Theophylline Pharmacokinetics data codebook

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Source: This data set is from a pharmacokinetic study of a single oral dose of the anti-asthma medication, theophylline, in 12 subjects, published around 1980 by Robert A. Upton. Blood was drawn at 11 time points over the next 25 hours to determine the plasma concentration of theophylline.

This dataset was used for a statistical textbook, without citing the original study, or crediting the original authors for collecting the data.

This dataset is is one of the core datasets package in base R. It can be used for examples of line plots over time, grouped by subject, and non-linear modeling, including general additive models (GAMs).

Codebook

variable	position Variable_Label	units	Cod e spe
Subject	1 Subject ID		ordinal factor
Wt	2 Subject Weight	kg	double
Dose	3 Dose of Theophylline in milligrams per kilogram of body weight	mg/kg	double
Time	4 Time after dosing	hours	double
conc	4 Concentration of Theophylline in the plasm in micrograms per milliliter	na mcg/mL	double