

Download How To Calculate Elimination Rate Constant

Cecilia, The accuracy of estimating accumulation ratio using the first equation depends on the accuracy of the elimination rate constant. If the rate constant is well estimated after repeated administration, and the compound does not exhibit non-linear clearance, then the estimated accumulation ratio is reasonably accurate.² 1 General overview: clinical pharmacokinetics The ultimate aim of drug therapy is to achieve efficacy without toxicity. This involves achieving a plasma concentration (C_p) within the 'therapeutic window', i.e. above the minimum effective concentration and below the minimum toxic concentration. Creating a one-compartment model. Introduction. The one feature that the RxKinetics family of pk programs have in common is the ability to edit the default drug models. PK parameters: Vancomycin kinetics depends on two PK parameters: Volume of distribution (V) and elimination rate constant (K). To calculate an initial dose these parameters are estimated based on population kinetics.