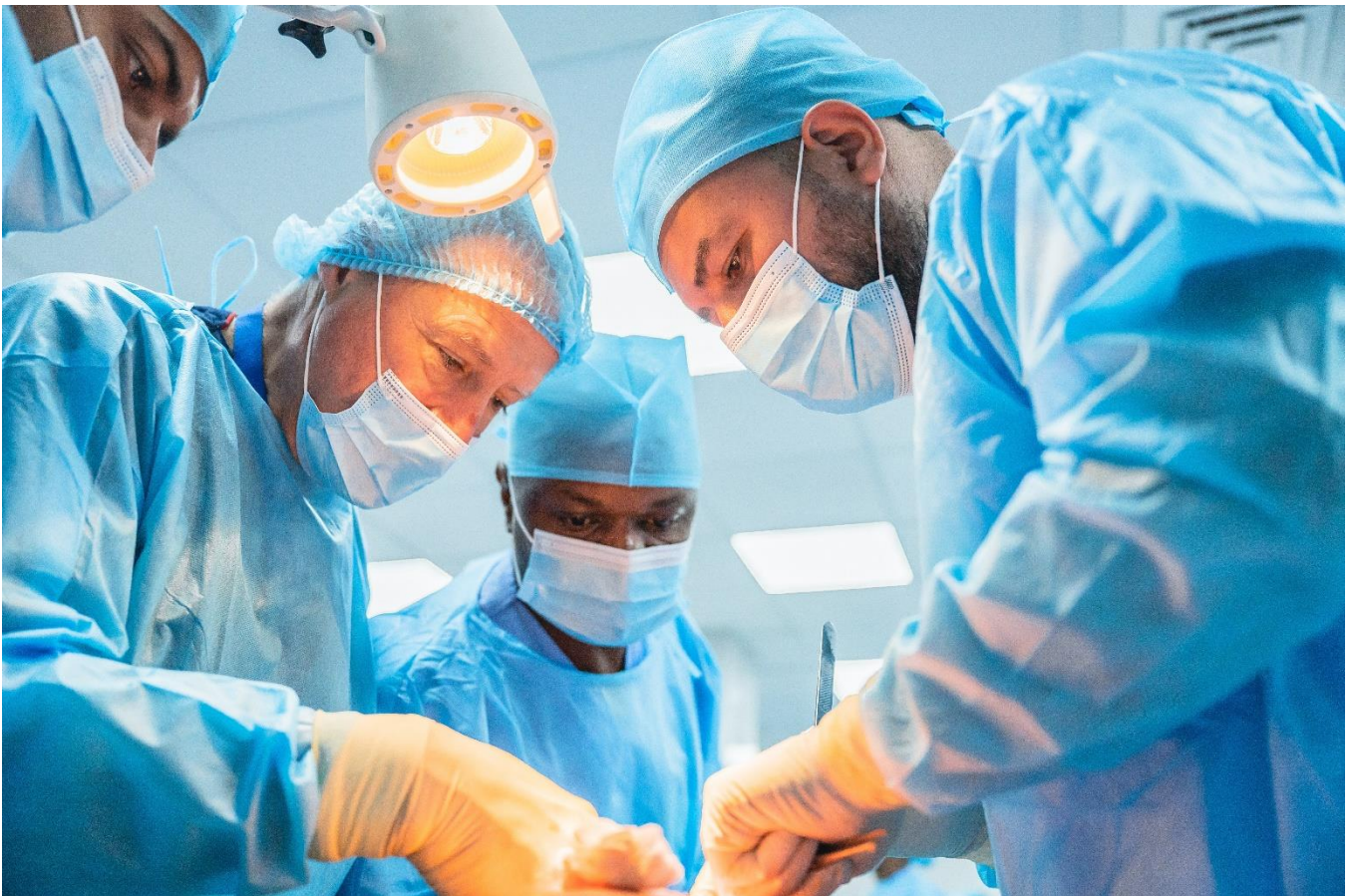


# AO Trauma Masters Course— Fractures around the knee (With Human Anatomical Specimens)

October 30 – 31, 2024

Madrid, Spain

PROGRAM



## Mission

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

## Purpose statement

AO Trauma 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

1



Fracture reduction and fixation to restore anatomical relationships.

2



Fracture fixation providing absolute or relative stability, as required by the "personality" of the fracture, the patient, and the injury.

3



Preservation of the blood supply to soft-tissues and bone by gentle reduction techniques and careful handling.

4



Early and safe mobilization and rehabilitation of the injured part and the patient as a whole.

# Welcome

## Dear AO Trauma course participant,

Welcome to AO Trauma Masters Course—Fractures around the knee (With Human Anatomical Specimens), which is planned and delivered to meet your needs using a competency-based curriculum approach and the AO's seven principles for high-quality education.

AO Trauma's innovative approach to education has been further strengthened as a result of the successful collaboration with the AO Education Institute in the application of state-of-the-art educational concepts in curriculum planning and all faculty development programs.

This course is one of our many educational activities for providing lifelong learning, from the Residents Education Program through to specialized Continuing Professional Development (CPD) for practicing surgeons and clinicians.

We believe that your active engagement in this course will result in improved care for your patients. Your current level of knowledge and skills will be challenged by the activities and throughout the entire event. We are confident that the combination of education principles and relevant content from our curriculum, as well as your interaction with colleagues and expert faculty will provide an effective learning experience that meets your needs. This seminar is part of an overall competency-based educational program that includes many other activities and resources for self-directed learning. The educational activities in each program are developed by an international taskforce of clinical experts and educationalists and made available to you through the Education section of [www.aotrauma.org](http://www.aotrauma.org).

We hope you enjoy the seminar and benefit from the networking opportunities it provides for you to share experiences with your colleagues.

Yours sincerely,



**Mark Reilly**  
Chairperson AO Trauma  
Education Commission



**Wa'el Taha**  
Chairperson AO Trauma  
International Board

If you enjoy the experience during your course and would like to stay in touch with the organization and its international network of surgeons, we invite you to become a member of AO Trauma. The benefits of membership, including options to get involved in new opportunities that advance trauma care are described at [www.aotrauma.org](http://www.aotrauma.org).

## Goal of the event

Participants will learn about the current management of knee trauma-related patient problems to improve the knowledge and skills on fractures involving distal femur and/or proximal tibia, sharing experiences with expert trauma and orthopaedic surgeons.

## Target participants

Participants in this course must have completed the AO Trauma Course—Basic Principles of Fracture Management, and, preferable, the AO Trauma Course—Advanced Principles of Fracture Management.

Participants must be Orthopedic and trauma surgeons in the professional practice with at least 5 years of experience.

## Event objectives

After the course, participants should be able to:

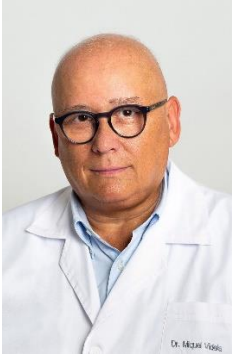
- Carry out an appropriate approach in the management of complex knee fractures: diagnosis and treatment (approach, reduction techniques, selection of the implant, positioning of the patient in surgery) and postoperative management.
- Develop a management plan based on needs of the patient, the characteristics of the injury and the different possible management options.
- Diagnose and treat specific knee pathologies, such as fractures of the distal femur, tibial plateau and patella.
- Know and apply different options for surgical approaches based on the topographic anatomy of the fracture.
- Prevention of stiffness and application of early load.

## Event description

The cadaveric course around the knee addresses the management of complex fractures around the knee, giving a comprehensive approach managing the bony part and the associated soft tissue injury.

The course includes a combination of evidence-based lectures, small group case discussions moderated by experts, who will provide the best current evidence, providing tips and tricks to optimize results and minimize complications.

## Chairpersons



**Miquel Videla-Cés**  
Complex Hospitalari Moisès Broggi  
Sant Joan Despí, Barcelona, Spain



**Carlos Olaya**  
Hospital Universitario 12 de Octubre  
Madrid, Spain

## Regional Faculty

Johannes Glasbrenner, University Hospital Münster, Münster, Germany

Marco Berlusconi, ASST PINI CTO MILAN, Milan, Italy

## National Faculty

Carlomagno Cárdenas Nylander, Institut Català de Traumatologia i Medicina de l'Esport (ICATME), Barcelona

Eudald Romero Pijoan, Complex Hospitalari Moisès Broggi, Sant Joan Despí, Barcelona

Eladio Saura Sánchez, Hospital Universitario de Elche, Elche

Jordi Tomàs Hernández, Hospital Vall d'Hebron, Barcelona

Josep M<sup>a</sup> Muñoz Vives, Fundació Althaia, Manresa, Spain

# Wednesday

October 30, 2024

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08:30-08:50	Registration of participants	
08:50-09:00	Welcome and introduction	M Videla-Cés, C Olaya

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## Module 1

**Moderator:**

### Fractures of the distal femur

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09:00-09:15	Approaches of the distal femur	M Videla-Cés
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09:15-09:30	Extraarticular osteoporotic distal femur fractures: Anatomically precontoured low profile plates	JM Muñoz
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09:30-09:45	Extraarticular osteoporotic distal femur fractures: Retrograde Femoral Nail	J Tomàs
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09:45-10:00	Is it needed the medial support? (double plating, medial allograft, nail-plating?)	M Berlusconi
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10:00-10:15	Extraarticular osteoporotic distal femur fractures: Combo	J Tomàs
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10:15-10:30	Extraarticular osteoporotic distal femur fractures: Double plating	M Videla-Cés
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10:30-10:45	How to deal with articular fractures of the distal femur? Tips, Tricks and management of Hoffa fractures	JM Muñoz
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10:45-11:10 *Coffee break*

11:10-12:00 **Discussion groups** All faculty

Fractures of the distal femur

- Group 1
- Group 2
- Group 3

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## Module 2

Moderator:

### Tibial plateau fractures

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12:00-12:10	From the emergency to the operating room. One or two stage surgery? Patient management	C Olaya
12:10-12:30	Classification and approach strategy in tibial plateau fractures	J Glasbrenner
12:30-12:45	360° approach concept, structures at risk	M Videla-Cés
12:45-13:00	Epicondyle osteotomy. Pros & cons	E Romero
13:00-13:15	Fibular neck osteotomy. Pros & cons	J Glasbrenner
13:15-14:15	<b>Discussion groups</b>  Tibial plateau fractures <ul style="list-style-type: none"><li>• Group 1</li><li>• Group 2</li><li>• Group 3</li></ul>	All faculty
14:15-15:30	<i>Lunch break</i>	

## WET LAB

15:30-16:30	TARPO APPROACH Swashbuckler Approach VA Distal Femur Plate	JM Munoz, M Berlusconi
16:30-17:30	RFN-Advanced Nail LAW System	J Tomàs
17:30-18:00	<i>Coffee break</i>	
18:00-19:00	Extended Anterolateral Approach to the Tibial plateau. Epicondyle osteotomy & Fibular neck osteotomy	J Glasbrenner
19:00-20:00	Posterior approach Lobenhoffer and Carlson	J Glasbrenner
20:00-20:05	Closing remarks	M Videla-Cés, C Olaya
20:05	End of Day 1	

# Thursday

October 31, 2024

## Module 3

Moderator:

### Periprosthetic & Peri-implant fractures

09:00-09:15	Management of fractures around hip prostheses	C Cárdenas
09:15-09:30	Management of fractures around knee prostheses	M Berlusconi
09:30-09:45	Treatment algorithm for peri-implant femur fractures	E Romero
09:45-10:45	I bring my Case (7 minutes each, including discussion)	Cases from participants

10:45-11:00 *Coffee break*

11:00-12:15	<b>Discussion groups</b> Peri-implant fractures & Periprosthetic fractures <ul style="list-style-type: none"><li>• Group 1</li><li>• Group 2</li><li>• Group 3</li></ul>	All faculty
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## Module 4

Moderator:

### Miscellany, patella fractures & management of deformities

12:15-12:30	Floating knee	E Saura
12:30-12:45	Osteotomies around proximal tibia	J Glasbrenner
12:45-13:00	Osteotomies around distal femur	C Cárdenas
13:00-13:15	High energy patella fractures. Plating the patella	E Saura

13:15-15:00 *Lunch break*

15:00-16:00	<b>Discussion groups</b> Post-traumatic axial deformities; High energy patella fractures <ul style="list-style-type: none"><li>• Group 1</li></ul>	All faculty
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- Group 2
- Group 3

## WET LAB

16:00-17:00	Dissection of the medial aspect of the knee and thigh, Vascular bundle identification. New periprosthetic plates	M Berlusconi
17:00-17:30	<i>Coffee break</i>	
17:30-18:30	Patellar approach and application of the patella plate	E Saura
18:30-18:40	Closing remarks & Closing of the Course	M Videla-Cés, C Olaya
18:40	End of the course	

# Event information

## Organization

### AO Foundation

Admayatescha Martinez  
Clavadelerstrasse 8 | 7270 Davos | Switzerland  
Email: [admayatescha.martinez@aofoundation.org](mailto:admayatescha.martinez@aofoundation.org)  
T: +41 79 536 12 71

### Participants' contact

Ariadna Guirao  
E-mail: [ariadna.guirao@aofoundation.org](mailto:ariadna.guirao@aofoundation.org)  
T: +41 79 458 73 99

### Registration fee

1,500 EUR  
AO Trauma Members: 1,426 EUR  
Included in the course fee are coffee breaks, lunches (day 1,2) and course certificates.

### European CME accreditation (if applicable)

An application has been made to the UEMS-EACCME® in Brussels for European CME credits (ECMEC).

### Cancellation policy

Cancellation policy: 50% until 30 days before the event. No refund thereafter.

### Online Registration

<https://aofnd.my.site.com/evt/s/evt-event/a1o6800000Tuy1>

### Language

English

# Venue

### Universidad Complutense de Madrid

Anatomical Specimen Laboratory  
Bodies Donation Centre  
Ciudad Universitaria, Facultad de Medicina, Pabellón 6  
Plaza de Ramón y Cajal, s/n  
28040 Madrid, Spain  
Website: [www.ucm.es/cdcysd](http://www.ucm.es/cdcysd)

# General information

## 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 to ensure that this cooperation has no impact on the curricula, scientific program, or faculty selection.

## AO funding sources

Unrestricted educational grants from different sources are collected and pooled together centrally by the AO.

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.

## Evaluation guidelines

All AO Trauma events apply the same evaluation process, which includes pre- and post-event online evaluation and ARS or on-site written questionnaires. These evaluation tools help ensure that AO Trauma continues to meet your training needs.

## Disclosures and conflicts of interest

Disclosure information and potential conflicts of interest (COI) can be viewed at the event webpage.

## Intellectual property

Event materials, presentations, and case studies are the intellectual property of the event faculty. All rights are reserved. For more information, please see: [www.aofoundation.org/legal](http://www.aofoundation.org/legal).

Recording, photographing, or copying of lectures, practical exercises, case discussions, or any course materials is strictly forbidden.



The AO Foundation reserves the right to film, photograph, and audio record during its 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 that they may be made available to the public.

## Security

There will be a security check at the entrance of the building. Wearing a name tag is compulsory at all times 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.

## Use of mobile phone

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.

## Sponsor

We thank our major industry partner DePuy Synthes for contributing key in-kind support (materials and logistics), without which this event would not be possible, as well as an unrestricted educational grant.



# Principles of AO educational events

## 1. Academic independence

Development of all curricula, design of scientific event programs, and selection of faculty are the sole responsibilities of volunteer AO network surgeons.

All education is planned based on needs assessment data, designed and evaluated using concepts and evidence from the most current medical education research, and reflects 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.

## 2. 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, US ([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))

## 3. Branding and advertising

No industry logos or advertising (apart from the AO Foundation and its 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.

## 4. Use of technologies and products in simulations

In case simulations are chosen as an educational method to educate skills, we only use technology approved by the AO Technical Commission—a large independent group of volunteer surgeons developing and peer reviewing new technology.

More information about the AO Technical Commission and its development and approval processes can be found on the AO's website: [www.aofoundation.org](http://www.aofoundation.org).

## 5. Personnel

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