cefuroxime iv pharmacokinetics

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Staphylococcus aureus which produce beta-lactamase or S. Primarily excreted in urine by renal tubular secretion and glomerular filtration; elimination half-life is 1 to 2 hours in patients with normal renal function; end-stage renal disease prolongs half-life 15 to 22 hours. Cefuroxime also causes false elevations in serum or urine creatinine levels in tests using Jaffe reaction. Thomas Beecham Silas M. After oral administration cefuroxime axetil is well absorbed. Acetaldehyde dehydrogenase inhibitors Cephalosporin antibiotics Enantiopure drugs Furans Oximes Carbamates. Like other cephalosporins it consists of a dihydrothiazine ring fused to a beta-lactam ring containing an appropriate side chain at position 7. Inhibit PG chain elongation: Thus cefuroxime is also a bactericidal drug. Children who can swallow pills: Cefuroxime axetil is an acetoxyethyl-ester-prodrug of cefuroxime which is effective orally. Hence, it may have greater activity against Haemophilus influenzae , Neisseria gonorrhoeae , and Lyme disease.Eur J Clin Pharmacol. Nov 14;12(3) The pharmacokinetics of cefuroxime after intravenous injection. Gower PE, Dash CH. Cefuroxime, a new cephalosporin antibiotic which is stable to most beta-lactamases produced by gram-negative bacteria, was given by bolus intravenous injection to six volunteers in doses. J Vet Pharmacol Ther. Feb;39(1) doi: /jvp Epub May Pharmacokinetics of cefuroxime after intravenous, intramuscular, and subcutaneous administration to dogs. Albarellos GA(1), Montoya L(1), Lorenzini PM(1), Passini SM(1), Lupi MP(1), Landoni MF(2). Author information: (1)Catedra de. (1)Pharmacology Department, Faculty of Veterinary Medicine, Cairo University, Giza , Egypt. The pharmacokinetics of cefuroxime sodium, 20 and 40 mg kg(-1), were studied after i.v. and intramuscular injections in goats. Following single i.v. injections the serum concentration time curves of cefuroxime sodium were. Cefuroxime, a new cephalosporin antibiotic which is stable to most ?-lactamases produced by Gram-negative bacteria, was given by bolus intravenous injection to six volunteers in doses of mg and. , or g of cefuroxime acid. Final volumes for intramuscular injection were , , , and 5 ml for the respective doses. For intravenous injection the antibiotic was made up in a sterilefiltered solu- tion in water to a final volume of 10 ml irrespective of dose size. Vials of cephaloridine (Ceporin) con- taining g were. Cefuroxime. Targets (1)Transporters (2)Biointeractions (3). Identification. Name: Cefuroxime; Accession Number: DB (APRD); Type: Small Molecule; Groups: Approved; Description. Broad-spectrum . Approximately 80 minutes following intramuscular or intravenous injection. Clearance: Not Available; Toxicity. Figure 3. Mean serum concentrations of cefuroxime after i.v. injection of mg in 6 patients. Pharmacokinetics. Serum concentrations of cefuroxime after the first dose were satisfactory (Table II;. Figures 2 and 3). Peak concentrations following i.m. injections were obtained between. 1/2 and 2 h after a dose and the means. May 18, - Cefuroxime pharmacokinetic profile was investigated in 6 Beagle dogs after single intravenous, intramuscular, and subcutaneous administration at a dosage of 20 mg/kg. Blood samples were withdrawn at predetermined times over a h period. Cefuroxime plasma concentrations were determined by. Cefuroxime is primarily eliminated by the kidney. In patients with hepatic dysfunction this is not expected to affect the pharmacokinetics of cefuroxime. Method of administration. Cefuroxime should be administered by intravenous injection over a period of 3 to 5 minutes directly into a vein or via a drip tube or infusion over The pharmacokinetics of cefuroxime sodium, 20 and 40 mg kg1, were studied after i.v. and intramuscular injections in goats. Following single i.v. injections the serum concentration time curves of cefuroxime sodium were best fitted to a two-compartment open model. The drug was rapidly distributed with half-lives of.