

# Pre-meeting Workshops

FRIDAY, SEPTEMBER 11, 2020 | Pre-meeting Workshop 2 | 10:00 AM – 1:30 PM

## *Individualized Drug Therapy: Maximally-precise Drug Therapy for Each Individual Patient, at the Bedside, in a Community Hospital Setting*

### DRUG DEVELOPMENT TRACK

*Offers both CME & CPE Credit*

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ACPE – 3 CONTACT HOURS/KNOWLEDGE-BASED

### CHAIR:

**Michael N. Neely, MD**, Chief, Infectious Diseases, Director, Laboratory of Applied Pharmacokinetics & Bioinformatics, Children's Hosp Los Angeles, Professor of Pediatrics & Clinical Scholar, Keck School of Medicine, Univ of Southern California

### TARGET AUDIENCE:

This Workshop will be useful for professionals interested in individualizing drug therapy for patients in a community hospital setting.

### GOALS & OBJECTIVES:

Following the completion of this activity, the learner will be able to:

1. Have a working idea of the foundations of parametric and nonparametric population pharmacokinetic/dynamic modeling;
2. Know the principles of setting a specific point target goal for each patient according to the need for the drug and a risk of toxicity which is appropriate to accept in order to get the hoped-for benefit from the drug;
3. Understand the foundations of multiple-model, maximally-precise dosing;
4. Understand the process of monitoring the patient and making an individual drug model for each patient;
5. Understand the estimation of creatinine clearance when serum creatinine is changing;
6. Understand the management of drug dosage in dialysis patients;
7. Understand the interacting multiple-model approach to tracking drug behavior in highly-unstable patients;
8. Be acquainted with the management of patients with ventilator-assisted pneumonia, HIV, aminoglycoside and digoxin therapy.

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### Why Consider Nonparametric Pharmacokinetic/ Pharmacodynamic Modeling?

*Michael N. Neely, MD, Chief, Infectious Diseases, Director, Laboratory of Applied Pharmacokinetics & Bioinformatics, Children's Hosp Los Angeles, Professor of Pediatrics & Clinical Scholar, Keck School of Medicine, Univ of Southern California*

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### Applied Pharmacokinetic/Pharmacodynamic Modeling of Single-drug & Combination Therapy for Infectious Diseases

*George Drusano, MD, Professor of Medicine, Director, Inst for Therapeutic Innovation, Coll of Medicine, Univ of Florida*

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### Break

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### Model-guided Precision Dosing to Control Individual Therapy With Hands-on Example of Vancomycin Precision Dosing

*Michael N. Neely, MD, Chief, Infectious Diseases, Director, Laboratory of Applied Pharmacokinetics & Bioinformatics, Children's Hosp Los Angeles, Professor of Pediatrics & Clinical Scholar, Keck School of Medicine, Univ of Southern California*

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### Faculty Panel Discussion, Questions & Answers, Learner Feedback & Evaluation