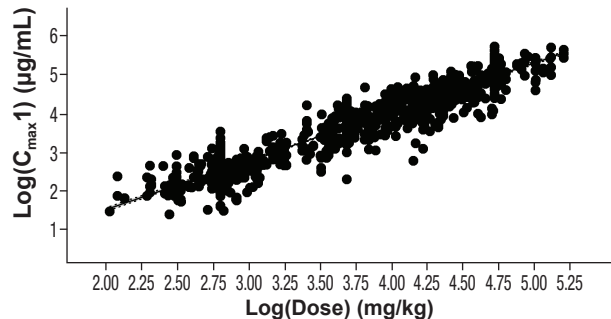**Figure S4.** Simulated SXB exposure in pediatric and adult participants by mg/kg dosage.
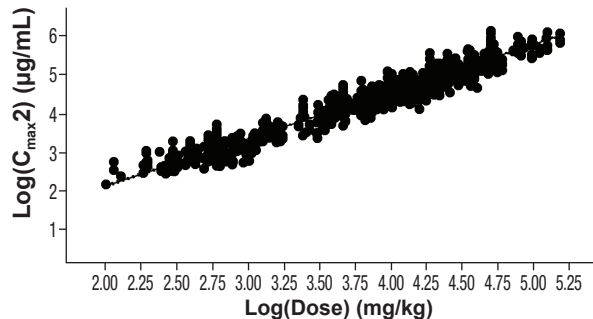
A

$C_{max}1$ vs dose in mg/kg

Y = −0.719 + 1.19*X. 90% CI of slope = (1.17, 1.21).
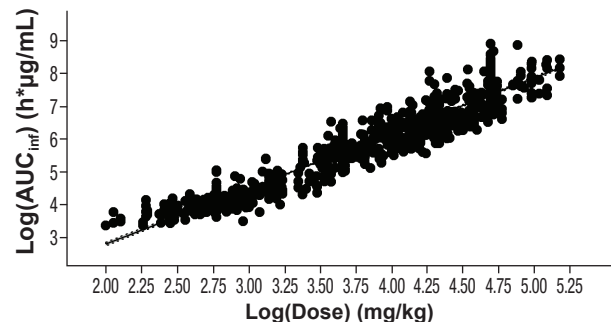SE of slope = 0.0143. SD of residual error = 0.326.

B

$C_{max}2$ vs dose in mg/kg

Y = −0.326 + 1.24*X. 90% CI of slope = (1.23, 1.26).
SE of slope = 0.0106. SD of residual error = 0.242.
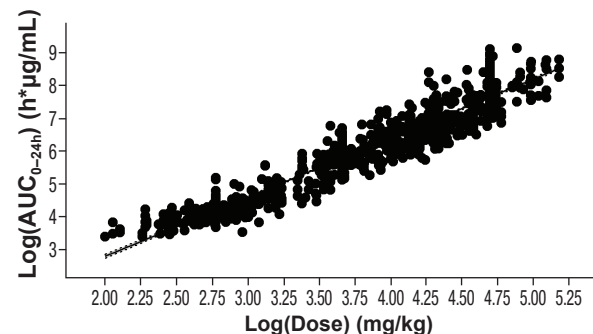
C

AUC_{inf} vs dose in mg/kg

Y = −0.609 + 1.68*X. 90% CI of slope = (1.65, 1.71).
SE of slope = 0.018. SD of residual error = 0.41.

D

AUC_{0-24h} vs dose in mg/kg

Y = −0.605 + 1.68*X. 90% CI of slope = (1.65, 1.71).
SE of slope = 0.0179. SD of residual error = 0.408.

The black circles denote individual simulated values from log transformation. The solid lines denote linear regression of log-transformed data. AUC_{inf}, area under the concentration-time curve from 0 to infinity; AUC_{0-24h}, area under the concentration-time curve from 0 to 24 hours; C_{max}, maximal concentration; SXB, sodium oxybate.