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Target Audience
60 – 80 infectious diseases specialists or residents in infectious diseases and clinical microbiology, pharmacists interested in infectious diseases, and master or PhD students interested in the subject.

Faculty Members
Marc Bonten, Utrecht, Netherlands
Saskia le Cessie, Leiden, Netherlands
Belén Gutiérrez, Seville, Spain
Mariska Leeflang, Amsterdam, Netherlands
Leonard Leibovici, Petah-Tiqva, Israel
Pontus Naucke, Stockholm, Sweden
Mette Nergaard, Aarhus, Denmark
Mical Paul, Haifa, Israel
Jesús Rodríguez-Baño, Seville, Spain
Evelina Tacconelli, Tubingen, Germany
Sheldon Stone, London, United Kingdom

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Course Objectives
The generic objective of the workshop is to improve the knowledge of participants in the most important aspects of the methodology for the design, analysis and report of clinical studies in infectious diseases and clinical microbiology, and to train their application. Attendants will be divided into basic and advance tracks for specific activities according to their previous training. The specific objectives are to:

- provide the participants with tools on how to phrase a research question
- choose the appropriate design and methods to address it
- choose and apply the appropriate analysis methods
- write an optimal report
Wednesday, 26 October 2016
08:15 Registration
09:15 Why methods? Why are we doing this? Jesús Rodríguez-Baño
09:30 New designs for randomized controlled trials. Marc Bonten
10:30 Coffee break

Basic track Chair: Mical Paul
11:00 Choice of outcomes in RCTs and observational studies of interventions in infectious diseases. Jesús Rodríguez-Baño
12:00 Systematic reviews and meta-analysis of interventions. Mical Paul
13:00 Lunch

Advanced track Chair: Evelina Tacconelli
08:15 Choice of outcomes in RCTs and observational studies of interventions in infectious diseases. Jesús Rodríguez-Baño
09:15 Methods to demonstrate the link between consumption of antibiotics and change in resistance. Evelina Tacconelli
10:15 Coffee break
10:45 Use of multi-variable analysis. Belén Gutiérrez
11:45 Derivation and validation of decision rules. Leonard Leibovici
12:45 Lunch

Parallel workshops
14:00 • Choice of outcomes in clinical research. Jesús Rodríguez-Baño
• Randomized controlled trials. Marc Bonten & Mical Paul
• Systematic reviews and meta-analysis. Mariska Leeflang & Leonard Leibovici
• Analysis of large databases. Mette Nørgaard & Pontus Naucler
16:00 Coffee break
16:15 Afternoon parallel workshops continued

Thursday, 27 October 2016
Basic track Chair: Sheldon Stone
08:15 Sample size analysis. Saskia le Cessie
09:15 How to write an article. Leonard Leibovici
10:15 Coffee break
10:45 Analysis of large, nation-wide databases. Mette Nørgaard
11:45 Multi-variable analysis: which model to use? Belén Gutiérrez

Advanced track Chair: Evelina Tacconelli
08:15 Choice of outcomes in RCTs and observational studies of interventions in infectious diseases. Jesús Rodríguez-Baño
09:15 Methods to demonstrate the link between consumption of antibiotics and change in resistance. Evelina Tacconelli
10:15 Coffee break
10:45 External validity of RCTs in infectious diseases: bad? And how to improve it? Mical Paul
11:45 Diagnostic systematic reviews and meta-analysis. Mariska Leeflang
12:45 Lunch

Parallel workshops
13:45 • Ecological studies. Evelina Tacconelli
• Use of specific guidelines to construct your report. Sheldon Stone
• Diagnostic systematic reviews and studies. Mariska Leeflang
• Sample size analysis. Saskia le Cessie
15:45 Coffee break
16:00 Parallel workshops continued

Friday, 28 October 2016
Basic track Chair: Mical Paul
08:15 Use of specific guidelines to construct your report. Sheldon Stone
09:15 Choice of controls in case-control studies. Pontus Naucler

Advanced track Chair: Belén Gutiérrez
08:15 Derivation and validation of decision rules. Leonard Leibovici
09:15 Use of CART analysis. Belén Gutiérrez
10:15 Coffee break

Parallel workshops
10:45 • Use of multi-variable analysis. Belén Gutiérrez & Saskia le Cessie
• How to test complex interventions for infection control. Evelina Tacconelli
• Case-control studies. Pontus Naucler & Mariska Leeflang
• Design of observational studies. Leonard Leibovici
12:45 Lunch and concluding remarks