Table S1 Population pharmacokinetic parameter estimates from the base model

Parameter	Estimate	RSE	shrinkage	
Fixed Effects				
TVCL[L/h]	1.63	7%		
TVV[L]	20.6	10%		
Between-subject				
Variability (BSV ^a)				
BSV_CL [%CV]	38.70%	14%	6%	
Residual Variability (RV)				
Proportional Error [%CV]	26%	16%	15%	

^aBSV calculated as $\sqrt{e^{\omega^2}-1}$

Table S2 Linezolid PopPK parameter estimates from the final model and bootstrap results

	Final model		shrinkage			Dia.
Parameter	Estimate	RSE(%)	2.5th	Median	97.5 th	Bias
			percentile	Estimate	percentile	
$\theta_{\text{CL}}[\text{L/h}]$	0.994	16	0.67	0.98	1.32	-1.34
$\theta_{V}[L]$	20.7	10	16.45	20.91	24.85	1.00
CrCL on CL (θ_1)	0.525	22	0.28	0.53	0.77	1.20
Inter-individual						
variability						
ω _{CL} [%]	30.4	30	19.24	29.52	38.39	-2.91
Residual Variability						
$\sigma_{pro}(\%)$	25.1	16	20.82	24.85	28.74	-0.99

PopPK, population pharmacokinetic; RSE(%), relative standard error; θ_{CL} , typical value of apparent clearance; θ_V , typical value of apparent volume of distribution; θ_1 , allometric value for CrCL as covariate for CL; ω_{CL} , square root of inter-individual variance for CL; σ_{pro} , residual variability for proportional error.

Bias (%)=(Median Estimate Bootstrap - Estimate Final model)/Estimate Final model × 100%

Figure S1

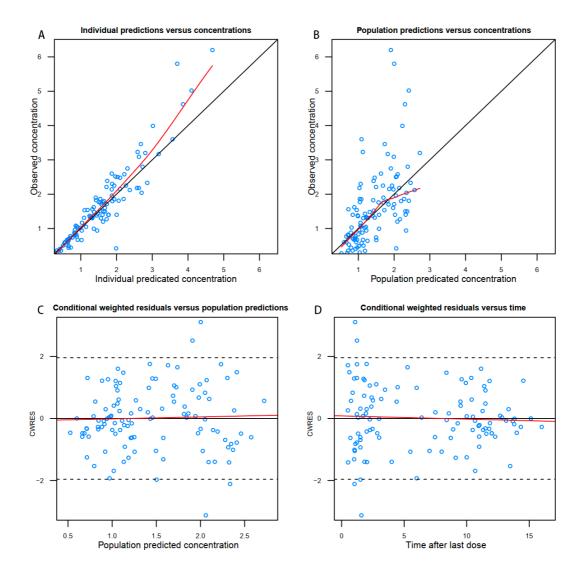


Figure S1. Diagnostic goodness-of-fit plots of the base model. (A) Observed concentration (DV) vs. individual predicted concentration (IPRED); (B) DV vs. population predicted concentration (PRED); (C) conditional weighted residuals (CWRES) vs. PRED; and (D) CWRES vs. time. The red lines in the upper panel represent loess smooth lines and linear fit lines, respectively.

Figure S2

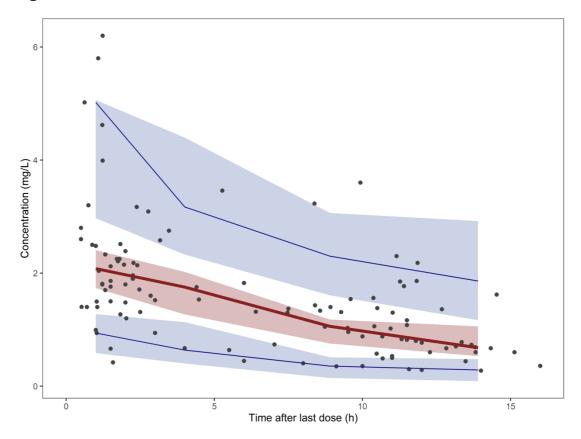


Figure S2. Prediction- and variability-corrected visual predictive check (pvcVPC) plot of the final model. The red solid lines represent the median observed concentration, and the semitransparent red fields represent the simulation-based 95% confidence intervals (CIs) for the median. The observed 5th and 95th percentiles are represented by red dashed lines, and the 90% CIs for the corresponding model predicted percentiles are shown as semitransparent blue fields. The observed concentrations are represented by dark dots.