

AMS Certificate Programme

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

Online

March 2028



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

Online



Faculty Members

Sweden	Thomas Tängdén
Switzerland	Angela Huttner
Netherlands	Birgit Koch
Spain	Sonia Luque Pardos
Netherlands	Anne-Grete Mårtson
Netherlands	Anouk Muller
Sweden	Elisabet Nielsen
Germany	Sebastian Wicha
Austria	Markus Zeitlinger

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Day 1 Thursday, 12 March 2026

14:00 – 14:10	Welcome and introduction to the course Thomas Tängdén
14:10 – 14:50	Basics of dosing (interactive) Sebastian Wicha
14:50 – 15:40	Why do we need to reconsider standard dosing regimens – dosing in special patient populations (interactive with multiple choice) Birgit Koch
15:40 – 16:00	Break
16:00 – 16:30	Current strategies for MIC determination and setting clinical breakpoints Anouk Muller
16:30 – 17:00	Preclinical infection models, and what are the experimental and clinical data supporting PK/PD targets for antibiotics? Thomas Tängdén
17:00 – 17:30	Basics of TDM Iris Minichmayr
17:30 – 17:50	Break
17:50 – 18:40	Optimal dosing and continuous or prolonged infusion of beta-lactams, vancomycin and linezolid – what is the evidence? (interactive with multiple choice) Sonia Luque Pardos
18:40 – 18:45	Closing of day 1 Thomas Tängdén

Day 2 Friday, 13 March 2026

14:00 – 14:40	Tissue penetration of antibiotics – from measurement to dose adaption Markus Zeitlinger
14:40 – 15:20	Population PK modelling for individualized dosing, and using preclinical data to predict dosing strategies Elisabet Nielsen
15:20 – 15:40	Break
15:40 – 16:20	Using decision support systems for dosing of anti-infectives – chances and caveats (interactive) Sebastian Wicha
16:20 – 17:00	PK/PD of antiviral agents Anne-Grete Märtson
17:00 – 17:20	Break
17:20 – 17:50	Drug-drug interactions and polypharmacy Markus Zeitlinger
17:50 – 18:40	How to apply knowledge on PK/PD and TDM in clinical practice (interactive) Thomas Tängdén & Angela Huttner
18:40 – 18:45	Closing remarks Thomas Tängdén

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The educational activities included in the ESCMID AMS Certificate 2024-2026 are supported in part by an unrestricted grant by Pfizer Inc., who had no role in the design or content of the activities, or in the selection of speakers.



Biomerieux has provided an unrestricted grant in support of the educational activities included in the ESCMID AMS Certificate 2024-2026 and 2025-2027. The aforementioned company had no role in the design or content of the activities, or in the selection of speakers.

