

**Supplemental Table S1.** Population pharmacokinetic parameter estimates of RPT and desRPT.

<b>Parameter</b>	<b>Estimate</b>	<b>%RSE</b>
CL (liters/h)	1.13	6
V (liters)	33	7
K <sub>a</sub> (h <sup>-1</sup> )	0.83	7
MTT(h)	1.1	30
Food on bioavailability	1.31	-
Bioavailability for 1500 and 1800 mg dose	0.65	
Bioavailability for 1200 and 1350 mg dose	0.82	-
CL <sub>m</sub> /F <sub>m</sub>	1.6	5
V <sub>m</sub> /F <sub>m</sub>	4.2	13
<b>Interindividual Variability (%CV)</b>		
η <sub>CL</sub>	26	25
Π <sub>F</sub>	24	31
η <sub>CLm</sub>	25	12
Covariance η <sub>CL</sub> ~ η <sub>v</sub> (covariance and correlation)	0.0684(0.98)	
<b>Residual variability</b>		
Proportional error for rifapentine	0.62	3
Proportional error for desRPT	0.66	4