Clinical Resource: CE / CPD / Learning Register to Access Content: No Last Checked: 17/02/14 Link Error: Report It The Merck Manual for Health Care Professionals Pharmacokinetics Topics in Pharmacokinetics Overview of Pharmacokinetics Drug Absorption Drug Bioavailability Drug Distribution to Tissues Drug Metabolism Drug Excretion Source: merckmanuals.com Clinical Resource: Manual Register to Access Content: No Last Checked: 17/02/14 Link Error: Report It The University of Nottingham Reusable Learning Objects (RLOs) RLOs are small, 'bite-sized' chunks of e-learning focussing on a particular narrow topic containing typically 15-30 minutes of learning material. RLOs Bioavailability Introduction to the concept of the bioavailability of drugs. Clinical impact. Half-life of drugs To understand the half-life of drugs To understand the half-life of drugs To understand the half-life of drugs. life of drugs and its relationship with volume of distribution and clearance. Introduction to drug clearance Provides a definition of clearance and a basic explanation of the processes Pharmacokinetic and pharmacodynamic influences of aminoglycoside dosing Examines how the absorbtion and distribution of aminoglycosides within the body affects the dosing regimens used. Plasma Proteins and Drug Excretion The role of the kidneys in the blood in the distribution and elimination of drugs. Understanding First Pass Metabolism Description of first pass metabolism of orally-administered drugs in the liver and gastrointestinal tract Volume of distribution, and how it is calculated. Source: CE / CPD / Learning Register to Access Content: No Last Checked: 17/02/14 Link Error: Report It Pharmacokinetics and Pharmacokinetics Define pharmacokinetics Define pharmacokinetics and the four basic processes involved in pharmacokinetics and the concept of agonist and antagonist Define bioavailability, half life and therapeutic index and describe the relevance of these to drug action Source: associationforprescribers.org.uk Clinical Resource: Notes Register to Access Content: No Last Checked: 30/08/16 Link Error: Report It In the first article in a series intended to remind pharmacists about the basic principles of pharmacokinetics, pharmacodynamics and therapeutic drug monitoring, Alison Thomson describes the principal pharmacokinetic parameters Variability in drug dosage requirements In the second article in a series intended to remind pharmacists about the basic principles of pharmacokinetics, pharmacodynamics and therapeutic drug monitoring, Alison Thomson describes inter-individual variability issues that should be considered when recommending a dosage regimen Why do therapeutic drug monitoring In this third article in our back to basics series on pharmacokinetics, Alison Thomson gives an overview of the factors that make therapeutic drug monitoring necessary and looks at some of the groups of drugs where monitoring is often needed Examples of dosage regimens to achieve target concentrations in individual patients Source: pharmaceutical-journal.com Clinical Resource: Journal Articles Register to Access Content: Yes - content available to members of the RPS and paid subscribers Last Checked: 30/08/16 Link Error: Report It When the dose of a drug is increased, we expect that the concentration at steady state will increase proportionately, i.e. if the dose rate is increased or decreased say two-fold, the plasma drug concentration will also increase or decrease two-fold. Source: nps.org.au Clinical Resource: Journal Article Register to Access Content: No Last Checked: 08/08/16 Link Error: Report It Continuous infravenous infusions and intermittent intravenous boluses are common ways of administering drugs such as gentamicin, lignocaine and theophylline. Source: nps.org.au Clinical Resource: Journal Article Register to Access Content: No Last Checked: 08/08/16 Link Error: Report It Table of Contents Pharmacokinetic definitions and principles Aminoglycoside dosing Aminogly pharmacokinetic calculations Aminoglycoside dosing in patients with cystic fibrosis Vancomycin Overview and pharmacokinetic calculations Clinical Pearls Dialysis - Aminoglycosides and Vancomycin TNMC Nephrology Protocol for Vancomycin Dosing Clinical Pearls Dialysis - Aminoglycoside dosing in patients with cystic fibrosis Vancomycin TNMC Nephrology Protocol for Vancomycin Dosing Clinical Pearls Dialysis - Aminoglycoside dosing in patients with cystic fibrosis Vancomycin TNMC Nephrology Protocol for Vancomycin Dosing Clinical Pearls Dialysis - Aminoglycoside dosing in patients with cystic fibrosis Vancomycin Dosing Clinical Pearls Dialysis - Aminoglycoside dosing in patients with cystic fibrosis Vancomycin Dosing Clinical Pearls Dialysis - Aminoglycoside dosing in patients with cystic fibrosis Vancomycin Dosing Clinical Pearls Dialysis - Aminoglycoside dosing in patients with cystic fibrosis Vancomycin Dosing Clinical Pearls Dialysis - Aminoglycoside dosing in patients with cystic fibrosis Vancomycin Dosing Clinical Pearls Dialysis - Aminoglycoside dosing in patients with cystic fibrosis Vancomycin Dosing Clinical Pearls Dialysis - Aminoglycoside dosing in patients with cystic fibrosis Vancomycin Dosing Clinical Pearls Dialysis - Aminoglycoside dosing in patients with cystic fibrosis Vancomycin Dosing Clinical Pearls Dialysis - Aminoglycoside dosing in patients with cystic fibrosis Vancomycin Dosing Clinical Pearls Dialysis - Aminoglycoside dosing in patients with cystic fibrosis Vancomycin Dialysis - Aminoglycoside dosing in patients with cystic fibrosis Vancomycin Dialysis - Aminoglycoside dosing in patients with cystic fibrosis Vancomycin Dialysis - Aminoglycoside dosing in patients with cystic fibrosis Vancomycin Dialysis - Aminoglycoside dosing in patients with cystic fibrosis Packet Register to Access Content: No Last Checked: 17/02/14 Link Error: Report It Kinetics Equations Pocket Guide Source: equations Register to Access Content: No Last Checked: 17/02/14 Link Error: Report It Useful Pharmacokinetic Equations Source: ufl.edu Clinical Resource: Equations Register to Access Content: No Last Checked: 17/02/14 Link Error: Report It Useful Pharmacokinetic Equations Source: ufl.edu Clinical Resource: Equations Register to Access Content: No Last Checked: 17/02/14 Link Error: Report It Useful Pharmacokinetic Equations Source: ufl.edu Clinical Resource: Equations Register to Access Content: No Last Checked: 17/02/14 Link Error: Report It Useful Pharmacokinetic Equations Source: ufl.edu Clinical Resource: Equations Register to Access Content: No Last Checked: 17/02/14 Link Error: Report It Useful Pharmacokinetic Equations Source: ufl.edu Clinical Resource: Equations Register to Access Content: No Last Checked: 17/02/14 Link Error: Report It Useful Pharmacokinetic Equations Source: ufl.edu Clinical Resource: Equations Register to Access Content: No Last Checked: 17/02/14 Link Error: Report It Useful Pharmacokinetic Equations Source: ufl.edu Clinical Resource: Equations Register to Access Content: No Last Checked: 17/02/14 Link Error: Report It Useful Pharmacokinetic Equations Source: ufl.edu Clinical Resource: Equations Register to Access Content: No Last Checked: 17/02/14 Link Error: Report It Useful Pharmacokinetic Equations Source: ufl.edu Clinical Resource: Equations Register to Access Content: No Last Checked: 17/02/14 Link Error: Report It Useful Pharmacokinetic Equations Source: ufl.edu Clinical Resource: Equations Register to Access Content: No Last Checked: 17/02/14 Link Error: Report It Useful Pharmacokinetic Equations Register to Access Content: No Last Checked: 17/02/14 Link Error: Report It Useful Pharmacokinetic Equations Register to Access Content: No Last Checked: 17/02/14 Link Error: Report It Useful Pharmacokinetic Equations Register to Access Content: No Last Checked: 1 Access Content: No Last Checked: 17/02/14 Link Error: Report It Half Life Calculate the half-life of a drug from two plasma levels separated by a time interval. Source: weill.cornell.edu Clinical Resource: Calculator Register to Access Content: No Last Checked: 17/02/14 Link Error: Report It Table of Contents List of Monitorable Drugs and Therapeutic Ranges Basic Pharmacokinetic Concepts Guidelines for Pharmacokinetic Monitoring General Equations for BSA, IBW, and Clcr Monitorial Resource: Manual Register to Access Content: No Last Checked: 17/02/14 Link Error: Report It TDM kinetics Carbamazepine Digoxin Ethosuximide Phenobarbital Primidone Phenytoin Theophylline Valproic acid Source: pathology.leedsth.nhs.uk Clinical Resource: Table Register to Access Content: No Last Checked: 17/02/14 Link Error: Report It This article will describe, rather than derive equations to explain, the pharmacokinetics of i.v. infusions and a basic understanding of simple models of pharmacokinetics and the relationships between parameters is assumed. Source: oxfordjournals.org Clinical Resource: Journal Article Register to Access Content: No Last Checked: 22/02/17 Link Error: Report It Pharmacokinetics and drug metabolism play an important role as determinants of in vivo drug action. The CYP450 enzyme family plays a determinant role in the biotransformation of a vast number of structurally diverse drugs. Many drug interactions are a result of the inhibition or induction of CYP enzymes. The non-compartmental pharmacokinetic analysis is the most used method for analyzing data from a drug interaction study. interactions. Source: benthamscience.com Clinical Resource: Journal Article Register to Access Content: No Last Checked: 17/02/14 Link Error: Report It Welcome to the official database of the IUPHAR Committee on Receptor Nomenclature and Drug Classification. Detailed, peer-reviewed pharmacological, functional and pathophysiological information on human, mouse and rat G Protein-Coupled Receptors, Voltage- and Ligand-Gated Ion Channels, Nuclear Hormone Receptors and selected Enzymes, including all Protein Kinases. Source: iuphar-db.org Clinical Resource: Database Register to Access Content: No Last Checked: 17/02/14 Link Error: Report It This bulletin will review the effect of increasing age on how medicines are handled by the body and will provide guidance on ensuring the effective use of medicines Information Centre Bulletin Register to Access Content: No Last Checked: 17/02/14 Link Error: Report It In recent years, there has been growing interest and increasing recognition that sex and gender may play a significant role in a person's response to medication and should be an important part of individual prescribing. Source: iasp-pain.org Clinical Resource: Newsletter Register to Access Content: No Last Checked: 07/05/15 Link Error: Report It The objectives of this lesson are such that upon completion the participant will be able to: Discuss the pharmacogenetic variables that cause pharmacokinetic changes in medications and increased risk of adverse drug reactions. Describe the risk of hypersensitivity reactions associated with various HLA-alleles. Source: wfprofessional.com Clinical Resource: CE / CPD / Learning Register to Access Content: No Last Checked: 17/02/14 Link Error: Report It Drug products designed to reduce the frequency of dosing by modifying the rate of drug absorption have been available for many years. Early modified-release products were often intramuscular/subcutaneous injections of suspensions of insoluble drug complexes, e.g. procaine penicillin, protamine zinc insulin, insulin zinc suspensions or injections of the drug in oil, e.g. fluphenazine decanoate. Advances in technology have resulted in novel oral modified-release dosage forms. Source: nps.org.au Clinical Resource: Journal Article Register to Access Content: No Last Checked: 08/08/16 Link Error: Report It The aim of this bulletin is to highlight the issues around drug dosing in obese patients. Source: druginformation.co.nz Clinical Resource: Drug Information Service Bulletin Register to Access Content: No Last Checked: 17/02/14 Link Error: Report It Obese Patients - Medication Dosing Source: cshp-sk.org Clinical Resource: cshp-sk.org Clinical Resource: Content: No Last Checked: 17/02/14 Link Error: Report It This document which represents information and experience of dosing of drugs in critically ill patients in extremes of body weight, has been produced by the Scottish Adult Critical Care Pharmacists Network (SACCPN) in an attempt to make the necessary information more readily available. Source: scottishintensivecare.org.uk Clinical Resource: No Last Checked: 11/05/15 Link Error: Report It Society of Family Planning Clinical Guideline for Contraceptive Considerations in Obese Women Source: societyfp.org Clinical Resource: Guideline Register to Access Content: No Last Checked: 20/08/15 Link Error: Report It A: Enoxaparin (Lovenox) is a low-molecular-weight heparin administered subcutaneously for the prevention and treatment of deep thrombosis (DVT) and pulmonary embolism (PE). Source: duq.edu Clinical Resource: Pharmaceutical Information Centre Publication Register to Access Content: No Last Checked: 17/02/14 Link Error: Report It How to Dose Antibiotics in the Critically Ill Obese Patient Source: umem.org Clinical Resource: Eduational Pearl Register to Access Content: No Last Checked: 11/05/15 Link Error: Report It This is part 1 of a two-article series that is aimed to address how pharmacotherapy is affected by bariatric surgery. The current article is aimed to provide a detailed review of process and factors that affect drug absorption from the gastrointestinal tract. The discussion may help clinicians better predict how bariatric procedures may affect oral drug absorption and pharmacotherapy. Drug Therapy-Related Issues in Patients Who Received Bariatric Surgery (Part II) This is part 2 of a two-article series that is aimed to address how pharmacotherapy is affected by bariatric surgery. The focus of this article is to review how each of the established bariatric surgery. literature. Other pertinent pharmacotherapy-related issues in patients with bariatric surgery, such as the risk of pill esophagitis, hormonal contraception, anticoagulant therapy, will be also addressed. Source: virginia.edu Clinical Resource: Journal Articles Register to Access Content: No Last Checked: 25/04/16 Link Error: Report It A: Obesity is an increasing epidemic and estimated to affect about 30 percent of the American population. Many obese patients elect to undergo surgery after failed attempts at other alternatives for weight loss. There are three types of bariatric or gastric bypass surgery. Source: duq.edu Clinical Resource: Pharmaceutical Information Centre Publication Register to Access Content: No Last Checked: 17/02/14 Link Error: Report It This article will review pharmacokinetic changes in pregnancy. Source: ufl.edu Clinical Resource: Publication Register to Access Content: No Last Checked: 17/02/14 Link Error: Report It Most drugs pass into breastmilk - but generally in very small amounts (less than 1%). Source: breastfeedingnetwork.org.uk Clinical Resource: Factsheet Register to Access Content: No Last Checked: 08/08/16 Link Error: Report It LIVERTOX is a freely available website that provides up-to-date, comprehensive and unbiased information about drug induced liver injury caused by prescription drugs, herbals and dietary supplements. LiverTox is a joint effort of the Liver Disease Research Branch of the National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK) and the Division of Specialized Information Services of the National Institutes of Health. Source: nih.gov Clinical Resource: Database Register to Access Content: No Last Checked: 17/02/14 Link Error: Report It As the liver is responsible for the metabolism of many compounds, knowledge of a patient history, examination and blood tests such as serum albumin and bilirubin, as well as prothrombin time, is recommended before prescribing some medications. Source: nps.org.au Clinical Resource: Journal Article Register to Access Content: No Last Checked: 08/08/16 Link Error: Report It Drugs that are predominantly hepatically cleared may require dosage adjustment in the presence of significant liver impairment. This bulletin discusses the general principles of the assessment of liver impairment with respect to drug metabolism, and the subsequent adjustment of drug doses. Source: Drug Information.co.nz Clinical Resource: Drug Information Service Bulletin Register to Access Content: No Last Checked: 17/02/14 Link Error: Report It The Child-Pugh or Child-Turcotte-Pugh grading scale utilizes five criteria to estimate the severity of liver disease. Source: Pharmaceutical Information Centre Publication Register to Access Content: No Last Checked: 17/02/14 Link Error: Report It Frequently asked Questions About GFR Estimates Provides concise and direct answers to 23 frequently asked patient questions chosen by physicians about the use of glomerular filtration rate (GFR) in the evaluation of kidney function. Includes several related tables and graphs. Source: kidney.org Clinical Resource: Frequently Asked Questions Register to Access Content: No Last Checked: 21/08/15 Link Error: Report It This document describes the National Kidney Disease Education Program's (NKDEP) suggestions and rationales for assessment of kidney function for drug dosing purposes. Source: nih.gov Clinical Resource: Factsheet Register to Access Content: No Last Checked: 17/02/14 Link Error: Report It The purpose of this review is to examine the factors affecting drug clearance and the available evidence for drug dosing based on the CG and the abbrMDRD equations. The important differences and clinical utility of these equations should be appreciated before their use, and these are discussed. Source: thomasland.com Clinical utility of these equations should be appreciated before their use, and these are discussed. Adjustments in Chronic Kidney Disease: The Pharmacist's Role An important issue in drug therapy is dosage adjustment in chronic kidney disease (CKD). Many drugs need to be adjusted depending on a person's kidney function; it is the pharmacist's duty to ensure a patient is taking the optimal dose. Source: usask.ca Clinical Resource: Drug Information Service Newsletter Register to Access Content: No Last Checked: 17/02/14 Link Error: Report It Glomerular filtration rate is the best measure of kidney disease | Limitations to use of the Cockcroft-Gault or MDRD equation | Using estimates of GFR for drug-dosage adjustments Source: nps.org.au Clinical Resource: National Prescribing Service Publication Register to Access Content: No Last Checked: 17/02/14 Link Error: Report It Adult Drug Book Kidney Disease Programme Source: kdpnet.kdp.louisville.edu Clinical Resource: No Last Checked: 20/08/15 Link Error: Report It Adult Drug Book Kidney Disease Programme Source: kdpnet.kdp.louisville.edu Clinical Resource: No Last Checked: 20/08/15 Link Error: Report It Adult Drug Book Kidney Disease Programme Source: kdpnet.kdp.louisville.edu Clinical Resource: No Last Checked: 20/08/15 Link Error: Report It Adult Drug Book Kidney Disease Programme Source: kdpnet.kdp.louisville.edu Clinical Resource: No Last Checked: 20/08/15 WHO Model Formulary 2008 > Appendix 4: Renal Impairment Source: who.int Clinical Resource: Formulary Register to Access Content: No Last Checked: 17/02/14 Link Error: Report It Dose adjustment in renal impairment Drugs for which dose adjustment Drugs for whi Clinical Resource: Guidance Register to Access Content: No Last Checked: 17/02/14 Link Error: Report It On average, patients with renal insufficiency are taking at least 7 different medications to manage not only their underlying disease (such as diabetes) but also the symptoms related to their renal impairment (i.e., problems with mineral metabolism, anemia). The frequency of adverse drug reactions increases with the number of medications used, the degree of renal dysfunction, the age of the patient and the number of comorbid conditions. Source: cmaj.ca Clinical Resource: Journal Article Register to Access Content: No Last Checked: 17/02/14 Link Error: Report It The appropriate and the number of comorbid conditions. prescribing of many drugs depends on knowledge of the patient's total renal function, which is proportional to their body mass. The Cockcroft-Gault method of calculating creatinine clearance takes into account the patient's total renal function. results, is useful for screening for renal disease, but is unsuitable for calculating doses as it does not take into account the patient's size. Source: nps.org.au Clinical Resource: Journal Article Register to Access Content: No Last Checked: 08/08/16 Link Error: Report It Chronic kidney disease (CKD) affects renal drug elimination and other important processes involved in drug disposition, including absorption, drug distribution and non-renal clearance. As a result, the reduced renal excretion of a drug or its metabolites can cause toxicity and the sensitivity to some drugs is increased even if elimination is unimpaired. Source: pccj.eu Clinical Resource: Journal Article Register to Access Content: No Last Checked: 17/02/14 Link Error: Report It Know your patient's renal function - an important prescribing consideration discusses medicines that may require renal function monitoring in the general practice setting and highlights the need to assess renal function when prescribing these medicines, especially for older people or for those with diabetes. Source: veteransmates.net.au Clinical Resource: Brief Register to Access Content: No Last Checked: 17/02/14 Link Error: Report It Dosing recommendations are based on creatinine clearance calculated using the Cockcroft-Gault equation. Click on the antibiotic for details of each dose adjustment Source: gloshospitals.nhs.uk Clinical Resource: Database Register to Access Content: No Last Checked: 17/02/14 Link Error: Report It NOTE: The dosage information is based on Cockroft-Gault creatinine clearance. Source: neessexccg.nhs.uk Clinical Resource: Guideline Register to Access Content: No Last Checked: 21/09/17 Link Error: Report It Adult Anti-Infective Dosing Guidelines 2011-2012 NewYork-Presbyterian Hospital Recommendations for Dose Adjustment in Patients With Renal Dysfunction Source: cumc.columbia.edu Clinical Resource: Guideline Register to Access Content: No Last Checked: 09/03/15 Link Error: Report It Renal Dosage Adjustment Guidelines for Antimicrobials Source: nebraskamed.com Clinical Resource: Dosing Protocol Register to Access Content: No Last Checked: 17/02/14 Link Error: Report It Table of disease-modifying antirheumatic drugs (DMARDs) includes contraindications and monitoring. Source: nps.org.au Clinical Resource: National Prescribing Service Publication Register to Access Content: No Last Checked: 17/02/14 Link Error: Report It Bone disease is commonly associated with chronic kidney disease (CKD), and the prevalence of skeletal abnormalities in those with end-stage renal disease approaches 100%. While renal osteodystrophy is the collective term for various types of uraemia-related bone remodelling, including hyperparathyroid bone disease, advnamic bone disease and osteomalacia, persons with CKD can also develop osteoporosis. Source: rcpe.ac.uk Clinical Resource: Journal Article Register to Access Content: No Last Checked: 17/02/14 Link Error: Report It There have been a number of medication incidents reported recently involving the use of enoxaparin in patients with severe renal impairment (creatinine clearance less than 30ml/min) who, as a result of treatment have suffered a haemorrhage. Source: medicinesgovernance.hscni.net Clinical Resource: Memo Register to Access Content: No Last Checked: 31/03/14 Link Error: Report It This review looks at the structure, chemistry, and metabolism of opioids for the treatment of intractable pain. Source: painphysicianjournal.com Clinical Resource: Journal Article Register to Access Content: No Last Checked: 19/10/15 Link Error: Report It The 'Pharmacokinetics' course describes the basic ways in which drugs work as a foundation to studying applied pharmacokinetics: Metabolism and Excretion Source: paincommunitycentre.org Clinical Resource: CPD / CE / CME / Learning Register to Access Content: Yes - registration is FREE to healthcare professionals Last Checked: 17/06/14 Link Error: Report It This compendium is made up of a highly authoritative series of up-to-date accounts of all the drug classes used in the contemporary treatment of hypertension. These papers, written by the leading experts in the field, individually and collectively represent an invaluable resource: Compendium Register to Access Content: No Last Checked: 17/02/14 Link Error: Report It Therapeutic drug monitoring of concentrations of drugs in body fluids, usually plasma, can be used during treatment and for diagnostic purposes. The selection of drugs in body fluids, usually plasma, can be used during treatment and for diagnostic purposes. Article Register to Access Content: No Last Checked: 08/08/16 Link Error: Report It The timing of blood collection is important | Details to include on the request form | References Source: bpac.org.nz Clinical Resource: Article Register to Access Content: No Last Checked: 17/02/14 Link Error: Report It Caffeine Carbamazepine Ciclosporin Digoxin Ethosuximide Gentamicin Lithium Phenobarbitone Phenytoin Primidone Sodium Valproate Theophylline Tobramycin Vancomycin Source: formulary.cht.nhs.uk Clinical Resource: Bulletin Register to Access Content: No Last Checked: 17/02/14 Link Error: Report It Contents: Introduction Carbamazepine Ciclosporin Digoxin Gentamicin Lithium Phenytoin Theophylline (aminophylline) Vancomycin Source: mm.wirral.nhs.uk Clinical Resource: Document Register to Access Content: No Last Checked: 17/02/14 Link Error: Report It Therapeutic drug monitoring Therapeutic drug monitoring refers to the individualisation of dosage by maintaining plasma or blood drug concentrations within a target range (therapeutic range, therapeutic window). There are two major sources of variability between individual patients in drug response. Source: nps.org.au Clinical Resource: Journal Article Register to Access Content: No Last Checked: 08/08/16 Link Error: Report It ABC of Monitoring Drug Therapy Digoxin In this article we apply to digoxin the criteria which must be fulfilled in part or in full before the measurement of its plasma concentration can be considered worth while. Lithium In this article we apply to phenytoin the criteria that must be fulfilled in part or in full before the measurement of its plasma concentration can be considered worth while. lithium the criteria which must be fulfilled in part or in full before measurement of its plasma concentration can be considered worth while. Aminoglycoside Antibiotics In this article we apply to aminoglycosides the criteria which must be fulfilled in part or in full before the measurement of their plasma concentrations of cyclosporin is an important part of treatment since its toxic:therapeutic ratio is very low. Also, the variable pharmacokinetics of cyclosporin among patients make accurate prediction of the initial dosage difficult. This variability results from differences in the drug's absorption, distribution, and clearance. Making the Most of Plasma drug concentration measurements is hard to justify. None the less, measurements are sometimes made for other drugs; tricyclic antidepressants; and methotrexate. Source: europepmc.org Clinical Resource: Journal Articles Register to Access Content: No Last Checked: 07/04/14 Link Error: Report It Monitoring drug concentrations When should drug concentrations be monitored? Sample type In most clinical settings the measurement of total serum concentrations will suffice and indeed most routine methods for measurement of drug that is free (unbound) and that that is bound to serum proteins. Source: epilepsysociety.org.uk Clinical Resource: Register to Access Content: No Last Checked: 17/02/14 Link Error: Report It Carbamazepine Ethosuximide Felbamate Gabapentin Lamotrigine Phenobarbital Phenotypine Phenobarbital Phenotypine Phenobarbital Phenotypine Phenobarbital Phenotypine Ethosuximide Felbamate Gabapentin Lamotrigine Phenobarbital Phenotypine Phenobarbital Phenotypine Phenotypin Content: No Last Checked: 08/04/14 Link Error: Report It In this paper an overview will be given of how knowledge of pharmacokinetic characteristics an AED should have. Various clinical factors such as age, underlying physiological conditions and drug interactions will also affect the pharmacokinetics and efficacy of AED medication. It will be shown how by anticipating changes in pharmacokinetics due to possible drug interactions, or alterations in one of the pharmacokinetics and breakthrough seizures may be averted and aid in the choice of optimal AED therapy for each patient. Source: mcppnet.org Clinical Resource: Journal Article Register to Access Content: No Last Checked: 17/02/14 Link Error: Report It The purpose of this article is to provide a concise overview of pharmacokinetic interactions between psychotropic agents and antiepileptic drugs (AEDs). Last Checked: 17/02/14 Link Error: Report It This review examines the elusive concept of therapeutic AED blood levels and adjust for altered AED pharmacokinetics in the context of aging and disease states, pregnancy, or drug interactions. Source: nih.gov Clinical Resource: Journal Article Register to Access Content: No Last Checked: 17/02/14 Link Error: Report It The antiepileptic phenytoin requires therapeutic drug monitoring during its use to ensure adequate seizure control and to avoid toxicity. Source: auspharmlist.net.au Clinical Resource: Pharmacy E-Bulletin Register to Access Content: No Last Checked: 17/02/14 Link Error: Report It Phenytoin is a commonly used anticonvulsant but is one of the most difficult drugs to dose appropriately. It has a narrow therapeutic range and, because of saturable metabolism, small dose increases can result in disproportionately large increases in serum concentrations. Source: druginformation.co.nz Clinical Resource: Drug Information Service Bulletin Register to Access Content: No Last Checked: 17/02/14 Link Error: Report It Phenytoin carries a special risk of dose-related toxicity, due to its saturation (zero-order) pharmacokinetics: serum levels often rise much more than would ordinarily be expected after initiating or increasing a maintenance dose. This predicts a vulnerability to toxicity, but does not predict exactly when this will occur in the individual. Source: jfponline.com Clinical Resource: Journal Article Register to Access Content: No Last Checked: 17/02/14 Link Error: Report It This article describes the application of therapeutic drug monitoring to achieve optimal dosing of phenytoin in an elderly patient with co-morbid conditions. Source: clinicalpharmacy.org.uk Clinical Resource: Journal Article Register to Access Content: Yes - registration is FREE to healthcare professionals Last Checked: 17/02/14 Link Error: Report It Phenytoin Dosing Calculator Source: globalrph.com Clinical Resource: Calculator Register to Access Content: No Last Checked: 17/02/14 Link Error: Report It The use of therapeutic drug monitoring for clozapine is indicated in various situations, including poor compliance, inadequate response to treatment, presence of significant adverse effects, the presence of specific disease states (especially hepatic disease) and where there may be drug interactions. Source: auspharmlist.net.au Clinical Resource: Pharmacy E-Bulletin Register to Access Content: No Last Checked: 17/02/14 Link Error: Report It Digoxin - Loading Dose Guide (Adults) The intravenous route should be reserved for use in patients requiring urgent digitalisation for supraventricular arrhythmias Source: icid.salisbury.nhs.uk Clinical Resource: Calculator Register to Access Content: No Last Checked: 22/02/17 Link Error: Report It Digoxin Dosing Calculator Source: globalrph.com Clinical Resource: Calculator Register to Access Content: No Last Checked: 17/02/14 Link Error: Report It This bulletin summarises digoxin therapy and provides advice on TDM. Source: druginformation.co.nz Clinical Resource: Drug Information Service Bulletin Register to Access Content: No Last Checked: 13/05/16 Link Error: Report It How is an intravenous aminophylline dose converted to an oral aminophylline dose? Prepared by UK Medicines Information (UKMi) pharmacists for NHS healthcare professionals When changing a patient's therapy from IV aminophylline to oral therapy with either theophylline or aminophylline. the bioavailability and the salt equivalence should be considered. Source: sps.nhs.uk Clinical Resource: Medicines Question and Answer Register to Access Content: No Last Checked: 22/09/16 Link Error: Report It British Society for Haematology Guideline on Oral Anticoagulation With Warfarin - Fourth Edition Source: b-s-h.org.uk Clinical Resource: B-s-h.org.uk College of Chest Physicians Evidence-Based Clinical Practice Guideline on Antithrombotic and Thrombolytic Therapy (9th Edition). Source: hematology.org Clinical Resource: Guide Register to Access Content: No Last Checked: 20/08/15 Link Error: Report It Welcome to WarfarinDosing.org, a free Web site to help doctors and other clinicians begin warfarin therapy by estimating the therapeutic dose in patients new to warfarin. This site is supported by the Barnes-Jewish Hospital at Washington University Medical Center, the NIH, and donations. Estimates are based on clinical factors and (when available) genotypes of two genes: cytochrome P450 2C9 (CYP2C9) and vitamin K epoxide reductase (VKORC1). Recommendations on this Web site are based on data from over 1000 patients. Once information is entered onto the next page, the initial estimate of therapeutic dose explains 53% of the variability in a warfarin dose. If you return to the Web site and enter an INR value after 3 and/or 4 warfarin dose, the dose refinement is even more accurate. Source: warfarindosing.org Clinical Resource: Calculator Register to Access Content: No Last Checked: 17/02/14 Link Error: Report It Crystalline warfarin, Sofarin, Coufarin, Athrombin-K) is the most widely used oral anticoagulant in the world. Warfarin interferes with the hepatic synthesis of the vitamin-K dependent coagulation factors by interfering with the vitamin K cycle. Laboratory monitoring of warfarin therapy is mandatory, since the agent has a relatively narrow therapeutic range. Source: Educational Resource Register to Access Content: No Last Checked: 17/02/14 Link Error: Report It Routine laboratory Checked: 17/02/14 Link Error: Report It Heparin therapy requires rigorous laboratory monitoring with the activated partial thromboplastim time (aPPT), since its bioavailability is variably affected by binding to plasma and cellular proteins. Unfractionated heparin, which has a longer halflife and more predictable bioavailability. Source: pathology.vcu.edu Clinical Resource: Educational Resource: Calculator Register to Access Content: No Last Checked: 17/02/14 Link Error: Report It Heparin Dosing Protocols Source: globalrph.com Clinical Resource: Calculator Register to Access Content: No Last Checked: 17/02/14 Link Error: Report It Heparin Dosing Protocols Source: globalrph.com Clinical Resource: Calculator Register to Access Content: No Last Checked: 17/02/14 Link Error: Report It Heparin Dosing Protocols Source: globalrph.com Clinical Resource: Calculator Register to Access Content: No Last Checked: 17/02/14 Link Error: Report It Heparin Dosing Protocols Source: globalrph.com Clinical Resource: Calculator Register to Access Content: No Last Checked: 17/02/14 Link Error: Report It Heparin Dosing Protocols Source: globalrph.com Clinical Resource: Calculator Register to Access Content: No Last Checked: 17/02/14 Link Error: Report It Heparin Dosing Protocols Source: globalrph.com Clinical Resource: Calculator Register to Access Content: No Last Checked: 17/02/14 Link Error: Report It Heparin Dosing Protocols Source: globalrph.com Clinical Resource: Calculator Register to Access Content: No Last Checked: 17/02/14 Link Error: Report It Heparin Dosing Protocols Source: globalrph.com Clinical Resource: Calculator Register to Access Content: No Last Checked: 17/02/14 Link Error: Report It Heparin Dosing Protocols Source: globalrph.com Clinical Resource: Calculator Register to Access Content: No Last Checked: 17/02/14 Link Error: Report It Heparin Dosing Protocols Source: globalrph.com Clinical Resource: Calculator Register to Access Content: No Last Checked: 17/02/14 Link Error: Report It Heparin Dosing Protocols Source: Globalrph.com Clinical Resource: Calculator Resource: C Amiodarone monitoring protocol Derbyshire Medicine Management Prescribing and Guidelines Source: derbyshiremedicinesmanagement.nhs.uk Clinical Resource: Protocol Register to Access Content: No Last Checked: 19/08/15 Link Error: Report It Antimicrobial Therapeutic Level Monitoring & Dosing Guidelines East Kent Hospitals University NHS Foundation Trust Aminoglycosides: Gentamicin Amikacin Tobramycin Glycopeptides: Antifungals: Flucytosine Itraconazole Voriconazole Source: ekhuft.nhs.uk Clinical Resource: Guidelines Register to Access Content: No Last Checked: 17/02/14 Link Error: Report It Aminoglycoside Conventional Dosing and Monitoring in Adults Source: cumc.columbia.edu Clinical Resource: Reference Register to Access Content: No Last Checked: 19/08/15 Link Error: Report It Aminoglycoside antibiotics have limited tissue distribution, are dependent on renal elimination, and have a narrow therapeutic index. Thus, careful selection of empiric dosing regimens and serum level monitoring are needed to ensure safety and efficacy of these drugs. There are several approaches to dosing aminoglycosides: High-Dose, Extended-Interval Dosing ("Traditional") Gram-Postive Combination Dosing ("Synergy") Source: idmp.ucsf.edu Clinical Resource: Recommendations Register to Access Content: No Last Checked: 19/08/15 Link Error: Report It Guideline for Prescribing Gentamicin to Adults Western Sussex Hospitals NHS Source: gp.westernsussexhospitals.nhs.uk Clinical Resource: Guideline Register to Access Content: No Last Checked: 19/08/15 Link Error: Report It Gentamicin Dose Calculator for Adult Patients Source: scottishmedicines.org Clinical Resource: Calculator Register to Access Content: No Last Checked: 20/08/14 Link Error: Report It Once Daily Gentamicin in Adults Dose Calculator Register to Access Content: No Last Checked: 17/02/14 Link Error: Report It Intravenous Vancomycin Dose Calculator for Adult Patients Source: scottishmedicines.org Clinical Resource: Calculator Register to Access Content: No Last Checked: 20/08/15 Link Error: Report It "There is little evidence to support a direct relationship between high trough or peak serum teicoplanin concentrations and most of the known toxicities" Source: asainc.net.au Clinical Resource: Newsletter Register to Access Content: No Last Checked: 17/02/14 Link Error: Report It Several factors must be considered in determining the role of therapeutic drug assay must be readily available to the clinician. Two pharmacological features then determine the relevance of monitoring of concentrations of drug in blood. The foremost variable is an unpredictable drug dose-exposure relationship between concentrations of drug in blood and either toxicity or treatment efficacy. Consideration of these pharmacological variables for available antifungal compounds is the focus of this review. Source: asm.org Clinical Resource: Journal Article Register to Access Content: No Last Checked: 17/02/14 Link Error: Report It The pharmacokinetic parameters and pharmacokinetic parameters and pharmacokinetic structure. Source: eahp.eu Clinical Resource: Journal Article Register to Access Content: No Last Checked: 17/02/14 Link Error: Report It The article thus aims to provide all UK GPs with clear instructions on how to prescribe and monitor the DMARDs in regular use in the UK. Content: No Last Checked: 17/02/14 Link Error: Report It Collation of comparative bioequivalence data for ciclosporin, tacrolimus and mycophenolate mofetil products plus NHS list prices as quoted in MIMS. Source: esprit.org.uk Clinical Resource: List and Data Register to Access Content: No Last Checked: 22/11/16 Link Error: Report It CCR5 Inhibitors NNRTIs Nucleoside RTIs Nucleoside R in Hepatic Impairment Source: ashm.org.au Clinical Resource: Table Register to Access Content: No Last Checked: 05/01/15 Link Error: Report It ARV Renal Dose Adjustments Source: Table Register to Access Content: No Last Checked: 05/01/15 Link Error: Report It ARV Renal Dose Adjustments Source: Table Register to Access Content: No Last Checked: 05/01/15 Link Error: Report It ARV Renal Dose Adjustments Source: Table Register to Access Content: No Last Checked: 05/01/15 Link Error: Report It ARV Renal Dose Adjustments Source: Table Register to Access Content: No Last Checked: 05/01/15 Link Error: Report It ARV Renal Dose Adjustments Source: Table Register to Access Content: No Last Checked: 05/01/15 Link Error: Report It ARV Renal Dose Adjustments Source: Table Register to Access Content: No Last Checked: 05/01/15 Link Error: Report It ARV Renal Dose Adjustments Source: Table Register to Access Content: No Last Checked: 05/01/15 Link Error: Report It ARV Renal Dose Adjustments Source: Table Register to Access Content: No Last Checked: 05/01/15 Link Error: Report It ARV Renal Dose Adjustments Source: Table Register to Access Content: No Last Checked: 05/01/15 Link Error: Report It ARV Renal Dose Adjustments Source: Table Register to Access Content: No Last Checked: 05/01/15 Link Error: Report It ARV Renal Dose Adjustments Source: Table Register to Access Content: No Last Checked: 05/01/15 Link Error: Report It ARV Renal Dose Adjustments Source: Table Register to Access Content: No Last Checked: 05/01/15 Link Error: Report It ARV Renal Dose Adjustments Source: Table Register to Access Content: No Last Checked: 05/01/15 Link Error: Report It ARV Renal Dose Adjustments Source: Table Register to Access Content: No Last Checked: 05/01/15 Link Error: Report It ARV Renal Dose Adjustments Source: Table Register to Access Content: No Last Checked: 05/01/15 Link Error: Report It ARV Renal Dose Adjustments Source: Table Register to Access Content: No Last Checked: 05/01/15 Link Error: Report It ARV Renal Dose Adjustments Sour washington.edu Clinical Resource: Tables Register to Access Content: No Last Checked: 05/01/15 Link Error: Report It

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