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Mostafa Ghandehari* (ghandeha@uta.edu) and **Shiva Keramati.** *Discrete Two-compartmental Pharmacokinetics Model.*

A system of differential equations for two-compartmental model of pharmacokinetics is given. Discrete approximation of the system will result in a system of difference equations. Eigenvalues and eigenvectors are used to find powers of a matrix which yield approximate solution of the system. Examples of medications for two-compartmental models are discussed. (Received January 08, 2017)