Target Audience
Medical doctors and pharmacists, nurses or other healthcare professionals with an MSc or PhD are eligible, provided they completed the basic module or have experience in IPC.

Confirmed Faculty Members
Pamela Barbadoro, Ancona, Italy
Bernd Blasius, Oldenburg, Germany
Gerolf de Boer, Groningen, Netherlands
Michael Borg, Malta
Marcello D’Errico, Ancona, Italy
Tjibbe Donker, Freiburg, Germany
Alexander W. Friedrich, Groningen, Netherlands
Alastair Jamieson-Lane, Oldenburg, Germany

For the Scientific Programme
Ieneke van der Gun
University Medical Center Groningen
Medical Microbiology and Infection Prevention
Hanzeplein 1, Mailcode EB80
9713 GZ Groningen, Netherlands

Phone +31 50 361 0964
Fax +31 50 3619105
b.t.f.van.der.gun01@umcg.nl

Administrative Inquiries
Henna Holband
Groningen
The Netherlands

Phone +31 6 55538659
h.l.holband@umcg.nl

EUCIC Local Module
Infection and Resistance Prevention in the Regional Healthcare network

Webinar
8 October 2020
EUCIC Local Module

Infection and Resistance Prevention in the Regional Healthcare network

Organizers
European Committee on Infection Control (EUCIC) of the European Society of Clinical Microbiology and Infectious Diseases

Module Coordinator
Alex W. Friedrich, Groningen, Netherlands
Gerolf de Boer, Groningen, Netherlands

Module objectives
The main goal of the webinar is to introduce participants to the role and strengths of infection prevention and control in a regional health-care network, especially focusing on AMR as well as the regional spread of SARS-CoV-2. Addressing outbreaks and preventing the spread of microorganisms in single hospital locations showed to be inefficient for sustainable control. As patients are continuously transferred between healthcare institutions, they carry microorganisms such as AMR or SARS-CoV-2 with them and every time they are admitted again to another hospital, transmission to other patients can occur. This can occur between hospitals, but also between hospitals and Long-term-care facilities. We will therefore introduce the concept of the regional R(0). Using modern and open source online tools participants will analyze the structure of regional transmission-network and the transmission dynamics that regional infection control has to deal with. As a consequence, a multi-barrier approach is necessary, comprising the reduction of transmission, but also the reduction of the selective pressure, preventive screening as well as the reduction of mobility of HCW or patients. However, collaboration in regional networks has to be established by following specific steps which include the analysis of the own real-life healthcare network and the building process by involving all necessary regional stakeholders.

Participants will learn how to implement a regional network. This will include theoretical as well as practical training sessions, the analysis of the own regional healthcare network using modelling software, flanked by expert topics on infection- and resistance prevention, the regional spread of SARS-CoV-2 and the use of modern diagnostic technology for regional outbreak control.

Module Programme

**Thursday, 8 October 2020**

**Infection prevention in the regional healthcare network**
Moderator: Alex Friedrich

09:15 – 09:30 Welcome and introduction
Alex Friedrich

09:30 – 09:50 Regional infection control
Alex Friedrich

09:50 – 10:10 Regional diversity in antimicrobial resistance among European countries
Michael Borg

10:10 – 10:30 Break

10:30 – 10:50 The stakeholders in an outbreak: the real life in the COVID-19 situation
Marcello D’Errico, Pamela Barbadoro

10:50 – 11:10 Bioinvasion and epidemic spread in complex networks
Bernd Blasius

11:10 – 11:30 Network analysis of regional outbreaks
Tjibbe Donker

11:30 – 11:50 Predicting Pathogen arrival time using Transport data in a network
Alastair Jamieson-Lane

12:00 – 13:00 Break

Practical analysing regional healthcare networks
Moderator: Gerolf de Boer, Groningen, Netherlands

13:00 – 13:30 Introduction of software packages to analyse your own regional healthcare network
Gerolf de Boer

13:30 – 16:30 Practical assignment with your own data to analyse and visualise your own regional healthcare network and early warning system elements like reproduction rates, doubling times and maps.

16:30 – 17:00 Assessment (mandatory) (digital)

17:00 – 17:15 Conclusive remarks
Alex Friedrich

Organization

Module Venue
Webinar

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

The registration deadline is 8 September 2020

Registration Fee
EUCIC trainee: Automatic registration
ESCMID member: 100 €
No ESCMID member: 125 €

Visualization of an outbreak in a hospital network in which the nodes represent wards and the lines represent patient transfer between the wards. The more central a node is positioned, the more involved that ward is in patient routes through the hospital.