Target Audience

Infectious disease, intensive care specialists, clinical microbiologists, pharmacologists and pharmacists from academia, health care or industry.

Faculty Members

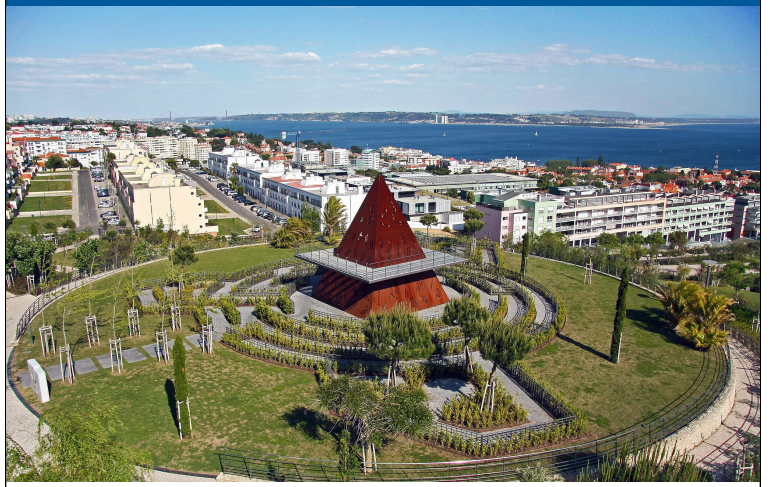
Alan Abdulla, Rotterdam, Netherlands
Vincent Aranzana-Climent, Poiters, France
Francoise van Bambeke, Brussels, Belgium
Lena Friberg, Uppsala, Sweden
Christian Giske, Stockholm, Sweden
Angela Huttner, Geneva, Switzerland
Birgit Koch, Rotterdam, Netherlands
Cornelia Landersdorfer, Parkville, Australia
Anouk Muller, The Hague, Netherlands
Elisabet Nielsen, Uppsala, Sweden
Jason Roberts, Brisbane, Australia
Isabel Spriet, Leuven, Belgium
Thomas Tängdén, Uppsala, Sweden
Sebastian Wicha, Hamburg, Germany
Markus Zeitlinger, Vienna, Austria

ESCMID
MANAGING INFECTIONS
PROMOTING SCIENCE

ESCMID Postgraduate Education Course

Optimised dosing of antibiotics - understanding PK/PD, clinical breakpoints, and therapeutic drug monitoring

Oeiras, Portugal
21 – 22 April 2022



Contact

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EPASG ESCMID PK/PD OF ANTI-INFECTIVES STUDY GROUP
European Society of Clinical Microbiology and Infectious Diseases

ESCMID EUROPEAN SOCIETY OF CLINICAL MICROBIOLOGY AND INFECTIOUS DISEASES

Photo credit: Vitor Oliveira © ESCMID, January 2022

ESCMID Postgraduate Education Course

Organiser

ESCMID PK/PD of Anti-Infectives Study Group (EPASG)

Other organizing groups
European Committee on Antimicrobial Susceptibility Testing (EUCAST)
International Society of Anti-Infective Pharmacology (ISAP)

Course Coordinators

Markus Zeitlinger, Vienna, Austria
Thomas Tängdén, Uppsala, Sweden
Sebastian Wicha, Hamburg, Germany
Birgit Koch, Rotterdam, Netherlands
Francoise van Bambeke, Brussels, Belgium

Course Objective

This course presents and summarises currently available knowledge on PK/PD of commonly used antibiotics, strategies for setting clinical breakpoints, individualised dosing, and therapeutic drug monitoring. The aim is to provide participants with insights that can be used to optimise antibiotic therapy for different patient groups, infection sites and pathogens.

Organisation

Course Venue and Accomodation

Lagoas Park Hotel, Oeiras
Rua Encosta das Lagoas,
Lagoas Park, Porto Salvo
2740-245 Portugal

Registration Procedure

Register on the ESCMID website at www.escmid.org/education by 1 April 2022

Registration fee

EUR 550 for ESCMID members
EUR 700 for all others

The fee includes tuition, 2 nights' (20th and 21st April) stay in the hotel, 2 breakfasts, 2 lunches, 1 dinner and coffee breaks. Travel is not included. Hotel reservations will be handled on a first-come-first-served basis.

Attendance Grants

ESCMID provides a number of attendance grants for ESCMID "young scientist members". The grant covers the registration fee, but not travel costs. Please apply via the ESCMID website at www.escmid.org/education before 15 Febru-ary 2022. Applicants will be informed about their acceptance by 1 March 2022

CME Accreditation

The organiser of the course will apply for European CME accreditation through EACCME.

Course Programme

Thursday 21 April, 2022

08:15 – 08:30	**Registration**
08:30 – 08:40	**Welcome and introduction** *Markus Zeitlinger*
08:40 – 09:25	**Basics of dosing (interactive)** *Francoise van Bambeke*
09:25 – 10:30	**Why do we need to reconsider standard dosing regimens – dosing in special patient populations** *Cornelia Landersdorfer*
10:30 – 11:00	**Break**
11:00 – 11:45	**Current strategies for MIC determination and setting clinical breakpoints** *Anouk Muller*
11:45 – 12:15	**Population PK modelling for individualised dosing** *Elisabet Nielsen*
12:15 – 13:15	**Lunch break**
13:15 – 14:00	**Preclinical infection models and what are the experimental and clinical data supporting PK/PD targets?** *Thomas Tängdén*
14:00 – 14:30	**Mathematical modelling using preclinical data to predict dosing strategies** *Lena Friberg*
14:30 – 15:00	**Break**
15:00 – 15:45	**Optimal dosing and continuous or prolonged infusion of beta-lactams and vancomycin – what is the evidence?** *Jason Roberts*
15:45 – 16:30	**How to optimise the use of aminoglycosides, quinolones and polymyxins; use of therapeutic drug monitoring (clinical case studies, interactive)** *Birgit Koch, Alan Abdulla*
16:30	**End of day**

Friday April 22, 2022

08:30 – 09:00	**Optimised dosing regimens for antibiotic combinations** *Vincent Aranzana-Climent*
09:00 – 09:45	**Tissue penetration of antibiotics – from measurement to dose adaption** *Markus Zeitlinger*
09:45 – 10:15	**Principles of individualised dosing of antifungals based on therapeutic drug monitoring** *Isabel Spriet*
10:15 – 10:45	**Break**
10:45 – 11:15	**Using decision support systems for dosing of anti-infectives – chances and caveats** *Sebastian Wicha*
11:15 – 12:00	**How to apply knowledge on PK/PD and TDM in clinical practice (interactive)** *Thomas Tängdén, Angela Huttner*
12:15 – 13:30	**Lunch break**
13:30 – 14:15	**How to apply knowledge on PK/PD and TDM in clinical practice (continued)** *Thomas Tängdén, Angela Huttner*
14:15 – 15:00	**Future perspectives – clinical breakpoints and dosing in 20 years?** *Christian Giske*
15:00 – 15:30	**Break**
15:30 – 16:00	**Closing remarks and any remaining questions** *Faculty members*