

				Final model	Non-parametric bootstrap	
				Estimate	Median	95% CI
Structural model parameters						
KA (1/h)	$\exp(\theta_1)$	First order absorption rate constant		1.56	1.57	1.39, 1.78
V2/F (L)	$\exp(\theta_2)$	Apparent central volume		61.5	61.5	58.3, 65.1
CL/F (L/h)	$\exp(\theta_3)$	Apparent clearance		3.23	3.23	3.07, 3.42
V3/F (L)	$\exp(\theta_4)$	Apparent peripheral volume		67.3	67.3	65.0, 69.8
Q/F (L/h)	$\exp(\theta_5)$	Apparent intercompartmental clearance		3.61	3.61	3.37, 3.86
Covariate effect parameters						
CL/F ~ eGFR	θ_6	eGFR effect on CL/F		0.485	0.484	0.408, 0.558
CL/F ~ Age	θ_7	Age effect on CL/F		-0.0378	-0.0386	-0.167, 0.0876
CL/F ~ ALB	θ_8	Serum albumin effect on CL/F		0.419	0.420	0.294, 0.587

Parameters estimated in the log-domain were back transformed for clarity

The confidence interval was determined from the 2.5th and 97.5th percentiles of the non-parametric bootstrap (n=1000) estimates.

Abbreviations: CI = confidence interval

Source code: pk-final-model-table-boot.R

Source file: pk-param-boot-fixed.tex

		Final model		Non-parametric bootstrap	
		Estimate	Shrinkage (%)	Median	95% CI
Interindividual variance parameters					
IIV-KA	$\Omega_{(1,1)}$	0.219 [CV%=49.4]	14.1	0.218	0.130, 0.331
IIV-V2/F	$\Omega_{(2,2)}$	0.0824 [CV%=29.3]	5.22	0.0821	0.0643, 0.101
IIV-CL/F	$\Omega_{(3,3)}$	0.114 [CV%=34.8]	0.942	0.112	0.0896, 0.140
Interindividual covariance parameters					
V2/F-KA	$\Omega_{(2,1)}$	0.0668 [Corr=0.498]	-	0.0656	0.0328, 0.108
CL/F-KA	$\Omega_{(3,1)}$	0.121 [Corr=0.767]	-	0.121	0.0805, 0.173
CL/F-V2/F	$\Omega_{(3,2)}$	0.0704 [Corr=0.725]	-	0.0696	0.0525, 0.0882
Residual variance					
Proportional	$\Sigma_{(1,1)}$	0.0399 [CV%=20.0]	5.02	0.0400	0.0376, 0.0424

The confidence interval was determined from the 2.5th and 97.5th percentiles of the non-parametric bootstrap (n=1000) estimates.

Abbreviations: CI = confidence interval; Corr = correlation coefficient; CV = coefficient of variation

CV% of log-normal omegas = $\sqrt{\exp(\text{estimate}) - 1} \cdot 100$

CV% of sigma = $\sqrt{\text{estimate}} \cdot 100$

Source code: pk-final-model-table-boot.R

Source file: pk-param-boot-random.tex