

## Agenda

### Day 1

|               |  |
|---------------|--|
| 09:00 – 10:00 | Registration & coffee  |
| 10:00 – 10:20 | Welcome & goals of the Workshop  |
| 10:20 – 10:40 | Osteomyelitis and FRI  |
| 10:40 – 11:10 | Understanding FRI: Definitions, diagnostic workup and sampling                                   |
| 11:10 – 11:40 | Discussion   |
| 11:40 – 12:10 | Coffee break   |
| 12:10 – 12:30 | Antimicrobial treatment  |
| 12:30 – 12:50 | Management of bone defects   |
| 12:50 – 13:35 | Discussion   |
| 13:35 – 14:35 | Lunch buffet   |
| 14:35 – 14:55 | FRI treatment in case of infected non-union. Bone defect management.                             |
| 14:55 – 15:15 | Local antibiotic treatment in FRI. IMN with antibiotics.   |
| 15:15 – 16:00 | Discussion   |
| 16:00 – 16:30 | Coffee break   |
| 16:30 – 16:50 | TBD  |
| 16:50 – 17:50 | Practical workshop (2 groups in parallel): <ul style="list-style-type: none"><li>• TBD</li></ul> |
| 17:50 – 18:00 | Wrap-up  |
| From 19:00    | Dinner   |

### Day 2

|               |   |
|---------------|---|
| 08:30 – 09:00 | Coffee (meet the experts informally)                                      |
| 09:00 – 09:20 | Management of complex cases   |
| 09:20 – 09:40 | Experience with war injuries from Ukraine                                 |
| 09:40 – 10:00 | Most common errors  |
| 10:00 – 10:30 | Discussion  |
| 10:30 – 11:00 | Coffee break  |
| 11:00 – 11:20 | Non-culture diagnostic tests  |
| 11:20 – 11:40 | Reducing the risk of infection on the surgical pathway                    |
| 11:40 – 12:10 | Practical workshop: <ul style="list-style-type: none"><li>• TBD</li></ul> |
| 12:10 – 12:30 | Clinical case presentation  |
| 12:30 – 13:00 | Case discussion, participants' case presentations & discussion            |

## Organizational details

**Workshop language:** English

**Course fee:** 480.00 € (early bird rate until 30 days prior to the workshop) / 520.00 € (regular registration)

**CME credits:** Course in November 2024: Approved with **14 CME credits** by the Medical Chamber Berlin and approved by Ethical MedTech. Courses in February and December 2025: Applied for approval by the Medical Chamber Berlin and by Ethical MedTech.

**Certificate:** Participants will receive a certificate of participation.

**Educational material:** All participants will receive all presentations of the speakers of the workshop, the latest version of the *Pocket Guide to Diagnosis and Treatment of implant-associated infections after fracture fixation* as well as a selection of relevant publications related to FRI.

**Group size:** 40-50 participants.

Participants are encouraged to actively participate in case discussions by presenting own cases (approx. 5 slides).

**Registration:** [www.pro-implant.org/workshops](http://www.pro-implant.org/workshops)



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**Target audience:**

Clinicians and life-science researchers with advanced knowledge and interest in fracture-related infections of the following specialties (or enrolled in an educational program):

- Traumatology, orthopaedic or related surgeons dealing with bone and implant-associated infections after fracture
- Internal medicine, (micro)biology, infectious diseases or related fields dealing with biofilms and antibiotics
- Pharmacy, pharmacology or related fields dealing with pharmacokinetics/pharmacodynamics

Ideally, a complementary team from individual institutions should attend the same workshop, i.e. orthopaedic/trauma surgeon and microbiologist/infectious diseases specialist.



# Workshop on Management of Fracture-Related Infections (FRI)

Berlin, Germany

**November 18 – 19, 2024**  
**February 17 – 18, 2025**  
**December 11 – 12, 2025**

**Faculty:**

**Prof. Dr. med. Andrej Trampuz**

Royal Brisbane and Women's Hospital (RBWH) and Queensland University of technology (QUT), Australia

**Dr. med. Cristina Ojeda-Thies**

Hospital Universitario 12 de Octubre, Madrid, Spain

## Welcome

Dear colleagues, dear friends,

It is our great pleasure to invite you to our Workshops on Management of Fracture-Related Infections (FRI) in Berlin.

Our goal is to provide you the most up-to-date and best evidence-based knowledge in pathogenesis, diagnosis, treatment and prevention of fracture-related infections. We put a special emphasis on the interdisciplinary teamwork, open discussions and practical advice for the routine clinical work.

Since the establishment of the PRO-IMPLANT Foundation in 2013, we have constantly improved the quality of lectures, broadened the content and strived to acquire the best international experts in the field. Practical hands-on sessions, case discussions and interactive lectures are specially designed to share experience and interact with other participants. The interest in our workshops is steadily increasing in countries all over the world, demonstrating the interest and need for such an educational format.

The number of workshop participants from all over the world is steadily growing, demonstrating the interest and need for such an educational event.

This is why the PRO-IMPLANT Foundation is tremendously honored to continue fulfilling its mission and commitment to support international research, medical education, global networking and patient care.

We are very pleased to welcome you to one of our next workshops on fracture-related infections to fulfill this aim together.

Yours sincerely,



**Prof. Dr. med. Andrej Trampuz**  
Chair, Executive Board



## The goal: Advancing knowledge

To review, update and advance the theoretical and practical knowledge in diagnosis, treatment and prevention of bone and implant-associated infections. At the end of the workshop, participants should be able to generate a rational and efficient management plan based on modern principles.

## The challenge: Biofilms and implants

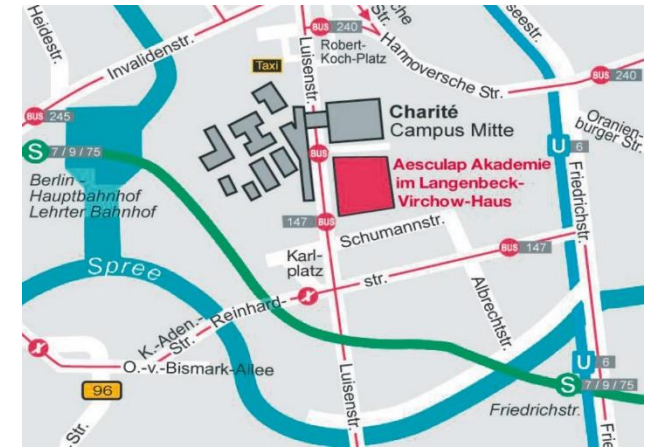
Implant-associated infections occur in up to 10% after fracture fixation. Bacteria grow on medical devices as biofilm, making them difficult to detect and hard to eradicate. Infections after fracture fixation cause considerable morbidity and healthcare costs. An efficient management concept can significantly improve the outcome and life quality of patients.

## The solution: Teamwork of experts

The key to success is an interdisciplinary approach of various medical specialties integrating the latest evidence, clinical experience and innovation in the diagnosis, surgical techniques, antibiotic therapy and local bone and soft tissue management.

## Topics of discussion

- Epidemiology, definition and pathogenesis of bone and implant-associated infections after trauma
- Diagnosis: microbiology, histology, imaging
- Surgical and antimicrobial therapy
- Local antimicrobial therapy, drug delivery systems, bone cement, bone substitutes and bone grafts
- Early postoperative infections: When to revise? What to revise?
- Delayed postoperative infection: concept of septic delayed and non-union
- Culture-negative infections: How to treat?
- Efficient and cost-effective prevention of infection
- Difficult surgical cases: multiple revisions, compromised soft tissues, insufficient bone stock, persistent infection
- Therapeutic options for difficult-to-treat and multi-drug resistant microorganisms
- Typical errors leading to treatment failure
- The importance of animal models to bridge the gap from in vitro to clinical studies
- Potential future solutions: implant coating, bone regeneration, bacteriophage therapy, hydrogels



## Venue

Langenbeck-Virchow-Haus (Aesculap Akademie, 5<sup>th</sup> floor)  
Luisenstraße 58/59  
10117 Berlin, Germany

## Local Public Transport

Subway: U6 – “Oranienburger Tor”  
U55 – “Hauptbahnhof”  
Train: S1, S2, S25, S5, S7, S75 – “Friedrichstraße”  
S5, S7, S75 – “Hauptbahnhof”  
Tram: 12, M1, M5 – “Oranienburger Tor”  
M5, M8, M10 – “Hauptbahnhof”  
Bus: 147, TXL – “Charité – Campus Mitte”

## Parking

APCOA Underground Car Park  
Luisenstraße 47-52  
10117 Berlin, Germany

## Accommodation

All hotel bookings must be arranged by participants themselves. Participants can book rooms to a special rate in the Adina Apartment Hotel Berlin Mitte under this [link](#) (according to availability).

