atorvastatin pharmacokinetics linear

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Plasma levels of atorvastatin and its active and inactive metabolites were measured by LC/MS/MS, and pharmacokinetic parameters (Cmax, tmax, AUC, t1/2) compared between single and multiple dosing, . The area under the plasma concentration?time curve (AUC) was estimated by use of the linear trapezoidal method.?Abstract ?Introduction ?Subjects and methods ?Results. Atorvastatin lowers plasma low-density lipoprotein (LDL) cholesterol levels by inhibition of HMG-CoA reductase. The mean dose-response relationship has been shown to be log-linear for atorvastatin, but plasma concentrations of atorvastatin acid and its metabolites do not correlate with LDL-cholesterol reduction at a given. Pharmacokinetics and Drug Metabolism. Absorption: Atorvastatin is rapidly absorbed after oral administration; maximum plasma concentrations occur within 1 to 2 hours. Extent of absorption increases in proportion to atorvastatin dose. The absolute bioavailability of atorvastatin (parent drug) is approximately 14% and the. Feb 1, - Atorvastatin has rapid oral absorption with an approximate time to maximum plasma concentration (Tmax) of 12 hours. The absolute bioavailability of atorvastatin is approximately 14%, however, the systemic availability for HMG-CoA reductase activity is approximately 30%. Atorvastatin undergoes high. Jul 1, - pharmacokinetic and safety grounds. The two extremes of the strength range have been investigated due to the non-linear kinetics of atorvastatin, and it was concluded that the evidence of bioequivalence demonstrated for the 5mg and 40mg chewable tablets can be extrapolated to the 10mg and 20mg. Mar 20, - therapy with other CYP 3A4 inhibitors (see Pharmacokinetic Interactions; DRUG. INTERACTIONS, Drug-Drug Interactions; DETAILED PHARMACOLOGY, Human. Pharmacokinetics). The concurrent use of atorvastatin and fusidic acid should be avoided, therefore, significant linear dose trend. May 25, - linear pharmacokinetic situations was specified. Global regulatory opinions on the measurement of active metabolites and on the selection of the dose strength(s) to be studied for BE assessments were still evolving during the time when the studies to support the development of atorvastatin ST and CT. Dec 15, - Received 11 Nov Revised 11 Dec Accepted 11 Dec Keywords. Atorvastatin,. Ezetimibe,. Pharmacokinetics,. Drug interaction . For atorvastatin and its metabolite (2-hydroxyatorvastatin), calibration curves were linear in the range of ng/mL (correlation coef- ficient, r>) with. To identify pharmacokinetic (PK) drug-drug interactions between tipranavir-ritonavir (TPV/r) and rosuvastatin and atorvastatin, we conducted two prospective, . After single-dose administration, the area under the concentration-time curve from 0 h to infinity (AUC0-?) was calculated using the linear-log trapezoidal rule. Jump to Pharmacokinetics - Pharmacokinetics[edit]. This section needs additional citations for verification. Please help improve this article by adding citations to reliable sources. Unsourced material may be challenged and removed. (December) (Learn how and when to remove this template message).