ESCMID Postgraduate Technical Workshop
Advanced Technical Workshop: Infection and Resistance Prevention in the Regional Healthcare Network

Groningen, Netherlands
1–2 June 2017

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Target Audience
20–40 experts in infection control, medical doctors in training for clinical microbiology, infectious diseases or infection control (hospital hygiene).

Faculty Members
Erik Bathoorn, Groningen, Netherlands
Gerolf de Boer, Groningen, Netherlands
Dirk Brockmann, Berlin, Germany
Tjibbe Donker, Oxford, United Kingdom
Alexander W. Friedrich, Groningen, Netherlands
Hajo Grundmann, Freiburg, Germany
M.G.R. Hendrix, Groningen, Netherlands
Lenn Ten Horn, Groningen, Netherlands
Jan A.J.W. Kluftmans, Breda, Netherlands
Robin Köck, Oldenburg, Germany
Manette Lokate, Groningen, Netherlands
Alexander Meilman, Münster, Germany
Rafael Mikolajczyk, Halle, Germany
Nico Tom Mutters, Heidelberg, Germany
Bhanu Sinha, Groningen, Netherlands
Marin Schweizer, Iowa City, IA, United States
Adriana Tami, Groningen, Netherlands
Lisette van Gemert-Pijnen, Enschede, Netherlands
Andreas Voss, Nijmegen, Netherlands
Norma Welles, Leeuwarden, Netherlands

Picture outside: Simulation training to visualize the transmission of microbes by fluorescence. © MMB (workshop IP&C).

Picture inside: The Dutch healthcare network covering all Dutch hospitals: university medical center, top clinical hospital, general hospital.
The lines represent the transfer of patients between hospitals, whereas the thickness of the lines indicates the relative number of exchanged patients (Donker et al, Ned Tijdschr Geneeskd. 2015;159:A8468).

Organizers
• ESCMID Study Group for Epidemiological Markers – ESGEM
• European Committee on Infection Control (EUCIC)
• University Medical Center Groningen, Netherlands

Course Coordinators
• Alexander W. Friedrich, Groningen, Netherlands
• Nico Mutters, Heidelberg, Germany
Controlling outbreaks and preventing the spread of resistant microorganisms in single hospitals is not efficient. Patients are continuously transferred between healthcare institutions, with them they carry MDR and every time they are admitted again to another hospital, transmission to other patients can occur. This means, that single hospitals and LTCF are part of a more organic regional healthcare network that has to organize the prevention of infections and especially the prevention of resistance. Therefore, reduction of the transmission, but also reduction of the selective pressure play an important role. However, collaboration in regional networks has to be established. How to identify the own real-life healthcare network, how to implement a regional network focusing on infection- and resistance prevention including all major healthcare facilities is the focus of this advanced technical workshop.

Theory and practicals include: the analysis of the own regional healthcare network using modelling software, expert topics on infection- and resistance prevention, use of modern technology for regional outbreak control, the building process of a “regional network” with real stakeholders as well as training sessions using role-playing for the regional outbreak control.

Course Programme

Thursday, 1 June 2017
08:45 Registration and coffee
09:15 Welcome and introduction. Bhanu Sinha
09:30 Regional infection control: the Dutch approach. Alexander W. Friedrich
10:10 Coffee break
10:30 Two parallel pitch sessions: “show your own outbreak”. Jan A.J.W. Kluytmans, Andreas Voss
11:50 Plenary feedback discussion. Jan A.J.W. Kluytmans, Andreas Voss
12:20 Lunch
13:15 The stakeholders in an outbreak: the real life. Andreas Voss
13:35 Network science in epidemiology across all scales. Dirk Brockmann
13:55 Molecular epidemiology and network analysis of MDR. Hajo Grundmann
14:15 Network analysis of regional outbreaks. Tijbe Danker
14:35 Coffee break
15:00 Introduction of software packages to analyze your own regional healthcare network. Gerolf de Bier
15:30 Practical 1: analysis of the own regional healthcare network using modelling software. Gerolf de Bier, Tijbe Danker, Dirk Brockmann, Marin Schweizer
18:30 Social activity and dinner

Friday, 2 June 2017
08:30 Advancing infection prevention by regional antimicrobial stewardship. Bhanu Sinha
08:50 Infection prevention in regional healthcare networks in the USA. Marin Schweizer
09:10 Targeted diagnostics to narrow down the outbreak. Mariëtte Lokate
09:30 Genome sequencing of resistant bacteria for outbreak control. Alexander Mellmann
09:50 Coffee break
12:00 Lunch
14:30 Drinks (during practical)
14:45 Practical 3 (continued)
15:50 Plenary feedback discussion. Alexander W. Friedrich
16:20 Serious gaming and medical gamification. Lisette van Gemert-Pijnen
16:40 Conclusive remarks. Alexander W. Friedrich
16:55 Drinks

Organization
Course Venue
University Medical Center Groningen
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Registration Procedure
Register now online on the ESCMID website at www.escmid.org/education.
Registration deadline is 30 April 2017.

Registration Fee
EUR 375 for ESCMID members (Full Membership/Young Scientist Membership)
EUR 475 for all others
The fee includes the scientific sessions, coffee and lunch breaks as well as the dinner and teaching materials. Accommodation and travel are not included.

Attendance Grants
ESCMID provides a number of attendance grants for ESCMID “young scientist members”. The grant covers the registration fee. Accommodation and travel are not included.

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