

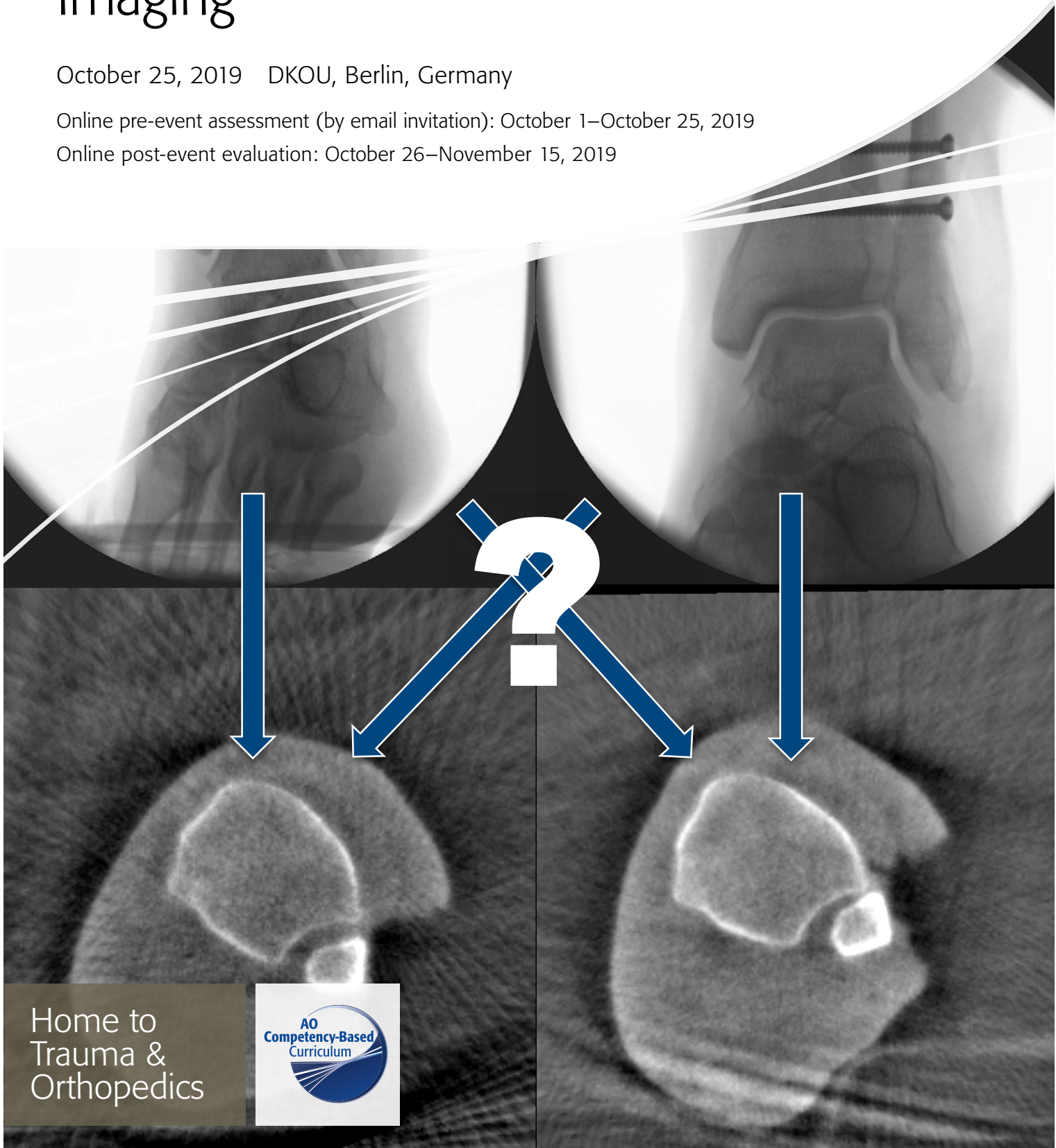
Event program

# AO Trauma Seminar—Intraoperative Imaging

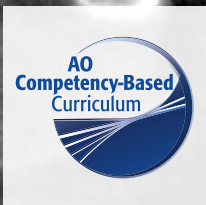
October 25, 2019 DKOU, Berlin, Germany

Online pre-event assessment (by email invitation): October 1–October 25, 2019

Online post-event evaluation: October 26–November 15, 2019



Home to  
Trauma &  
Orthopedics



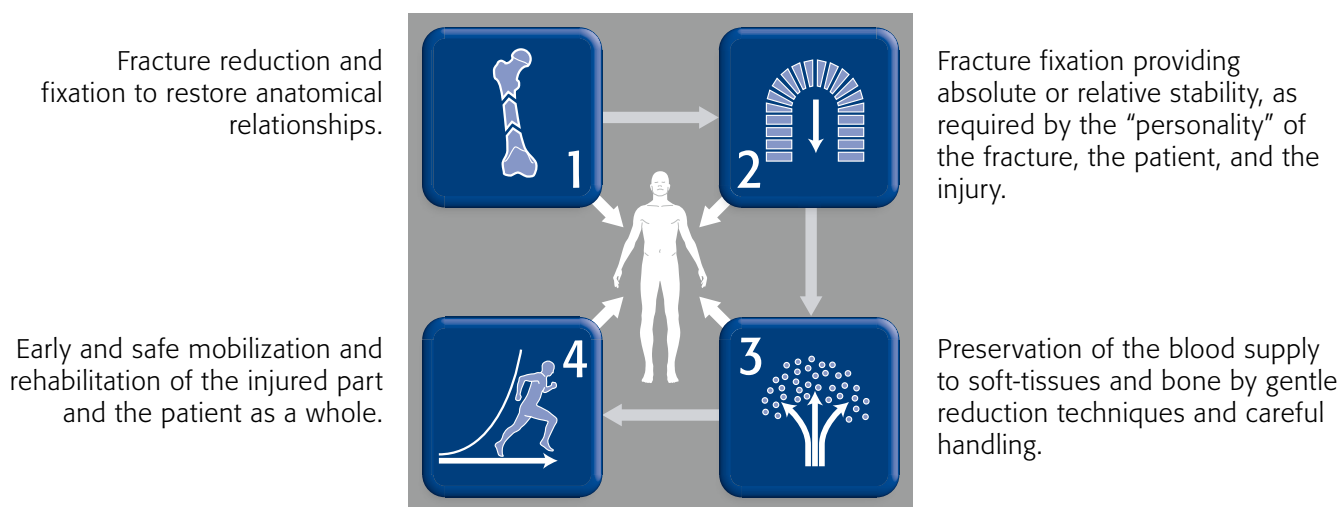
## Mission

The AO's mission is promoting excellence in patient care and outcomes in trauma and musculoskeletal disorders.

## Purpose statement

AOTrauma is committed to improve patient care outcomes through the highest quality education. We strive to combine the right knowledge and surgical skills that empower the orthopedic and trauma surgeons to put theory into practice and to improve fracture management for the benefit of the patient.

## The AO principles of fracture management



## Welcome

### Dear AOTrauma course participant,

We are honored to welcome you to the AOTrauma Seminar—Intraoperative Imaging. We hope you will enjoy your course and the entire experience.

**What is AOTrauma?** We are a “clinical division”—a community for trauma and orthopedics within the AO Foundation. As a clinical division we aim to integrate and align applied and clinical research, education, and community development functions into one direction—AOTrauma for the benefit of our members, stakeholders, and patients.

**How AOTrauma benefits you?** By working as a single team we focus and leverage our resources, expertise, and skills to create and deliver new and greater value to our members.

**What does this mean in education?** AOTrauma is committed to providing you the best possible educational experience by continuously embracing and introducing new educational techniques to help you learn and more effectively implement your knowledge for the benefit of your patients.

**Why join AOTrauma?** Joining AOTrauma means you are part of the trauma and orthopedic community within the AO. AOTrauma will help you develop lifelong friendships and relationships. We will help you access our “knowledge network” and take part in new opportunities that advance trauma care.

Yours sincerely,



**Wa'el Taha**  
Chairperson AOTrauma  
Education Commission



**Kodi Kojima**  
Chairperson AOTrauma  
International Board

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PS: Your experiences with us, over the next few days, will result in the realization of new and meaningful knowledge, skills, and understanding that we hope will translate into improved patient care.

## Goal of the seminar

The AOTrauma Intraoperative Imaging seminar addresses the principles, techniques, and concepts related to intraoperative imaging in the treatment of common fractures and the clinical problems that may arise.

## Target participants

- Surgeons at the threshold of becoming independent surgeons and taking over decision-making responsibility for the treatment of complex injuries (Advanced Principles level in AOTrauma's education).
- Surgeons in earlier years of training and all surgeons interested in imaging quality (Basic Principles level)

## Learning objectives

At the end of this seminar, participants will be better able to:

- Select 2-D and 3-D intraoperative imaging modalities based on indications and limitations
- Set up the operating room (OR) for fixation of common fractures
- Perform intraoperative 2-D imaging for proximal femur, femoral shaft, ankle, and distal radial fractures
- Assess fracture reduction and implant positioning for these fractures
- Describe the indications for intraoperative 3-D imaging and review the benefits and limitations
- Decide on postoperative CT scans

## Seminar description

This highly interactive case-based seminar is based on four common fractures where specific intraoperative imaging knowledge and skills are applied. In addition, general concepts such as appropriate indications, selection of 2-D or 3-D modalities, and radiation protection will be addressed. During each case-based session, videos and small group discussions are integrated and time for questions is included.

## Chairpersons

### **Jochen Franke**

BG Trauma Center Ludwigshafen  
Ludwigshafen, Germany

### **Paul Gruetzner**

BG Trauma Center Ludwigshafen  
Ludwigshafen, Germany

## Regional Faculty

Daniel Rikli	Universitätsspital	Basel	Switzerland
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## National faculty

Axel Gänsslen	Klinikum der Stadt Wolfsburg	Wolfsburg	Germany
Michael Kraus	Orthix Zentrum	Augsburg	Germany
Benedict Swartman	BG Trauma Centre Ludwigshafen	Ludwigshafen	Germany
Sven Vetter	BG Trauma Centre Ludwigshafen	Ludwigshafen	Germany

## Friday, October 25, 2019

TIME	AGENDA ITEM	WHO
12:30–13:00	Participants registration	
13:00–13:15	Introduction—imaging to improve patient outcomes in fracture fixation	P Gruetzner, J Franke
13:15–14:00	<p><b>Case 1—Proximal femoral fracture</b> Open reduction and internal fixation with a nail</p> <p>Learning outcomes:</p> <ul style="list-style-type: none"> <li>• Set up the OR for proximal femoral fracture fixation, with appropriate positioning of the patient, C-arm, and personnel</li> <li>• Identify anatomical landmarks on AP and lateral views and perform 2-D imaging</li> <li>• Assess fracture reduction and implant positioning, with dynamic image intensification for screw position and decide if postoperative CT for evaluation is necessary</li> </ul>	M Kraus All faculty (small groups)
14:00–14:45	<p><b>Case 2—Femoral shaft fracture</b> Closed reduction and intramedullary nailing</p> <p>Learning outcomes:</p> <ul style="list-style-type: none"> <li>• Position the patient and C-arm appropriately for adequate viewing of the anatomical landmarks on AP and lateral views</li> <li>• Use intraoperative imaging to assess fracture reduction and implant position (eg, axis, length, torsion)</li> <li>• Conduct postoperative CT assessment (eg, length, torsion)</li> </ul>	A Gänsslen All faculty (small groups)
14:45–15:15	COFFEE BREAK	

## Friday, October 25, 2019

TIME	AGENDA ITEM	WHO
15:15–16:00	<b>Case 3—Ankle fracture</b> Open reduction, plating of fibula  Learning outcomes: <ul style="list-style-type: none"><li>• Evaluate reduction of upper ankle joint fractures with a syndesmotic injury</li><li>• Analyze the upper ankle joint with conventional radiography</li><li>• Recognize the benefits of 3-D image intensification in the treatment of upper ankle joint fractures</li></ul>	S Vetter All faculty (small groups)
16:00–16:45	<b>Case 4—Distal radial fracture</b> Open reduction, volar plating, intraoperative 3-D imaging  Learning outcomes: <ul style="list-style-type: none"><li>• Identify anatomical landmarks on standard (AP and lateral) views</li><li>• Assess fracture reduction and implant positioning, with dynamic image intensification for screw position on 2-D imaging</li><li>• Set up the OR for 3-D imaging in the treatment of distal radius fractures</li><li>• Recognize the benefits of 3-D image intensification in the treatment of distal radius fractures</li></ul>	D Rikli, J Franke All faculty (small groups)
16:45–17:00	Questions and evaluation	P Gruetzner, J Franke

## Event organization

### **AOTrauma Education**

Bettina Bolliger  
Clavadelerstrasse 8  
7270 Davos Platz, Switzerland  
Phone +41 81 414 27 22  
Fax +41 81 414 22 84  
Email [bbolliger@aotrauma.org](mailto:bbolliger@aotrauma.org)

### **AO funding sources**

Unrestricted educational grants from different sources are collected and pooled together centrally by the AO Foundation. All events are planned and scheduled by local and regional AO surgeon groups based on local needs assessments. We rely on industrial/commercial partners for in-kind support to run simulations/skills training if educationally needed.

### **Event organization compliance**

In certain countries where AO has no office but offers educational events, the AO cooperates with third party companies to conduct local organization and logistics, as well as to communicate with participants in the local language. In these cases the AO has put rules and guidelines in place (Letter of Secondment, AO Foundation—Principles of AO Educational Events) to ensure that this cooperation has no impact on the curricula, scientific program, or faculty selection.

## Event venue

### **DKOU**

Messe Berlin,  
Eingang Süd  
Room: Weimar 5



## General information

### Event fee

AOTrauma Seminar—Intraoperative Imaging: **EUR 50**. Please be aware that you will also need to have a valid entrance ticket to the DKOU. If you do not have a ticket yet, you can purchase one with the following link: <https://dkou.org/registrierung/>  
Included in the seminar are the documentation, coffee break, and course certificate.

### Seminar language

English

### Conflicts of Interest (COI)

All disclosure information can be viewed at the event webpage: <http://AOTRAUMA10010210.aotrauma.org>

### Evaluation guidelines

All AOTrauma events apply the same evaluation process, online pre- and post-evaluation and onsite paper and pencil questionnaires. This helps AOTrauma to ensure that we continue to meet your training needs.

### Intellectual property

Event materials, presentations, and case studies are the intellectual property of the event faculty. All rights are reserved. Check hazards and legal restrictions on [www.aofoundation.org/legal](http://www.aofoundation.org/legal).

**Recording, photographing, or copying of lectures, practical exercises, case discussions, or any event materials is absolutely forbidden.**

The AO Foundation reserves the right to film, photograph, and audio record during their events. Participants must understand that in this context they may appear in these recorded materials. The AO Foundation assumes participants agree that these recorded materials may be used for AO marketing and other purposes, and maybe made available to the public.

### Security

There will be a security check at the entrance of the building. Wearing of a name tag is compulsory during lectures, workshops, and group discussions.

### No insurance

The event organization does not take out insurance to cover any individual against accidents, theft, or other risks.

### Mobile phone use

Mobile phone use is not allowed in the lecture halls and in other rooms during educational activities. Please be considerate of others by turning off your mobile phone.

### Dress code

Casual or sportswear

### Online resources

available at [www.aotrauma.org](http://www.aotrauma.org) (AOTrauma, Education, Self-directed Learning: eg, Interactive video and eLearning modules, Surgery Reference)



# AO Foundation—Principles of AO Educational Events

## Academic independence

Development of all curricula, design of scientific event programs, and selection of faculty are the sole responsibilities of volunteer surgeons from the AO network. All education is planned based on needs assessment data, designed and evaluated using concepts and evidence from the most current medical education research, and involving the expertise of the AO Education Institute ([www.aofoundation.org](http://www.aofoundation.org)).

Industry participation is not allowed during the entire curriculum development and planning process to ensure academic independence and to keep content free from bias.

## Compliance to accreditation and industry codes

All planning, organization, and execution of educational activities follow existing codes for accreditation of high-quality education:

- Accreditation Criteria of the Accreditation Council for Continuing Medical Education, USA ([www.accme.org](http://www.accme.org))
- ACCME Standards for Commercial Support: Standards to Ensure Independence in CME Activities ([www.accme.org](http://www.accme.org))
- Criteria for Accreditation of Live Educational Events of the European Accreditation Council for Continuing Medical Education ([www.uems.eu](http://www.uems.eu))

Events that receive direct or indirect unrestricted educational grants or in-kind support from industry also follow the ethical codes of the medical industry, such as:

- Eucomed Guidelines on Interactions with Healthcare Professionals ([www.medtecheurope.org](http://www.medtecheurope.org))
- AdvaMed Code of Ethics on Interactions with Health Care Professionals ([advamed.org](http://advamed.org))
- Mecomed Guidelines on Interactions with Healthcare Professionals ([www.mecomed.org](http://www.mecomed.org))

## Branding and advertising

No industry logos or advertising (with the exception of the AO Foundation and AO clinical divisions) are permitted in the area where educational activities take place.

Sponsors providing financial or in-kind support are allowed to have a promotional booth or run activities outside the educational area with approval from the event chairperson.

## Use of technologies and products in simulations

If case simulations are chosen as an educational method to educate skills, we only use technology approved by the AOTK System (AOTK)—a large independent group of volunteer surgeons developing and peer-reviewing new technology (more information about the AOTK, its development and approval process can be found on the AO Foundation website: [www.aofoundation.org](http://www.aofoundation.org)).

## Personnel

Industry staff are not allowed to interfere with the educational content or engage in educational activities during the event.

# Notes

# Driving excellence and empowering the next generation

## AOTrauma membership

Discover the advantages of joining the leading global trauma and orthopedic community, providing its members with education, research and networking opportunities worldwide.

Apply for membership at [www.aotrauma.org](http://www.aotrauma.org)



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