

Course Objectives

- Explain the process of EUCAST breakpoint definition, understand the rationale for EUCAST clinical breakpoints including the PK/PD approach, and explain implementation of EUCAST breakpoints.
- Perform antimicrobial susceptibility testing by dilution, diffusion and automatic techniques with a EUCAST perspective, and differences from the CLSI approach.
- Understand the application of EUCAST expert rules for antimicrobial susceptibility testing.
- Explain antimicrobial surveillance systems (public versus private) and benefits for establishment of antimicrobial guidelines and the design of antibiotic policies.
- Understand the importance of epidemiological cut-off values (ECOFFs) and clinical breakpoints in antimicrobial resistance surveillance systems.
- Understand how ECOFFs are determined.
- Discuss adequate strategies to implement EUCAST breakpoints and methodology in the single laboratory setting as well as in a national context.
- Explain the importance of harmonised methodology for antimicrobial resistance surveillance purposes from a European point of view.
- Discuss the application of clinical breakpoints at patient level.

Target Audience

Up to 26 clinical microbiologists with an interest in antimicrobial susceptibility testing and surveillance. Representatives from National Antimicrobial Committees (NACs) will have priority over other applicants for participation in this course (a letter supporting the application from the President or Secretariat of the corresponding NAC will be necessary to demonstrate this representation).

Contact

Contact Person

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Scientific pictures inside:

EUCAST disk diffusion test, picture courtesy of ESCMID
Microdilution test, picture courtesy of Rafael Cantón, Madrid, ES



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ESCMID Postgraduate Technical Workshop

3rd Workshop on Antimicrobial Susceptibility Testing and Surveillance

Linz, Austria
16 – 19 September 2014



ESCMID Postgraduate Technical Workshop

3rd Workshop on Antimicrobial Susceptibility Testing and Surveillance

Organisers

- ESCMID Study Group for Antimicrobial Resistance Surveillance (ESGARS)
- ESCMID PK/PD of Anti-Infectives Study Group (EPASG)
- European Committee on Antimicrobial Susceptibility Testing (EUCAST)
- analyse BioLab, Linz, Austria

Course Coordinators

- Petra Apfalter, Linz, Austria
- Rafael Cantón, Madrid, Spain

Faculty Members

Petra Apfalter, Linz, Austria
Derek Brown, Peterborough, United Kingdom
Rafael Cantón, Madrid, Spain
Sören Gatermann, Bochum, Germany
Christian Giske, Stockholm, Sweden
Rainer Hartl, Linz, Austria
Sandra Höller, Linz, Austria
Gunnar Kahlmeter, Växjö, Sweden
Heidrun Kerschner, Linz, Austria
Luis Martínez-Martínez, Santander, Spain
Erika Matuschek, Växjö, Sweden
Johan W. Mouton, Nijmegen, The Netherlands
Christiane Müllner, Linz, Austria
Jesús Rodríguez-Baño, Seville, Spain
Robert Skov, Copenhagen, Denmark
Mark Struelens, Stockholm, Sweden

Course Programme

Tuesday, 16 September 2014 at Forte

- 15:00 Arrival, documentation and coffee
- 15:30 Welcome and presentation of the course.
Petra Apfalter, Rafael Cantón, Christian Giske & Johan W. Mouton
- 15:40 EUCAST in Europe and beyond.
Gunnar Kahlmeter
- 16:10 Setting breakpoints for EUCAST.
Johan W. Mouton
- 16:50 Wild type MIC distributions and ECOFFs.
Gunnar Kahlmeter
- 17:30 Breakpoints: why EUCAST and not CLSI?
Derek Brown
- 17:45 Local, national and international surveillance systems for antimicrobial resistance.
Christian Giske
- 19:00 Reception dinner

Wednesday, 17 September 2014 at Forte & analyse BioLab

- 09:00 Quality assurance of susceptibility testing.
Derek Brown
- 09:40 EUCAST expert rules. *Rafael Cantón*
- 10:20 Break
- 10:45 Antimicrobial susceptibility testing: dilution methods. *Luis Martínez-Martínez*
- 11:25 Antimicrobial susceptibility testing: diffusion methods. *Erika Matuschek*
- 12:05 Antimicrobial susceptibility testing: automatic systems. *Rafael Cantón*
- 12:45 Lunch (catering at Forte)
- 13:45 Laboratory sessions: microdilution, gradient tests and disk diffusion.

Thursday, 18 September 2014 at Forte & analyse BioLab

- 09:00 Phenotypic detection and characterisation of cephalosporin- and carbapenem-resistance in Gram-negative microorganisms.
Rainer Hartl
- 09:40 Genotypic methods for detection of resistance. *Sören Gatermann*
- 10:20 Break
- 10:45 *Staphylococcus aureus*: susceptibility testing of anti-staphylococcal agents. *Robert Skov*
- 11:15 Clinical implications of “report as tested”.
Jesús Rodríguez-Baño
- 12:05 Are EUCAST breakpoints valid for all patients?
To be decided
- 12:45 Lunch (catering at Forte)
- 13:45 Laboratory sessions: microdilution, e-test, disk diffusion and automatic systems.

Friday, 19 September 2014 at Forte

- 08:30 Decision made to switch to EUCAST: how to reorganise your lab? *Erika Matuschek*
- 09:10 Decision made to switch to EUCAST: how to change your country? *Petra Apfalter*
- 09:50 Break
- 10:10 Attendees’ oral presentations
- 12:45 How EUCAST guidance strengthens surveillance of AMR in the European Union: the ECDC public health perspective. *Marc Struelens*
- 13:30 Closing and farewell lunch at Forte

Organisation

Course Venue
Forte – Fortbildungszentrum Elisabethinen Linz
Museumstrasse 31
4020 Linz
Austria
www.forte.or.at

analyse BioLab
Eisenhandstrasse 4 – 6
4020 Linz
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Registration Procedure
Register now online on the ESCMID website at www.escmid.org/education. Registration deadline is 4 July 2014.

Registration Fee
EUR 500 for ESCMID members
EUR 800 for all others

The fee includes the laboratory materials and protocols, lunch at Forte and social events (reception dinner and farewell lunch), but not travel or accommodation costs.

Attendance Grants
ESCMID provides a number of attendance grants for ESCMID “young scientist members”. The grant covers the registration fee. Travel and accommodation is not included. Please apply via the ESCMID website at www.escmid.org/education before 27 June 2014. Applicants will be informed about their acceptance by 11 July 2014.

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

