

To Print: Click your browser's **PRINT** button.

NOTE: To view the article with Web enhancements, go to:

<http://www.medscape.com/medline/abstract>

Population study of triazolam pharmacokinetics.

Br J Clin Pharmacol. 1986; 22(6):639-42 (ISSN: 0306-5251)

Friedman H ; Greenblatt DJ ; Burstein ES ; Harmatz JS ; Shader RI

The kinetics of a single 0.5 mg oral dose of the triazolobenzodiazepine hypnotic triazolam, were studied in 54 healthy young men aged 20-44 years, with a mean body weight of 77 kg. Triazolam kinetics were determined from multiple plasma concentrations measured during 14 h post-dose. The overall mean +/- s.e. mean (with range) kinetic variables were: peak plasma concentration, 4.4 +/- 0.3 (1.7-9.4) ng ml⁻¹; time of peak, 1.3 +/- 0.1 (0.5-4.0) h after dose; elimination half-life, 2.6 +/- 0.1 (1.1-4.4) h; total AUC: 19.1 +/- 1.1 (4.4-47.7) ng ml⁻¹ h; oral clearance, 526 +/- 38 (175-1892) ml min⁻¹. All kinetic variables were consistent with Poisson distributions, based on the Kolmogorov-Smirnov Goodness of Fit test. None of the variables fit normal distributions. Four of five were consistent with a log normal distribution. Peak plasma level was highly correlated with clearance ($r = -0.85$, P less than 0.0001), and AUC ($r = 0.85$, P less than 0.0001) but not with body weight ($r = 0.21$, NS). Clearance and body weight were not correlated ($r = -0.01$). Triazolam clearance may vary widely even within a homogeneous group of healthy young men.

PreMedline Identifier: 3567010
