

Figure S1. Population PK model schema.

Dose (oral)

K_a , first-order absorption,
varies with fed state

Central Compartment (Plasma):
Volume scales with weight
(allometric) and varies with
age category

Peripheral
Compartment

Michaelis-Menten Clearance (V_{max} and K_m):
 V_{max} varies with weight, age category, and
time of day (AM vs PM)

K_a , absorption rate constant; K_m , concentration at half V_{max} ; PK, pharmacokinetics;
 V_{max} , maximum velocity at very high concentration of the substrate.