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Mostafa Ghandehari*, ghandeha@uta.edu, and **Fred Kashefi**. *An application of Z transform in pharmacokinetics*. Preliminary report.

Discrete Z transform is used to solve difference equations in pharmacokinetics for constant dosage in fixed time intervals. Difference equations for half dosage and fractional dosage are analyzed. Clinical applications are discussed. (Received January 15, 2016)