

Supplementary Materials

Derivation of human toxicokinetic parameters and internal threshold of toxicological concern for tenuazonic acid using a human intervention trial and hierarchical Bayesian population modeling

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Figure S1: correlation plot between predicted and experimental blood and urine data for tenuazonic acid (TeA) and its phase-II metabolites for the individual volunteers.

Figure S2: cross-correlation plot between TK model's parameters. Total clearance of TeA (Cl_{tot}), clearance of TeA's metabolites (Cl_{met}), fraction of TeA excreted in urine (k_{ufrac}), volume of distribution of TeA (V_{dist}), volume of distribution of TeA's metabolites, gut absorption rate (k_{gutabs}), fraction of TeA metabolized (F_{gluc}).

Figure S3: The prior and posterior distributions of the parameter population means and standard deviations. Mean (M), standard deviation (SD), total clearance of TeA (Cl_{tot}), clearance of TeA's metabolites (Cl_{met}), fraction of TeA excreted in urine (k_{ufrac}), volume of distribution of TeA (V_{dist}), volume of distribution of TeA's metabolites, gut absorption rate (k_{gutabs}), fraction of TeA metabolized (F_{gluc}).

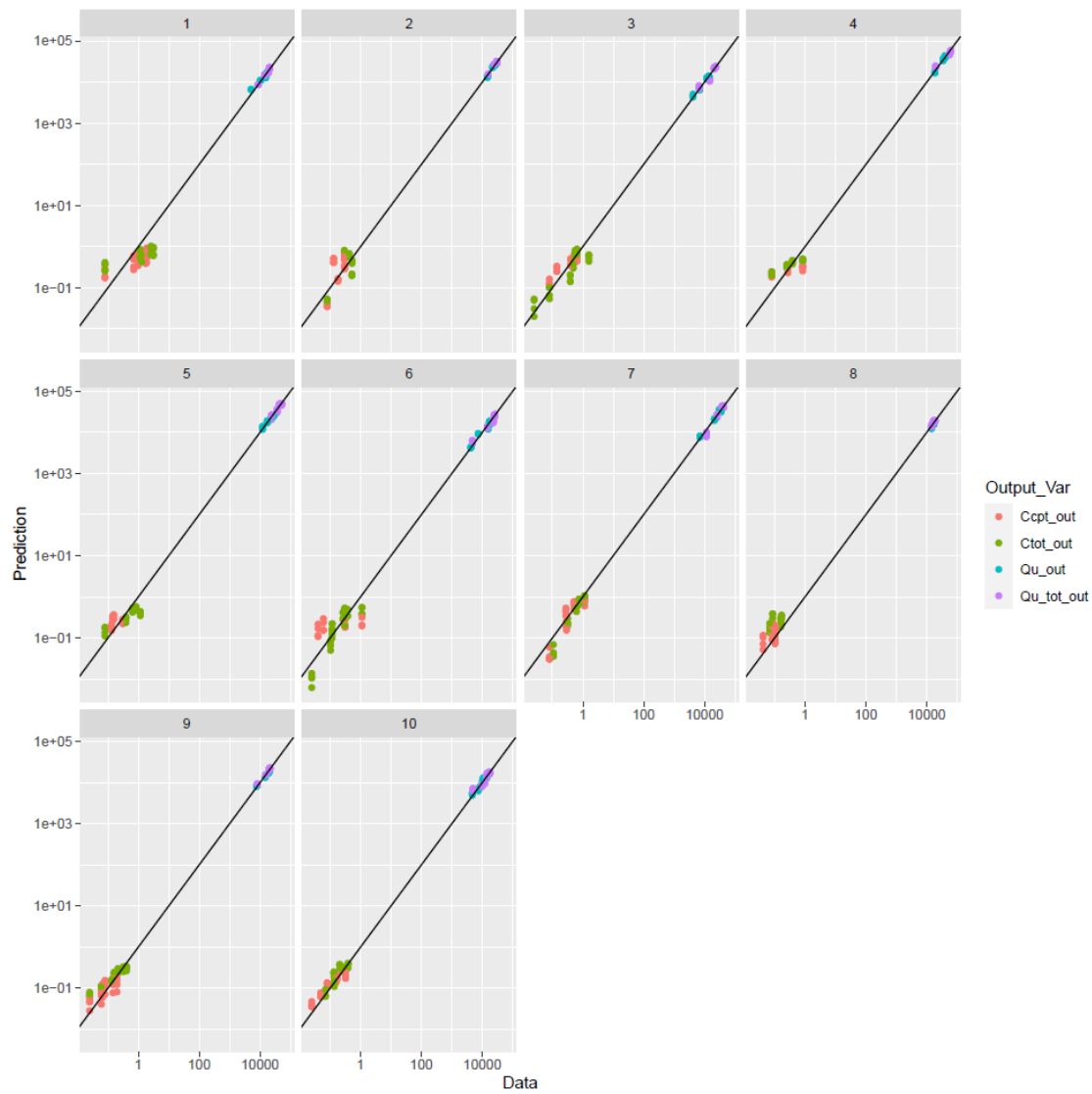


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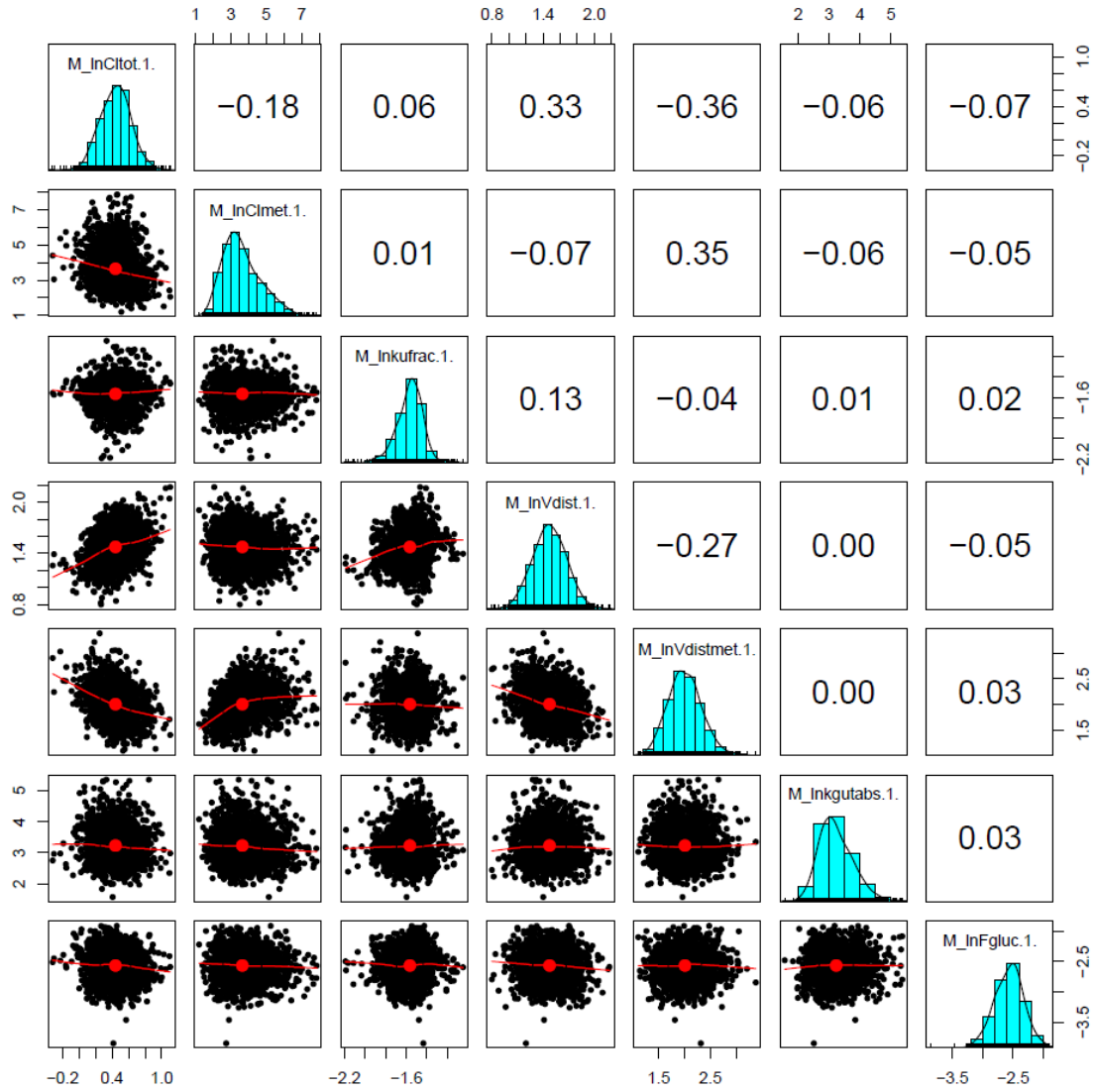


Figure S2: cross-correlation plot between TK model's parameters. Total clearance of TeA (Cl_{tot}), clearance of TeA's metabolites (Cl_{met}), fraction of TeA excreted in urine (k_{ufrac}), volume of distribution of TeA (V_{dist}), volume of distribution of TeA's metabolites, gut absorption rate (k_{gutabs}), fraction of TeA metabolized (F_{gluc}).

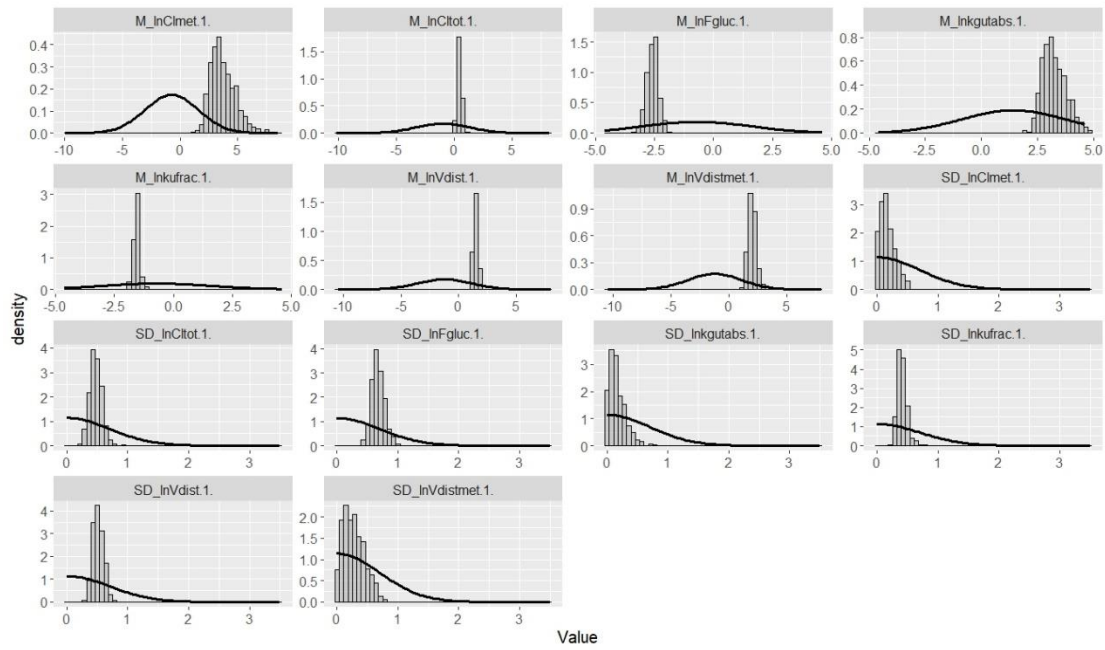


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