



ISAP Workshop at the WCDA: Workshop 1 Wednesday, September 08, 2004, 08:00 AM – 10:30 AM

Preclinical Pharmacokinetics and Pharmacodynamics of Anti-infective Agents

Conveners:

Johan W. Mouton, MD, PhD; Canisius Wilhelmina Ziekenhuis, Nijmegen, Netherlands.
Hartmut Derendorf, PhD; Univ. of Florida, Gainesville, FL, USA.

Faculty:

Otto Cars, MD, MPH; Uppsala Univ. Hosp., Uppsala, Sweden.
William A. Craig, MD; William S. Middleton Mem. VA Hosp., Madison, WI, USA.
Hartmut Derendorf, PhD; Univ. of Florida, Gainesville, FL, USA.
Johan W. Mouton, MD, PhD; Canisius Wilhelmina Ziekenhuis, Nijmegen, Netherlands.
Ursula Theuretzbacher, PhD; Antibiotics Center, Vienna, Austria.

Objectives:

- Gain insight in pharmacokinetic and pharmacodynamic concepts of antimicrobial efficacy
- Application of in vitro models and animal models in pharmacodynamic research
- The limitations and use of serum and tissue concentrations
- Know how to calculate pharmacokinetic and pharmacodynamic parameters and interpret the results
- Drug resistance in vitro

Intended Audience: Medical microbiologists, infectious diseases specialists, pharmacologists, and others interested

Level: Beginning

Prerequisites: None

Program: Introduction to PK/PD (Derendorf)
PK/PD indices (Mouton)
Protein Binding/Tissue Distribution (Theuretzbacher)
In vitro models (Mouton)
Animal models (Craig)
In vitro resistance (Cars)

(Coffee between 10:30 AM and 11:00 AM)



ISAP Workshop at the WCDA: Workshop 2 **Wednesday, September 08, 2004, 11:00 AM – 01:30 PM**

Clinical Relevance of Pharmacokinetics and Pharmacodynamics of Anti-infective Agents

Convener:

Johan W. Mouton, MD, PhD; Canisius Wilhelmina Ziekenhuis, Nijmegen, Netherlands.

Faculty:

Otto Cars, MD, MPH; Uppsala Univ. Hosp., Uppsala, Sweden.

George L. Drusano, MD; Albany, NY, USA.

Johan W. Mouton, MD, PhD; Canisius Wilhelmina Ziekenhuis, Nijmegen, Netherlands.

Markus Mueller, MD; Univ. Vienna, Vienna, Austria.

Paul M. Tulkens, MD; Univ. Louvain, Brussels, Belgium.

Objectives:

- Gain insight in the clinical significance of pharmacokinetic and pharmacodynamic modeling of antimicrobials
- Application of preclinical PK/PD into clinical drug development
- PK/PD of antivirals and antifungals
- Assessment of drug exposure at the site of infection
- Clinical drug resistance

Intended Audience: Medical microbiologists, infectious diseases specialists, pharmacologists, and others interested

Level: Intermediate/Advanced |

Prerequisites: None.

Program: Clinical applications of PK/PD (Tulkens)
Drug exposure at infection site (Mueller)
PK/PD of antivirals (Drusano)
PK/PD of antifungals (Mouton)
Clinical resistance (Cars)
Clinical dose optimization (Tulkens)

(Lunch between 01:30 PM and 02:30 PM)



ISAP Workshop at the WCDA: Workshop 3 **Wednesday, September 08, 2004, 02:30 PM – 05:00 PM**

PK/PD Modeling of Anti-infective Agents

Convener:

Hartmut Derendorf, PhD; Univ. of Florida, Gainesville, FL, USA.

Faculty:

William A. Craig, MD; William S. Middleton Mem. VA Hosp., Madison, WI, USA.

Hartmut Derendorf, PhD; Univ. of Florida, Gainesville, FL, USA.

George L. Drusano, MD; Albany, NY, USA.

Alan Forrest, PhD; SUNY Buffalo, NY, USA.

Objectives:

- MIC based PK/PD modeling in vitro and in animals
- PK/PD based on kill curves
- Population PK/PD of anti-infective agents
- Monte Carlo Simulations
- Integration of preclinical and clinical PK/PD

Intended Audience: Medical microbiologists, infectious diseases specialists, pharmacologists, and others interested

Level: Intermediate/Advanced |

Prerequisites: None.

Program: In vitro MIC based PK/PD (Mouton)
PK/PD in animals (Craig)
PK/PD based on kill curves (Derendorf)
Population PK/PD (Forrest)
Modeling of anti-infective activity (Forrest)
Monte Carlo Simulations (Drusano)

(End at about 05:00 PM)