Programme Objectives
The EUCIC training programme – a pan-European science-based programme for infection prevention and control training – was established in order to train a new generation of infection control specialists linking the best expertise at European level. The module in Athens, Greece, is one of the local modules of this programme.

Module Objectives
This 3-day module will offer up-to-date knowledge in:
- epidemiology of MDR Gram-negative pathogens
- Phenotypical and molecular microbial methods for the detection of MDR Gram-negative pathogens
- Diagnostic stewardship
The course will focus on detecting resistance mechanisms of MDR Gram-negative pathogens against antimicrobials such as expanded-spectrum cephalosporins, carbapenems and polymyxins. Lectures will be complemented by practical lab demonstrations for learning different diagnostic techniques for rapid detection of MDR bacteria in clinical microbiology.

The participants will have gained valuable knowledge and skills that can be immediately transferred to healthcare facilities and used for the benefit of hospitalized patients.

Target Audience
Up to 25 clinical microbiologists, infectious diseases, specialists or other healthcare professionals who are experienced in infection prevention and control, involved in management of infections due to MDR pathogens or have completed the EUCIC basic module.

Confirmed Faculty Members
Anastasia Antoniadou, Athens, Greece
Konstantina Gartzonika, Ioannina, Greece
Athileas Gikas, Heraklion, Greece
Alexander Friedrich, Groningen, Netherlands
Flora Kontopidou, Athens, Greece
Vassiliki Mamatli, Athens, Greece
Antonis Markogiannakis, Athens, Greece
Maria Orfanidou, Athens, Greece
Joseph Papaparaskevas, Athens, Greece
Vassiliki Pitariga, Athens, Greece
Spyridon Pournaras, Athens, Greece
Georgia Vrioni, Athens, Greece
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EUCIC Local Module
The role of the clinical laboratory in preventing nosocomial infections due to MDR Gram-negative pathogens: a theoretical and practical approach

Athens, Greece
20 – 22 May 2019
Module Programme

Please note!
This training course is in the English language.

Monday, 20 May 2019
MDR Gram-negatives: epidemiology and detection
Chair: Athanasios Tsikis, Georgia Vrioni, Nikolaos Sipsas
08:45 Arrival and registration
09:15 Opening session and welcome
Introduction to the educational program Athanasios Tsikis
09:30 MDR pathogens: definitions and pragmatic approach to the problem Athanasios Tsikis
10:00 MDR Gram-negatives under surveillance (Klebsiella, Pseudomonas, Acinetobacter): current epidemiological data Flora Kontopidou
10:30 Coffee break

MDR Gram-negatives: resistance mechanisms and interpretation of susceptibility and phenotypic assays
Chairs: Athanasios Tsikis, Georgia Vrioni, Nikolaos Sipsas
11:00 Enterobacteriaceae and beta-lactams. Phenotypic methods for detecting and differentiating extended-spectrum beta-lactamases Vassiliki Mamali
12:00 Non-fermenters: differences from MDR Enterobacteriaceae in their associated resistance genes and methods of detection Maria Orfanidou
12:30 Interpretations of colistin susceptibility testing and therapeutic implications Spyridon Pournaras
13:00 Susceptibility testing for fosfomycin: current approaches and limitations Joseph Papaparaskevas
13:30 The role of detecting and differentiating beta-lactamases in antibiotic stewardship programs (ASP) Nikolaos Sipsas
14:00 Lunch break
15:30 Current phenotypic methods (HIHT, CIM tests and combined disk tests) for detection and differentiation of ESBLs, carbapenemases and colistin resistance: practical exercise Vassiliki Mamali, Olympia Zarkotou, Georgia Vrioni
16:30 End of day

Tuesday, 21 May 2019
Surveillance methods to prevent spread of MDR Gram-negative pathogens
Chairs: Athanasios Tsikis, Spyridon Pournaras, Achilles Gikas
09:30 Active surveillance by cultural methods Joseph Papaparaskevas
10:00 Active surveillance using molecular assays Saja Larhi
10:30 The role of active surveillance in infection control and antibiotic stewardship Olympia Zarkotou
11:00 Coffee break
11:30 National AMR Surveillance System: the monitoring of indicators as a tool for the effective implementation of infection control program in hospitals (practice exercise) Flora Kontopidou
12:30 Examples of best practices of 1. Infection control programs Achilles Gikas
2. Antibiotic stewardship programs Anastasios Antoniadou
13:30 Lunch break
15:30 Reading of phenotypic assays and discussion – development of an algorithm for detecting and differentiating ESBLs and carbapenemase types Vassiliki Mamali, Olympia Zarkotou, Georgia Vrioni
16:30 End of day

Wednesday, 22 May 2019
Diagnostic stewardship
Chairs: Athanasios Tsakis, Alexander Friedrich, Georgios Saroglou
09:00 Molecular – non cultural methods for detection of MDR pathogens Konstantina Sartzonaka
09:30 Molecular detection panels: “Syndromic testing” Nikolaos Sipsas
10:00 Forms of automation (various platforms for identification of pathogens and antibiogram) Vassiliki Pitinga
10:30 Molecular antibiogram Nikolaos Sipsas
11:00 Coffee break
11:30 MALDI-TOF MS technology for detecting extended-spectrum beta-lactamases and beyond Georgia Vrioni
12:00 Practices for therapeutic drug monitoring in a clinical laboratory Antonios Markogiannakis
13:00 MDR and therapeutic algorithms Georgios Saroglou
13:30 Diagnostic Stewardship for the prevention of antibiotic resistance in clinical microbiology Alexander Friedrich
14:00 Lunch break
15:30 Presentation of different syndromic tests – How to communicate, and report their results Nikolaos Sipsas, Georgia Vrioni, Joseph Papaparaskevas
16:30 Multiple-choice exam
17:00 Evaluation of the program, discussion and conclusions
17:30 End of day

Organization

Module Venue
Medical School
National and Kapodistrian University of Athens
Mikras Asias 75, 11527, Athens, Greece
http://school.med.uoa.gr/

Registration Procedure
Register now online on the ESCMID website at: https://www.escmid.org/research_projects/eucic/training_programme/

The registration deadline is 15 April 2019.

Registration Fee
EUCIC trainee: Automatic registration ESCMID member: EUR 160
Non-ESCMID member: EUR 180

The fee includes teaching material, lunch and coffee breaks, travel and accommodation will not be included.

CME Accreditation
This module has been accredited by the European Accreditation Council for Continuing Medical Education (EACCME®) with 16 European CME credits [ECMEC®].