

FACULTY Part I & II

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INFORMATION

Venue Tagungs- und Bildungshaus
des Bistums Limburg
Wilhelm-Kempf-Haus 1
65207 Wiesbaden (Germany)

Date **Part II**
24-27 September 2024

Fees **Part II (4 days)**

1.000 EUR Member*
1.350 EUR Non Member

*of AGAH, AHPPI, AFPT-CPI, ACCP,
EUFEMED

Special fees for students are available
on request.

Minimum number of participants 10 guests
Registration deadline Part II: 15/09/2024

CONTACT AND FURTHER INFORMATION

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AGAH

Arbeitsgemeinschaft
für angewandte
Humanpharmakologie e.V.

Association for Applied
Human Pharmacology

INTRODUCTORY COURSE IN EXPLORATORY MEDICINES DEVELOPMENT

PART II

24 - 27 September 2024
face-to-face

Wiesbaden (Germany)

Die Inhalte der Fortbildungsmaßnahme sind produkt- und/oder dienstleistungsneutral gestaltet. Potenzielle Interessenkonflikte der Referierenden werden in einer Selbstauskunft gegenüber den Teilnehmenden offen gelegt werden. Der Introductory Course Part I + II ist eine Eigenveranstaltung der AGAH e. V. und wird nicht durch Sponsoring finanziert. Die angegebenen Uhrzeiten für Themenkomplexe und Pausen sind Richtwerte. Anpassungen im Tagesverlauf erfolgen nach Bedarf. Die Höhe der Gesamtaufwendungen beträgt ca. 20.000 € für die Ausrichtung.

Register now <https://forms.office.com/e/xZBqVHzMtr>



INTRODUCTION AND LEARNING OUTCOMES

This course addresses postgraduates in life sciences interested in early clinical development of medicinal products. Two training parts provide a concise overview on Human Pharmacology / Translational Medicine spanning from non-clinical pharmacology and toxicology over first-in-man studies to proof-of-concept clinical trials.

Learning Outcomes

On successful completion of Part II, students should be able to demonstrate an understanding / knowledge of the following:

- nonclinical pharmacology and toxicology
- molecular basis of drug actions
- allometric scaling and dose proportionality assessments based on characteristic PK data
- defining pharmacodynamic (PD) endpoints and biomarkers
- differentiating between primary and secondary PK and PD endpoints
- How to design an early clinical pharmacology development plan
- planning and management of a first-in-man trial
- principles of data management and information flow
- principles of reporting and publication
- principles of medical statistics
- characteristic issues involved in the development of biologicals and biosimilars

This AGAH course meets the standards for high-quality postgraduate education and training in Medicines Development established by PharmaTrain and has been awarded a PharmaTrain Recognition. The course was accredited 3 ECTS (Parts I plus II).

Day 1 · TUESDAY, 24 September 2024

Homework Pre-reading of case study for Wednesday (early clinical pharmacology development programme)

09:00 - 09:15 Introduction of faculty and participants

09:15 - 11:15
5' break after 60'
Pharmacokinetics III:
PK linearity / non-linearity / dose proportionality assessments, biopharmaceutics classification system (BCS), absorption half-life, flip-flop kinetics, protein binding, 4C-studies (mass-balance studies), allometric scaling
Andreas Kovar

11:15 - 11:30 Break

11:30 - 12:30
Bioequivalent trials:
How to do it right - planning a successful BE trial
tba

12:30 - 13:30 Break

13:30 - 17:30
15' break after 120'
Assessment of non-clinical data and risk as prerequisites before administration to man: Compound selection, early in vivo studies including primary and secondary pharmacodynamics and -kinetics, safety pharmacology, general toxicology in various species (rodents, non-rodents) including NOEL/NOAEL and MTD, safety ratio, toxicokinetics, genotoxicity, immunotoxicity, local tolerance, phototoxicity
Stephanie Plassmann

Day 2 · WEDNESDAY, 25 September 2024

09:00 - 10:30
Assessment of non-clinical data and risk as prerequisites before administration to man (continuation of Day 1)
Stephanie Plassmann

10:30 - 10:45 Break

10:45 - 11:15
The revised EMA guideline on early phase clinical trials – key elements
Kerstin Breithaupt-Grögler

11:15 - 12:30
How to determine a safe starting dose for first-in-human? Key safety parameters, case study developed in break-out groups
Stephanie Plassmann

12:30 - 13:15 Break

13:15 - 14:45

How to determine a safe starting dose for first-in-human? Presentations of case study
Stephanie Plassmann

14:45 - 15:00 Break

15:00 - 15:45
Stop dose escalation or continue dosing?
Introduction to case study
Katharina Erb-Zohar

15:45 - 16:45
Stop dose escalation or continue dosing?
Case study developed in break-out groups

16:45 - 17:30
Stop dose escalation or continue dosing?
Presentation of case studies
Katharina Erb-Zohar

Day 3 · THURSDAY, 26 September 2024

09:00 - 10:00
Phase I trials in patients
Antje Blank, Martin Coenen

10:00 - 10:15 Break

10:15 - 12:30
How to design an early clinical pharmacology development program?
Basic concepts of early phase trials supporting early clinical development and decision making: how to design the first-in-human trial? how to proceed from single to multiple ascending dose? which questions need to be answered prior to further clinical development?, including case study
*Jens Rengelshausen
Kerstin Breithaupt-Grögler*

12:30 - 13:15 Break

13:15 - 14:00
How to design an early clinical pharmacology development program? (continued)
*Kerstin Breithaupt-Grögler
Jens Rengelshausen*

14:00 - 15:00
Molecular basis of drug action:
Receptor pharmacology, agonists, antagonists, second messengers, enzymes, regulatory proteins, transcription factors, cellular sites of drug actions
Martin Coenen

15:30 - 15:45 Break

15:45 - 17:30

Pharmacodynamic endpoints and biomarker: Biomarkers for stratified medicine, companion diagnostics and proof of concept; biomarkers and PD endpoints in oncology, diabetes, cardiovascular diseases, cardiac safety and in pain
*Jens Rengelshausen
Michael Zühlendorf*

Day 4 · FRIDAY 27 September 2024

09:00 - 10:00
Data management:
Principles, electronic / paper CRFs, queries, data cleaning, data base closure
Manfred Wargenau

10:00 - 10:15 Break

10:15 - 10:45
Clinical trial report -
Kerstin Breithaupt-Grögler

10:45 - 11:00 Break

11:00 - 12:45
Analysis of early exploratory development studies - principles of medical statistics:
Differences between treatments regarding biomarkers, pharmacokinetic / -dynamic effects, safety, parametric vs. non-parametric analysis, t-tests, repeated measures ANOVA, parametric vs. non-parametric analysis, Chi-square, Fisher's exact
Manfred Wargenau

12:45 - 13:30 Break

13:30 - 14:45
Analysis of early exploratory development studies - principles of medical statistics (continued)
Manfred Wargenau

14:45 - 15:00 Break

15:00 - 16:30
Introduction to biologicals and biosimilars

16:30 - 16:45
Feed back and end of Part II

Monday, 30 September 17:00 - 19:00
Mandatory Test conducted online (60 % of questions must be correctly answered to pass test and receive a certificate)