

Event program

# AOTrauma Masters Course—Osteotomies of the Lower Extremity

**Course with Anatomical Specimen Dissection**

April 28–May 1, 2019 Madrid, Spain



Home to  
Trauma &  
Orthopedics

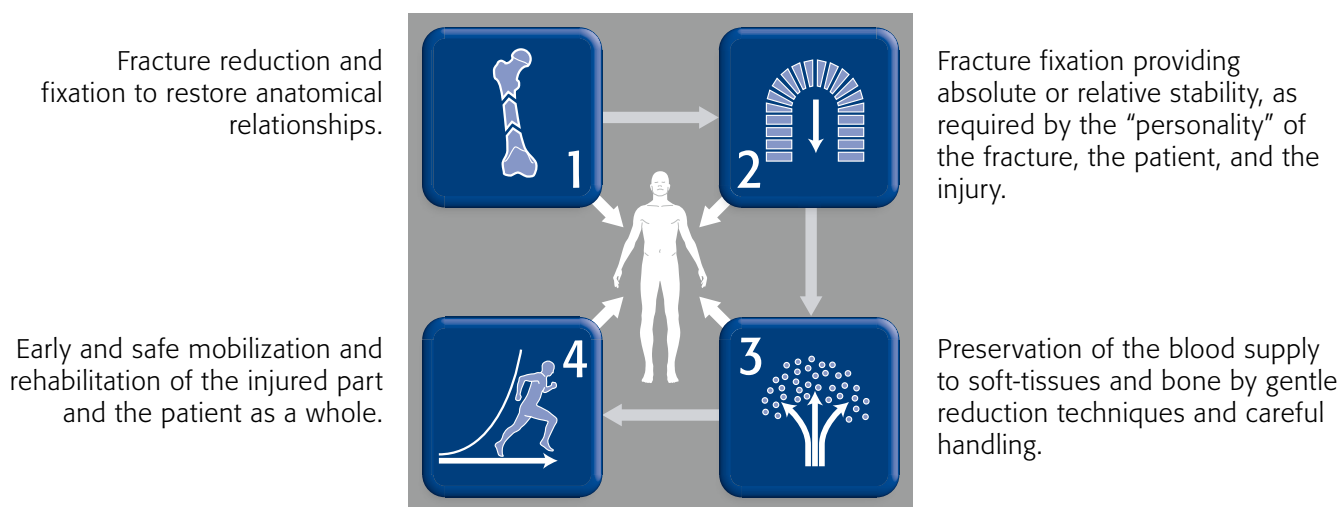
## Mission

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



The first AO Course was held in Davos in 1960—these early courses pioneered psychomotor techniques by teaching practical skills of AO Techniques. Since those early days over 455,000 surgeons and 155,000 ORP from over 110 countries have attended AO Courses.

## Content

- 2** Mission | Purpose statement
- 2** The AO principles of fracture management
- 4** Welcome
- 5** Goal of the course
- 5** Target participants
- 5** Learning objectives
- 5** Course description
- 6** Chairpersons | Faculty
- 7** Sunday, April 28, 2019
- 8** Monday, April 29, 2019
- 8** Tuesday, April 30, 2019
- 10** Wednesday, May 1, 2019
- 11** Event organization
- 11** Event venue
- 12** Event information
- 13** Exhibitions | Wireless network
- 14** AO Foundation—Principles of AO Educational Events
- 15** AOTrauma Davos Courses 2019

# Welcome

## Dear AOTrauma course participant

### Sharing a world of knowledge

Welcome to the second pilot event for the AOTrauma World Meeting in Madrid, Spain, which will take place for the first time in 2020. AOTrauma provides an outstanding selection of AOTrauma courses designed to meet your specific professional needs. We are confident that you will find the course offerings as well as the networking opportunity professionally rewarding.

With a global reputation for innovation, leadership, and excellence in Continuing Medical Education (CME), AOTrauma and the AO Education Institute are transforming education. AOTrauma is constantly expanding its portfolio of educational activities available to you. Continuing Medical Education is not just about face-to-face courses. Portfolios address the specific clinical problems that you encounter every day. Visit the AOTrauma home page ([www.aotrauma.org](http://www.aotrauma.org)) to sample the new assets which are being added constantly.

Your current level of knowledge, attitudes, and skills will be challenged throughout the week. The best-in-class curriculum and faculty will provide you with a memorable learning experience that will remain with you for a lifetime.

If you enjoy the experience during this week and would like to stay in touch with AOTrauma, we invite you to become a member. Membership for medical doctors (and DO's) requires only a completed AOTrauma Basic Principles Course and the payment of a reasonable yearly fee.

Yours sincerely,



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



**Kodi Kojima**  
Chairperson AOTrauma  
International Board

## Goal of the course

The goal of the course is to cover principles of osteotomies at the lower extremity. Constitutional deformities and posttraumatic deformities lead to acute disability or delayed disablement and osteoarthritis in the hip, knee and ankle. Osteotomies around the knee had a renaissance already 15 years ago. Principles of osteotomies around the knee is still a need in the daily practice of an orthopedic surgeon. The goal of the course is to recognize the powerful treatment of osteotomies to restore alignment. The focus is to deliver principles in diagnostics, deformity analysis, planning and state-of-the art osteotomies. Moreover, presentations will cover new ideas in surgical techniques that will probably become standard procedures in the near future.

## Target participants

The course is aimed at orthopedic surgeons interested in trauma, degenerative joint disease and deformities of the lower extremity.

Participants should have completed the AOTrauma Courses—Basic Principles and Advanced Principles of Fracture Management and must be able to communicate well in English.

## Learning objectives

Upon completion of the course, participants should be able to:

- Analyze frontal, sagittal, and axial plane alignment of the leg and plan correction of limb alignment
- Apply the principles of preoperative planning for osteotomies around the knee, hip, and ankle
- Recognize the relevance of constitutional and posttraumatic deformity for the treatment of knee osteoarthritis
- Review technical pearls for these operative procedures and describe the latest developments in techniques, implants, and instrumentation
- Perform the most relevant approaches for the lower extremity (osteotomies)

## Course description

The course is delivered using a combination of small group discussions, cases, exercises with anatomical specimens and practical exercise in deformity analysis, and summary lectures. All activities are moderated by expert faculty in a highly interactive learning environment. Participants are encouraged to discuss the cases and content in an open manner and to share their own experiences.

## Chairperson



**Steffen Schröter**  
BG Trauma Center Tübingen  
University of Tübingen  
Tübingen, Germany

## Co-Chairperson



**Philipp Lobenhoffer**  
Gelenkchirurgie Orthopädie Hannover  
Hannover, Germany

## International Faculty

Mohamed Abulsoud	Al-Azhar University	Cairo	Egypt
Fabricio Fogagnolo	Sao Paulo University, Hospital das Clínicas de Ribeirão Preto	Ribeirão Preto	Brazil
Ye Huang	Beijing Jishuitan Hospital	Beijing	China
Mauricio Kfuri	Missouri Orthopaedic Institute, University of Missouri	Columbia	USA

## Regional Faculty

Matthew Dawson	Cumberland Infirmary	Carlisle	United Kingdom
Iztok Gril	University Medical Centre Ljubljana	Ljubljana	Slovenia
Joerg Harrer	Helmut-G.-Walther Klinikum Lichtenfels	Lichtenfels	Germany
Fabian Stuby	BG Trauma Center Murnau	Murnau	Germany
Ronald van Heerwaarden	Kliniek ViaSana	Mill	Netherlands



## Sunday, April 28, 2019

TIME	AGENDA ITEM
15:00	Opening of the course venue
15:00–17:00	Registration of participants
17:00–18:00	Opening ceremony
18:00–19:00	AOTRAUMA RECEPTION

## Monday, April 29, 2019

TIME	AGENDA ITEM	WHO
09:00–09:05	Welcome and introduction to the course and today's modules	S Schröter, P Lobenhoffer
<b>Module 1</b>	<b>Deformity analysis and planning</b>	Moderator: S Schröter
09:05–09:20	Rationale for osteotomies at the lower extremity	M Kfuri
09:20–09:45	Deformity analysis in the frontal plane	J Harrer
09:45–10:00	Deformity analysis in the sagittal and axial plane	S Schröter
10:00–10:15	Planning an osteotomy (all planes)	R van Heerwaarden
10:15–10:45	COFFEE BREAK	
10:45–13:00	<b>Planning exercise</b> <b>Deformity analysis and planning</b>	R van Heerwaarden, J Harrer All faculty
13:00–13:30	LUNCH BREAK	
13:30–14:00	TRANSFER TO THE ANATOMICAL LABORATORY MEETING POINT 13:30 MAIN ENTRANCE COURSE VENUE	
14:00–14:10	Preparation for the anatomical specimen laboratory	
<b>Module 2</b>	<b>Tibial osteotomies</b>	Moderator: M Kfuri
14:10–18:00	<b>Anatomical specimen laboratory</b> <ul style="list-style-type: none"> <li>• Approach and perform medial open wedge high tibial osteotomy (HTO)</li> <li>• Approach distal femoral osteotomy (DFO)</li> <li>• Perform extension/flexion-osteotomy—dome shaped</li> <li>• Approach and perform biplanar distal tibia osteotomy</li> </ul>	All faculty Y Huang R van Heerwaarden P Lobenhoffer S Schröter
18:00–18:10	Summary, evaluation, and take-home messages	R van Heerwaarden
18:10–18:40	TRANSFER TO THE COURSE VENUE MEETING POINT 18:10 MAIN ENTRANCE ANATOMICAL LABORATORY	

## Tuesday, April 30, 2019

TIME	AGENDA ITEM	WHO
<b>Module 3</b>	<b>Osteotomies around the knee</b>	Moderator: Y Huang
09:00–09:05	Introduction to today's module	P Lobenhoffer
09:05–09:10	LOCATION CHANGE TO DISCUSSION GROUPS	
09:10–10:30	<b>Discussion group 1</b> <b>Osteotomies around the knee</b> Group A – Disc Room 5 Group B – Disc Room 6 Group C – Lecture Room	M Kfuri, M Abulsoud F Fogagnolo, F Stuby, M Dawson P Lobenhoffer, I Gril, Y Huang
10:30–11:00	COFFEE BREAK	
11:00–11:15	Intraarticular osteotomies of the tibial plateau	P Lobenhoffer
11:15–11:30	New concepts of HTO—lengthening nail	M Dawson
11:30–12:00	<b>Panel discussion</b> <ul style="list-style-type: none"> <li>• Indications for HTO versus unicompartmental knee arthroplasty (UKA) versus total knee arthroplasty (TKA)</li> <li>• Osteotomies in posttraumatic deformities versus TKA</li> </ul>	Y Huang, M Kfuri, P Lobenhoffer, R van Heerwaarden
12:00–12:15	Evidence in osteotomies around the knee	M Abulsoud
12:15–12:20	LOCATION CHANGE TO DISCUSSION GROUPS	
12:20–13:00	<b>Discussion group 2</b> <b>Osteotomies—patellar dislocations</b> Group A – Disc Room 5 Group B – Disc Room 6 Group C – Lecture Room	S Schröter, M Dawson F Fogagnolo, M Kfuri, J Harrer R van Heerwaarden, M Abulsoud, Y Huang
13:00–14:00	LUNCH BREAK	



## Tuesday, April 30, 2019

TIME	AGENDA ITEM	WHO
<b>Module 4</b>	<b>Osteotomies at the proximal femur</b>	Moderator: F Stuby
14:00–14:15	Osteotomy at the proximal femur in posttraumatic deformity	I Gril
14:15–14:30	Surgical technique of the proximal femoral osteotomy and blade plate	F Stuby
14:30–14:35	LOCATION CHANGE TO DISCUSSION GROUPS	
14:35–15:30	<b>Discussion group 3</b> <b>Osteotomies around the proximal femur</b> Group A – Disc Room 5 Group B – Disc Room 6 Group C – Lecture Room	F Stuby, P Lobenhoffer F Fogagnolo, Y Huang, S Schröter I Gril, M Dawson, M Abulsoud
15:30–16:00	COFFEE BREAK	
<b>Module 5</b>	<b>Osteotomies at the distal tibia and tibial shaft</b>	Moderator: J Harrer
16:00–16:15	Indications in posttraumatic osteoarthritis of the ankle?	M Kfuri
16:15–16:30	Ring fixator in deformities at the lower extremity	I Gril
16:30–16:35	LOCATION CHANGE TO DISCUSSION GROUPS	
16:35–17:45	<b>Discussion group 4</b> <b>Osteotomies at the distal tibia and tibial shaft</b> Group A – Disc Room 5 Group B – Disc Room 6  Group C – Lecture Room	I Gril, F Fogagnolo R van Heerwaarden, F Stuby, S Schröter J Harrer, M Abulsoud, Y Huang
17:45–17:50	LOCATION CHANGE TO LECTURE ROOM	
17:50–18:00	Summary, evaluation, and take-home messages	M Dawson

## Wednesday, May 1, 2019

TIME	AGENDA ITEM	WHO
07:50–08:30	TRANSFER TO THE ANATOMICAL LABORATORY MEETING POINT 07:50 MAIN ENTRANCE COURSE VENUE	
08:30–08:40	Preparation for the anatomical specimen laboratory	
<b>Module 6</b>	<b>Femoral osteotomies</b>	Moderator: M Kfuri
08:40–12:30	<b>Anatomical specimen laboratory</b> <ul style="list-style-type: none"> <li>• Approach and perform subtrochanteric osteotomy, blade plate fixation</li> <li>• Approach and perform lateral closed wedge HTO (fibula midshaft osteotomy)</li> <li>• Dissection of the knee—protection of the vessels</li> </ul>	All faculty F Stuby J Harrer P Lobenhoffer
12:30–13:00	TRANSFER TO THE COURSE VENUE MEETING POINT 13:00 MAIN ENTRANCE ANATOMICAL LABORATORY	
13:00–13:30	LUNCH BREAK	
13:30–14:00	Complications in osteotomies and how to treat them	J Harrer
14:00–14:15	Recent developments and perspectives	S Schröter
14:15–14:30	Summary of the day, evaluation, closing remarks, and distribution of certificates	P Lobenhoffer, S Schröter

## Event organization

### **AOTrauma Education**

Bettina Bolliger  
Clavadelstrasse 8  
7270 Davos  
Switzerland  
Tel +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 venue

### **Duques de Pastrana**

Paseo de la Habana, 208  
8016 Madrid, Spain

### **Anatomical Specimen Laboratory**

#### **Bodies Donation Centre**

#### **Universidad Complutense de Madrid**

Ciudad Universitaria, Facultad de Medicina, Pabellón 6  
Plaza de Ramón y Cajal s/n.  
28040 Madrid, Spain

A transfer to and from the anatomical specimen laboratory is organized. Please read your course program for the detailed departure times.

## Event information

### Event fee

AOTrauma Masters Course—Osteotomies of the Lower Extremity: CHF 2600.00  
Included in the event fee are the conference bag with documentation, coffee breaks, lunches, course reception, and course certificate.

### European CME Accreditation

For this course the UEMS-EACCME® in Brussels have granted **XXX** European CME credits (ECMEC®s).

### Conflicts of Interest (COI)

All disclosure information can be viewed at the event webpage:  
<http://AOTRAUMA10009938.aotrauma.org>

### Course certificate

The course certificates will be available at the end of the event at the welcome desk.

### Evaluation guidelines

All AOTrauma events apply the same evaluation process, online pre- and post-event evaluation and on-site 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 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, practical exercises, 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



## Exhibitions

Visit our exhibition booths in the coffee and lunch area of the event venue. At the AOTrauma and AO Education Institute booths you can explore membership opportunities, browse our print and electronic publications, and learn about groundbreaking activities like AOSTaRT, Touch Surgery, and AO Interact.

Our major industry partners DePuy Synthes and Siemens, who are contributing in-kind support (material and logistics), will also be present.

## Wireless network

There is a free wireless network available for all participants.

### Event venue

How to connect to the Wireless LAN

- Open the Wireless Network Connection Window
- Choose the **AOTRAUMA** network and click on the **Connect** Button
- Network key: **AOTRAUMA2019**
- Then click on the **OK** Button

### Anatomical specimen laboratory

How to connect to the Wireless LAN

- Open the Wireless Network Connection Window
- Choose the **congresosUCM** network and click on the **Connect** Button
- Username: **aotrauma@congreso.ucm.es**
- Password: **aotrauma2018ucm**
- Then click on the **OK** Button.

## 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.

# AOTrauma Davos Courses 2019

## **AO Courses—December 1–6, 2019**

- AOTrauma Course—Basic Principles of Fracture Management
- AOTrauma Course—Advanced Principles of Fracture Management
- AOTrauma Course—Advanced Principles of Fracture Management for Swiss Residents
- AOTrauma Masters Course—Current Concepts—Upper Extremity I (Scapula—Clavicle—Humerus—Elbow)
- AOTrauma Masters Course—Current Concepts—Upper Extremity II (Forearm—Distal Radius—Hand)
- AOTrauma Masters Course—Current Concepts—Lower Extremity I (Proximal Femur—Tibial Pilon—Tibial Plateau)
- AOTrauma Masters Course—Current Concepts—Lower Extremity II (Distal Femur—Patella—Malleoli)
- AOTrauma Masters Course—Current Concepts—Tips from the Masters—Through the Eyes of a Master Surgeon
- AOTrauma Course—Pelvic and Acetabular Fractures
- AOTrauma/AORecon Course—Comprehensive Periprosthetic Fracture Management of the Hip and Knee

## **AO Courses—December 8–11, 2019**

- AOTrauma Course—Basic Principles of Fracture Management for Swiss Surgeons

Registration for the AOTrauma Davos Courses 2019 will open on June 13, 2019.

For further information please visit: <http://aodavoscourses.org/Home.html>



# Driving excellence and empowering the next generation

## AO Trauma 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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