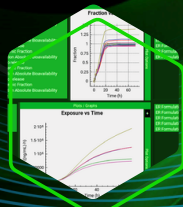


GastroPlus® Metabolism & Transporter

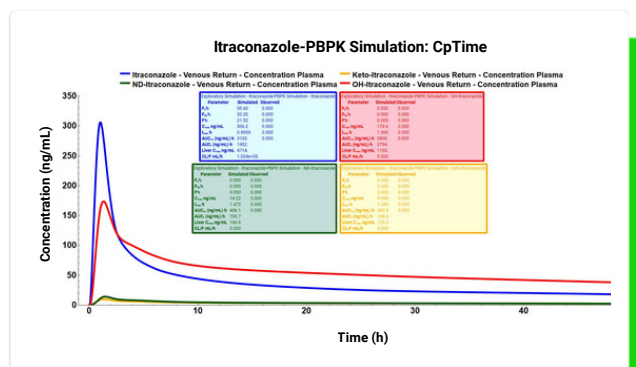
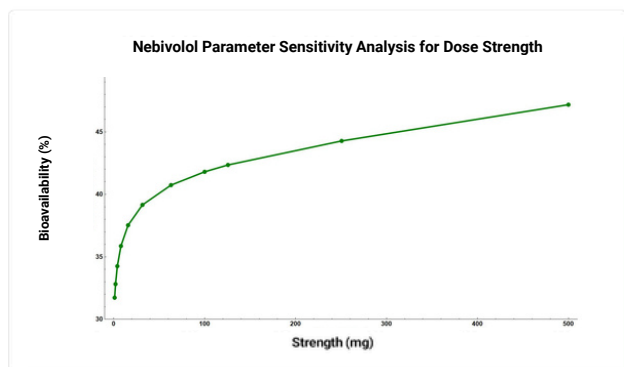


Extend your mechanistic modeling to fully utilize your *in vitro* data and model complex scenarios.

Having this module is the only way to model non-linearity in enzyme/transporter kinetics, or model prodrugs/metabolites.

It allows you to:

- Model non-linearity in pharmacokinetics in any tissue, often a key requirement for accurately predicting intestinal metabolism and active transport.
- Predict the pharmacokinetics of metabolites and metabolites of metabolites to fully detail the fate of a drug.



- Automatically scale measured *in vitro* clearance to *in vivo* clearance for any specific population, avoiding errors in manual calculations, to account for changes in exposure such as those related to disease.
- Model a prodrug and parent, an increasingly popular approach in the pharmaceutical industry.
- Perform transporter-based IVIVE for uptake-limited drugs using *in vitro* diffusional clearance and transporter kinetics (K_m , V_{max}), as transporters can often play a crucial role in drug disposition.