

Course: Applied Pharmacokinetics (B90274)

Field Board 10: Pharmacology and Toxicology

A course is intended primarily for Charles University doctoral students in the study program Pharmacology and Toxicology and for other students interested in clinical pharmacokinetics. It is valid as one of the obligatory courses that must be passed during Doctoral Study Program. The confirmation of completion of the course is validated by credit in the University Study Report. The course lasts 3 days and comprises from seminars on the basic pharmacokinetic theory which is then discussed on practical demonstrations (case reports, guidelines, therapeutic drug monitoring, and population pharmacokinetics) and interactive practicing of therapeutic drug monitoring on validated software (MW/Pharm). Part of the course is final test of acquired knowledge.

Date and place:

December 15-17, 2021

Institute of Pharmacology 1st Faculty of Medicine Charles University and General University Hospital in Prague

Albertov 4, 128 00 Praha 2

Course guarantor:

PharmDr. Jan Hartinger, Ph.D.

Institute of Pharmacology 1st Faculty of Medicine Charles University and General University Hospital in Prague

Registration and contact:

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PharmDr. Jan Hartinger, Ph.D.

Program:

1st day

- Pharmacokinetics – definition of pharmacokinetics, pharmacokinetic processes description, ADME (Hartinger)
- Mathematic description of pharmacokinetic processes, pharmacokinetic calculations (Hartinger)
- Pharmacokinetics of biologic agents (Slanař)

2nd day

- Pharmacokinetic characteristics of chosen drugs (Hartinger)
- Practical examples: therapeutic drug monitoring, case reports, clinical pharmacokinetic studies (Hartinger)
- Population pharmacokinetics, principles of NON-MEM (Michaličková)

3rd day

- Pharmacokinetics in clinical drug trials, studies on bioequivalence (Bartůněk)
- Test (Hartinger)