

Target Audience

Infectious diseases specialists, orthopaedic or plastic surgeons, and microbiologists with interest in bone and joint infections.

Faculty Members

ESGIAI and ESGB

Thomas Bjarnsholt, Copenhagen, Denmark

Tom Coenye, Ghent, Belgium

Parham Sendi, Basel, Switzerland

Jaime Esteban, Madrid, Spain

Debora Coraça-Huber, Innsbruck, Austria

Efthymia Giannitsioti, Athens, Greece

Andrej Trampuz, Berlin, Germany

Yvonne Achermann, Zurich, Switzerland

Jaime Lora-Tamayo, Madrid, Spain

Marjan Wouthuyzen-Bakker, Groningen, Holland

Tobias Kramer, Berlin, Germany

Claus Moser, Copenhagen, Denmark

Swiss expert group on musculoskeletal infections

Martin Clauss, Basel, Switzerland

Peter Wahl, Winterthur, Switzerland

Ilker Uçkay, Zurich, Switzerland

Other

Fintan Moriarty, Davos, Switzerland

Ales Chrdle, Ceske Budejovice, Czech Republic

Martin Nicolaus Stienen, St.Gallen, Switzerland

Michael Leunig, Zurich, Switzerland

Alexander Montgomery, London, UK

Holger Brüggeman, Aarhus, Denmark



MANAGING INFECTIONS
PROMOTING SCIENCE

ESCMID Postgraduate Education Course

The challenge of persistent biofilm- related bone and joint infections

Zürich, Switzerland
28 – 29 May 2022



Contact

Contact Person (Scientific Programme)

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Organisation

Course Venue

Schulthess Clinic

Lengghalde 2, 8008 Zürich, Switzerland

www.schulthess-klinik.ch

Registration Procedure

Register on the ESCMID website at

www.escmid.org/education by:

Onsite registration: 28 March 2022

Online registration: 28 April 2022

Registration fee

Onsite Participation

EUR 300 for ESCMID members

EUR 400 for all others

The fee includes course registration including coffee breaks, 2 lunches, 1 dinner and social activities (Zurich tour).

Online Participation

EUR 70 for ESCMID members

EUR 100 for all others

Attendance Grants

ESCMID provides a number of attendance grants for ESCMID "young scientist members". The grant covers the onsite registration fee, but not travel or accommodation costs. Please apply via the ESCMID website at www.escmid.org/education before 1 February 2022. Applicants will be informed about their acceptance by 14 February 2022.

CME Accreditation

The course has been accredited by: Swiss Orthopedics with 6 credits and Swiss Society of Infectious Diseases (SSI) with 10 credits



Course Programme

Saturday, 28 May 2022

08:30 – 09:00 **Welcome and registration**

09:00 – 09:10 **Introduction to the course**
Tom Coenye, Yvonne Achermann, Michael Leunig

Pathogenesis of biofilm-related bone and joint infections

09:10 – 09:30 **Current state of knowledge and non-knowledge of biofilms**
Thomas Bjarnsholt

09:30 – 09:50 **Implant-associated bone infection models in animals**
Fintan Moriarty

09:50 – 10:10 **Persister cells in microbial biofilms and their role in therapy failure**
Tom Coenye

10:10 – 10:30 **Discussion & Quiz**
Tom Coenye, Yvonne Achermann

10:30 – 10:50 **Coffee break**

Diagnostics in PJI

10:50 – 11:10 **Current diagnosis guidelines (EBJIS) and new biomarkers**
Parham Sendi

11:10 – 11:30 **Is synovial aspiration necessary before a revision arthroplasty? Role of MRI?**
Michael Leunig

11:30 – 11:50 **Detection and properties of *Cutibacterium* spp.: from skin protection to implant-associated infections**
Holger Brüggeman

11:50 – 12:05 **Molecular technique for the diagnosis of PJI**
Jaime Esteban

12:05 – 12:25 **Discussion & Quiz**
Michael Leunig, Ilker Uçkay

12:25 – 13:15 **Flying lunch**

Treatment in PJI

13:30 – 13:50 **Surgical treatment strategies (one versus two-stage)**
Martin Clauss

13:50 – 14:10 **Is there a role of local antiseptic solution to wash out?**
Martin Clauss

14:10 – 14:30 **Local antibiotic drug delivery with calcium sulphate as carrier material**
Peter Wahl

14:30 – 14:50 **Surface-modified implants to prevent implant-associated infections**
Debora Coraça-Huber

14:50 – 15:10 **Discussion & Quiz**
Martin Clauss

15:10 – 15:30 **Coffee break**

Rare pathogens in bone and joint infections

15:30 – 15:50 **Zoonotic PJIs**
Ales Chrdle

15:50 – 16:10 ***Mycobacterium tuberculosis* and nontuberculous mycobacteria**
Jaime Esteban

16:10 – 16:30 **Discussion & Quiz**
Efthymia Giannitsioti

17:30 – 19:00 **Zürich city tour by Zürich tourism - meeting point at "Bürkliplatz"**

19:00 **Dinner in the traditional restaurant "ZunftHaus zur Waag" - Münsterhof 8, Zürich**

Sunday, 29 May 2022

Antibiotic treatment

09:00 – 09:15 **Antibiotic treatment: How long, 6 or 12 weeks?**
Ilker Uckay

09:15 – 09:30 **Do we need biofilm-active antibiotics?**
Andrej Trampuz

09:30 – 09:45 ***Cutibacterium* sp. Infections: role of rifampin?**
Yvonne Achermann

09:45 – 10:00 **Streptococcal infections: role of rifampin?**
Jaime Lara-Tamayo

10:00 – 10:30 **Discussion & Quiz**
Marjan Wouthuyzen-Bakker

10:30 – 10:50 **Coffee break**

10:50 – 11:10 **Suppressive treatment: how to deal with sinus tract and antibiotic suppressive treatment**
Marjan Wouthuyzen-Bakker

11:10 – 11:30 **Case presentation and Discussion**
Martin Clauss, Yvonne Achermann

Prevention strategies

11:30 – 11:50 **Preventive strategies in the pre-, intra-, and postsurgical phase**
Tobias Kramer

11:50 – 12:10 **Vaccines to prevent/treat PJI**
Claus Moser

12:10 – 12:30 **Discussion & Quiz**
Parham Sendi

12:30 – 13:30 **Lunch**

Treatment of spine infections

13:30 – 13:50 **Treatment of spine infections – surgeon's perspective**
Martin Nikolaus Stienen

13:50 – 14:10 **Medical and surgical management of TB of the Spine - The East London experience**
Alexander Montgomery

14:10 – 14:30 **Experiences in *Brucella* associated spine infections**
Efthymia Giannitsioti

14:30 – 14:50 **Discussion & Quiz**
Andrej Trampuz, Tobias Kramer

14:50 – 15:15 **Closing remarks**
Yvonne Achermann, Tom Coenye, Michael Leunig

Organisers

ESCMID Study Group for Implant-Associated Infections (ESGII)
ESCMID Study Group for Biofilms (ESGB)

Other organisers

Swiss expert group on musculoskeletal infections

Course Coordinators

Yvonne Achermann, Zürich, Switzerland

Tom Coenye, Ghent, Belgium

Michael Leunig, Zürich, Switzerland

Course Objective

The education course will focus on understanding the challenges associated with persisting biofilm-related bone and joint infections in daily practise. Attendees will obtain new insights in the pathogenesis of these infections from basic researchers, as well as new clinical knowledge on how to best prevent, diagnose, and treat these infections. Lectures will focus on surgical interventions, as well as local and systemic antibiotic therapy, and other innovative treatment modalities in bone and joint infections with focus on periprosthetic joint infections. After each session, ample time for discussion will be allotted and each topic will be closed with a quiz.