

Advanced Features of NONMEM 7 Workshop for ACoP 2019

Date: Sunday, 20th October 2019

Time: 08:30 - 18:00

Location: Rosen Shingle Creek Hotel, Orlando, Florida

Timezone: (GMT -5:00) Eastern Time (US & Canada), Bogota, Lima

A one-day NONMEM 7 course will be presented by ICON at the ACoP 2019 Convention

The objective of this course is to introduce advanced concepts of population pharmacokinetics in NONMEM. The course is targeted to individuals interested in solving population PK/PD problems using the new stochastic methods and for those who are familiar with classic NONMEM methods (first order (FO)/first order conditional estimation (FOCE)/Laplace), and with constructing control stream files. Most of the course is instructional, with several hands-on examples for attendee participation. A thorough discussion of stochastic approximation expectation maximization (SAEM), Importance sampling (IMP), and Markov chain Monte Carlo Bayesian analysis (Gibbs BAYES sampling and new in NONMEM7.4: Hamiltonian no-U turn sampling(NUTS)) will be presented, along with hands-on exercises. In addition, the FAST algorithm for FOCE analysis, new in NONMEM 7.4, will be introduced. After attending this course, the participant will know how to use advanced stochastic methods for analyzing population PK/PD data; structure the models into a MU-referencing format that will greatly increase the efficiency of the analyses; apply prior information from previous analyses to the present data; create population mixture models; create models for categorical data; use new abbreviated code features for easier modeling of inter-occasion variability; model additional mixed effects levels for grouping individuals, such as inter-clinical site variability; use the DO loop feature in abbreviated code, such as for handling multiple bolus doses in transit compartment models that use the analytical absorption function.

Additional topics covered are: parallel computing and dynamic memory allocation for efficient memory usage; symbolic referencing to thetas, etas, and sigmas; Monte Carlo search algorithms to improve FOCE estimation; built-in individual weighted residuals; bootstrap tools for simulation; and greater control in average eta shrinkage calculations; and automatic protection against numerical exceptions using NONMEM7.4's new \$ABBR PROTECT feature.

Presenters: Robert Bauer, PhD, Brian M. Sadler, PhD, & Indrajit Das, PhD

View the Full Agenda

Fees: \$600 for Industry, \$300 for Academia/Government, \$150 for Students

Contact Lisa Wilhelm Lisa.Wilhelm@iconplc.com for more information.

Registration will be handled by the organizers for the ACoP meeting.