

# Quantitative Pharmacology and Pharmacometrics



In today's fast-paced drug development environment, data is produced at an exponential rate. Efficient extraction of knowledge from the data to support development is becoming a cornerstone of success. Model-informed drug development specifically aims to extract this knowledge, identify knowledge gaps, and quantify the degree of uncertainty associated with it. Armed with this knowledge, you can make enlightened decisions on the next steps of your drug development program.

## The Pharmacometrics Group at Syneos Health™ Support Sponsors With All Their Quantitative Modeling and Analysis Needs:

- IVIVC modeling
- Scaling PK/PD animal data to humans (allometric, PBPK)
- Population PK/PD modeling
- Exposure-Response (toxicity and/or efficacy) modeling
- Drug-Drug interaction simulations
- Pediatric study design and simulations
- Clinical Trial simulations
- In silico bioequivalence testing

## Contact Information:

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## The Pharmacometrics Group Gives Sponsors:

- The ability to identify failure points or missing information, which contributes to more targeted research efforts while saving money in the process
- Clarity on the relationship between drug exposure and clinical response, adverse events, or biomarkers
- Assurance that a study design will, indeed, produce the key outcome needed, at the right level, within the right population

## About Syneos Health

Syneos Health™ (Nasdaq:SYNH) is the only fully integrated biopharmaceutical solutions organization. Our company, including a Contract Research Organization (CRO) and Contract Commercial Organization (CCO), is purpose-built to accelerate customer performance to address modern market realities. Created through the merger of two industry leading companies – INC Research and inVentiv Health – we bring together more than 21,000 clinical and commercial minds with the ability to support customers in more than 110 countries. Together we share insights, use the latest technologies and apply advanced business practices to speed our customers' delivery of important therapies to patients. To learn more about how we are shortening the distance from lab to life™ visit [SyneosHealth.com](https://www.SyneosHealth.com).