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ESCMID Antimicrobial Stewardship Certificate 2023– 2025

BASIC Course Programme, Nijmegen, 12-16 June 2023

Day 1 MONDAY

MORNING PROGRAM

Antimicrobial Stewardship Introduction / General principles of antimicrobial therapy

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| 09:00 – 09:15 | Welcome and introduction | Dr. Jeroen Schouten |
| 09:15 – 10:00 | BASIC requirements of an Antimicrobial stewardship Program, the role of Microbiology | Prof. dr. Heiman Wertheim |
| 10:00 – 10:30 | BASIC requirements of an Antimicrobial stewardship Program, clinical sciences | Dr. Jaap ten Oever |
| 10:30 – 11:00 | The WHAT of antimicrobial stewardship (objectives) | Prof. dr. Jan Prins |

Break

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| 11:30 – 12:00 | Epidemiology of resistance. Current situation and trends in Europe. How do you weigh this? Where do you get the (local) data from? How does this affect outcomes? | Prof. dr. Mark de Boer |
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AFTERNOON

Workshop Implementation in practice (part I) “What is exactly my problem?”

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| 13:30 – 14:30 | The HOW of antimicrobial stewardship: how do I make sure that what is implemented/performed in daily practice | Prof. dr. Marlies Hulscher |
| 14:30 – 15:00 | Presentation of a “My project” performed by a course Alumnus: “How did I approach my own Antimicrobial Stewardship problem and improve ? “ | |
| 15:00 – 17:00 | Workshop: introduction of all participants to their main AMS problem: group discussion to define one major problem per group. | |

FREE EVENING

DAY 2 TUESDAY

MORNING PROGRAM

Optimizing Antimicrobial therapy

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| 09:00 – 09:45 | EUCAST methodology of breakpoints , clinical breakpoints, ECOFFs and susceptibility | Dr. Anouk Muller |
| 09:45 – 10:30 | Practical PK/PD: Leads for optimal dosing, also in situations of altered organ function | Dr. Nynke Jager |

Break

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| 11:00 – 11:45 | Practical PK/PD: therapeutic drug monitoring (TDM) to optimize efficacy and prevent toxicity | Dr. Reinier van Hest |
| 11:45 – 12:30 | How to manage (suspected) antibiotic allergy and possibilities for stewardship | Prof. Dr. Mark de Boer |

AFTERNOON

Workshop Implementation in practice (part IIa) “How do I measure the quantity of antimicrobial use?”

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| 13:30 – 14:00 | Quantity of antimicrobial use: the basics | Dr. P. van der Linden |
| 14:00 – 15:00 | Workshop “How to deduct Quantitative Measures from a raw database and how to analyse and present data” | Dr. Paul van der Linden
Dr. Reinier van Hest
Dr. Jan Baltink |

Break

Workshop Implementation in practice (part IIb) “How do I measure the quality of antimicrobial use?”

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| 15:30 – 16:00 | Quality Indicators in Antimicrobial Stewardship, the basics | Prof. Dr. Marlies Hulscher |
| 16:00 – 17:00 | Workshop “How to operationalize Quality indicators for appropriate antimicrobial use” | Jaap ten Oever / Jeroen Schouten |
| 17:00 – 17:30 | Performing a Point Prevalence Survey, the basics | Ann Versporten / Jaap ten oever |
| 16:30 – 18:00 | Social Event (Bike tour / Walk in the woods) | |

DAY 3 WEDNESDAY

MORNING PROGRAM

Changing therapy: escalation and de-escalation / IV oral switch

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| 09:00 – 09:30 | Markers of inflammation and infection: how to interpret (e.g. CRP, PCT, leukocytes)? Can they be used to tailor treatment duration? | Prof. Dr. M. de Boer |
| 09:30 – 10:15 | (Rapid) microbiological diagnostics: how to interpret? | Prof. Dr. Bhanu Sinha |
| 10:15 – 10:30 | Benefits of early IV-oral switch: low hanging fruit in Antimicrobial Stewardship Programs | Prof. Dr. Jan Prins |
| 11:00 – 11:45 | Escalation and De-escalation practice: how to do this in daily practice? | Prof. M. de Boer |

AFTERNOON

13:00 – 14:30 Workshop on *S. aureus* bacteremia consultations. Dr. Kim Sigaloff en Prof. M. de Boer

15:00 – 22:00 Social Event: biking around Nijmegen; City and river guided tour with dinner in town

DAY 4 THURSDAY

MORNING PROGRAM

Stopping therapy and discharge with therapy at home

09:00 – 09:30	Stopping antibiotics and duration of antibiotic therapy. Guidelines vs practice	Prof. dr. Jan Prins
09:30 – 10:00	(Prolonged) Antibiotic prophylaxis in perioperative and medical settings	Dr. Mark de Boer
10:00 – 10:30	IV antimicrobial therapy at home: OPAT, drug options, controls and toxicity	Dr. Jaap ten Oever Dr. Rogier van Hest Dr. Paul van der Linden

Workshop Implementation in practice (part III) “How do I analyse barriers?”

11:00 – 11:30	Determinants of Antibiotic use	Dr. Jeroen Schouten
11:30 – 13:00	Workshop “How to assess barriers and facilitators related to optimal antibiotic use”	

AFTERNOON

Workshop Implementation in practice (part IV) How to devise an intervention?

14:00 – 16:00	Workshop “How do I get from a barrier to a potentially effective intervention”	Dr. Milou Fredrix
16:00 – 18:00	Group work	

DAY 5 FRIDAY

MORNING PROGRAM

9.00 -10.00	EXAM	
10.30 –11:15	Putting it all together in interdisciplinary consultations: a lesson in empathy combining multiple perspectives	Prof. dr. Bhanu Sinha

“GRANDE FINALE” of the group projects

11:30 – 12:30	Plenary presentation of team projects to the complete group of experts & discussion, part I
12:30-13:30	LUNCH
13:30 – 14:30	Plenary presentation of team projects to the complete group of experts & discussion, part II
15:00	Closing remarks and certificate ceremony