

AO Trauma Hybrid Course— **Advanced Principles of Fracture Management**

November 25–27,
2021

Athens,
Greece

PROGRAM



Mission

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

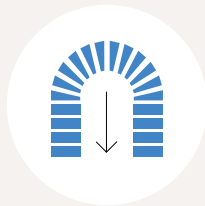
The AO principles of fracture management

1



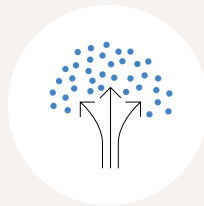
Fracture reduction and fixation to restore anatomical relationships.

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.

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Welcome

Dear AO Trauma course participant,

Welcome to the AO Trauma Hybrid Course—Advanced Principles of Fracture Management, 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 seminar 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 seminar 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.

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



Mike Baumgaertner
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.

Course description

Online precourse self-assessment prepares participants for the course and allows the faculty to tailor the course to the needs of the participants.

The course will be taught in a modular format. Each module consists of several evidence-based lectures, which will cover the key information required. In practical exercises participants will be trained in the application of various techniques. Discussing cases in small groups will help participants to understand decision-making and management skills.

After the course an online postcourse self-assessment will provide participants with an opportunity to review the important topics from the course. To support self-directed learning, a range of additional online resources will be offered.

Goal of the course

The AO Trauma Hybrid Advanced Principles course builds upon the AO Principles and techniques learned in the AO Trauma Basic Principles course and focuses on the principles and techniques of operative fracture management in more complex injuries.

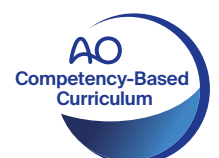
Target participants

The AO Trauma Hybrid Course—Advanced Principles of Fracture Management is targeted at surgeons at the threshold of becoming independent surgeons and taking over decision-making responsibility for the treatment of complex injuries. Participants must have already completed the AO Trauma Course—Basic Principles of Fracture Management and must be actively involved in trauma management.

Learning objectives

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

- Apply reduction techniques in fracture management with attention to soft tissues
- Assess and treat complex diaphyseal and (peri)articular fractures using advanced application techniques
- Demonstrate strategies for assessing and treating open fractures and soft-tissue injuries
- Initiate appropriate management for patients with pelvic injuries and polytrauma
- Recognize complications and manage these accordingly



Chairperson



George C. Babis

Professor and Chairman
2nd Orthopaedic Department
National and Kapodistrian
University of Athens,
School of Medicine,
Greece, Athens

Regional faculty

Andrey	Volna	Ilyinskay Hospital	Moscow	Russian Federation
Steven	Velkes	Rabin Medical Center	Petah-Tikva	Israel

National faculty

Minos	Tyllianakis	Patras University	Patras	Greece
Panagiotis	Givissis	Aristotle University of Thessaloniki	Thessaloniki	Greece
Andreas	Panagopoulos	University hospital of Patras	Patras	Greece
Theodoros	Tosounidis	University of Crete	Heraklion	Greece
Ioannis	Lachanas	401 General Army Hospital of Athens	Athens	Greece
Zinon	Kokkalis	Medical School, University of Patras	Patras	Greece
Nikolaos	Natsioulas	Naval Hospital of Athens	Athens	Greece
Vasileios	Nikolaou	National and Kapodistrian University of Athens	Athens	Greece
Spyridon	Darmanis	Athens Military Hospital	Athens	Greece
Konstantinos	Papoutsis	Naval & Veterans Hospital of Athens	Athens	Greece
Konstantinos	Ditsios	Aristotle University of Thessaloniki	Thessaloniki	Greece
Georgios	Arealis	East Kent Hospitals University NHS Foundation Trust	Canterbury	United Kingdom
Emmanouil	Stamatis	401 General Army Hospital	Athens	Greece

08:00–08:15	Welcome and introduction to the course, how to get the most out of your course	G Babis
Module 1		
Review of the principles and new techniques		
08:15–08:30	Review of the principles of fracture	I Lachanas
08:30–08:45	Clinical applications for locked plating	N Natsioulas
08:45–09:00	Minimally invasive osteosynthesis (MIO)—minimizing surgical footprints	Th Tosounidis
09:00–10:30	Practical exercise 1 Reduction techniques	I Lachanas, K Papoutsis
10:30–10:50	Coffee break	
10:50–12:00	Small group discussion 1 Reduction techniques—concepts and application Group 1 Group 2 Group 3 Group 4 Group 5	1 S Velkes, A Panagopoulos 2 I Lachanas, N Natsioulas 3 V Nikolaou, K Papoutsis 4 Th Tosounidis, K Ditsios 5 A Volna, G Arealis
12:00–13:00	Lunch break	
Module 2		
Advanced principles in complex diaphyseal fractures		
13:00–13:15	Complex humeral shaft fractures	A Panagopoulos
13:15–13:30	Complex forearm fractures	Z Kokkalis
13:30–13:45	Current treatment options of subtrochanteric fractures	K Papoutsis
13:45–14:00	Proximal, distal, and segmental tibial shaft fractures	I Lachanas
14:00–14:30	Case-based panel discussion	Z Kokkalis
Module 3		
Articular shoulder fractures		
14:30–14:45	Fractures of the scapula—indications for surgery and methods of fixation	P Givissis
14:45–15:00	Fractures of the Clavicle: when and how to operate	A Panagopoulos
15:00–15:30	Proximal humeral fractures—to fix, to replace, or to treat nonoperatively?	G Arealis
15:30–15:50	Coffee Break	
15:50–17:00	Small group discussion 2 Upper extremity fractures—decision making and methods of stabilization Group 1 Group 2 Group 3 Group 4 Group 5	1 P Givissis, A Panagopoulos 2 K Ditsios, N Natsioulas 3 M Tyllianakis, V Nikolaou 4 T Tosounidis, G Arealis 5 Z Kokkalis, S Darmanis
17:00–18:20	Practical exercise 2 Fixation of a proximal forearm fracture	Z Kokkalis, K, Ditsios

Module 4 Articular elbow and wrist fractures

08:00–08:15	Distal humerus—intraarticular fractures and complications	G Arealis
08:15–08:30	Fracture dislocations of the elbow	K Ditsios
08:30–08:45	Distal radial fractures	Z Kokkalis
08:45–09:15	Case-based panel discussion	Th Tosounidis
09:15–09:20	Location change to practical exercise	
09:20–10:35	Practical exercise 3 Fixation of a type 13C1 fracture in the distal humerus using a locking plate	P Givissis, G Arealis
10:35–10:55	Coffee break	

Module 5 Articular knee fractures

10:55–11:10	Distal femoral fractures—treatment options and outcomes	K Papoutsis
11:10–11:25	Complex tibial plateau fractures	A Volna
11:25–11:30	Location change to practical exercise room	
11:30–12:40	Practical exercise 4 Distal femur—fixation of an intraarticular type 33C2.1 fracture using a distal femoral locking plate	Th Tosounidis, N Natsioulas
12:40–13:40	Lunch Break	
13:40–15:00	Small group discussion 3 Lower extremity—femoral fractures Group 1 Group 2 Group 3 Group 4 Group 5	1 E Stamatis, A Panagopoulos 2 K Papoutsis, N Natsioulas 3 S Darmanis, I Lachanas 4 T Tosounidis, S Velkes 5 V Nikolaou, A Volna
15:00–15:05	Location change to practical exercise room	
15:05–16:20	Practical exercise 5 Management of a type 41C3 bicondylar tibial plateau fracture using a locking plate	V Nikolaou, S Darmanis
16:20–16:40	Coffee break	

Module 6 Injuries of the distal tibia, ankle, and foot

16:40–16:55	Complex malleolar fractures	M Stamatis
16:55–17:10	Early and definitive treatment of pilon fractures	Th Tosounidis
17:10–17:25	Talar neck fractures and complications	M Stamatis
17:25–17:40	Navicular and Lisfranc injuries and complications	V Nikolaou
17:40–18:05	Discussion and summary	M Stamatis

Saturday

November 27, 2021

08:00–09:30	Practical exercise 6 Management of a type 43C2.3 tibial pilon fracture using a distal tibial locking plate	E Stamatis, A Panagopoulos
09:30–09:35	Location change to lecture room	

Module 7 Articular hip and pelvic fractures

09:35–09:50	Femoral neck fractures—different patients, different problems	I Lachanas
09:50–10:05	Intertrochanteric fractures—treatment options and outcomes	S Velkes
10:05–10:20	Evaluation and emergency management of pelvic ring injuries	S Darmanis
10:20–10:35	Principles of acetabular fracture management	Th Tosounidis
10:35–10:55	Coffee Break	
10:55–11:55	Small group discussion 4 Lower extremity—femoral fractures Group 1 Group 2 Group 3 Group 4 Group 5	1 E Stamatis, Z Kokkalis 2 P Givissis, K Papoutsis 3 S Darmanis, I Lachanas 4 T Tosounidis, S Velkes 5 V Nikolaou, A Volna
11:55–12:00	Location change to lecture room	

Module 8 Introduction to Ring Fixation

12:00–12:15	Introduction to Ring Fixation	A Volna
12:15–13:30	Practical exercise 7 Ring Fixator Montage Principles for Fracture and Deformity Treatment'	A Volna
13:30–14:00	Sandwich break	

Module 9 Potential life-threatening problems

14:00–14:15	Management of multiple-injured patients Damage	S Darmanis
14:15–14:30	Mangled extremity management	P Givissis

Module 10 Complications and special problems

14:30–14:45	Treatment of metaphyseal and diaphyseal nonunion	S Velkes
14:45–15:00	Infection after osteosynthesis	A Volna
15:00–15:15	Principles of orthogeriatric fracture care	A Panagopoulos
15:15–15:30	Periprosthetic fractures	G Babis
15:30–15:45	Violation of AO principles—staying out of trouble	M Tyllianakis
15:45–16:00	Closing remarks and end of course	G Babis

Event information

Organization

Anja Sutter
Clavadelerstrasse 8
Davos Platz, Switzerland
Phone +41 79 758 52 69
E-mail anja.sutter@aofoundation.org

Participants' contact:

E-mail aoges.emea@aofoundation.org

Registration fee

Standard Ticket : EUR 780
Included in the course fee are coffee breaks, lunch, bag and course certificate

Online registration

<https://sforce.co/3Bt1CZg>

Language

English



European CME accreditation

An application has been made to the UEMS-EACCME® in Brussels for CME accreditation of this event. For this event the UEMS-EACCME® in Brussels have granted 23 European CME credits (ECMEC).

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.

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.

Disclosures and conflicts of interest

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

Venue

Domotel Kastri Hotel and Conference Center

154 El. Venizelou Str. & Romilias, Athens 146 71
Athens, Greece
Phone +30 210 350 7100
Website <https://domotel.gr/kastri-athens>

General information

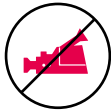
Evaluation guidelines

All AO Trauma events apply the same evaluation process, which includes pre- and post-event online evaluation and on-site written questionnaires. These evaluation tools help ensure that AO Trauma continues 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. For more information, please see: www.aofoundation.org/legal.

Recording, photographing, or copying lectures, practical exercises, case discussions, or any event materials is strictly forbidden. Participants violating intellectual property will be dismissed.



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 the AO's 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 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.

Use of mobile phones

Use of mobile phones is not permitted in the lecture halls or in other rooms during educational activities. Please be considerate of others by turning off your mobile phone.

Dress code

Casual

Hygiene guidelines for AO educational events

General protective measures must be observed throughout the event

- Routine cleaning and disinfection of frequently touched surfaces
- Face masks must be worn through the entire duration of the event
- Frequent hand hygiene (when entering and exiting rooms)
- Hand disinfectants must be provided at each door
- Physical distancing of min. 1.5 m between persons at AO events
- Respiratory etiquette (use masks, proper coughing etiquette, etc.)
- Visual reminders of proper measures and etiquette must be placed at doors

At practical-exercise stations

- Personal Protective Equipment (PPE) surgical face masks and non-sterile, latex-free examination gloves must be worn by all participants and faculty
- Surgical face masks and gloves must be stocked in sufficient numbers, and made available at the entrance of practical-exercise rooms
- All PPE must be disposed of after the end of the practical-exercise session in a dedicated place. New PPE must be used for subsequent sessions
- All instruments must be disinfected (sprayed) after the practical exercise is completed
- Participants re-use the same station for the full duration of the event
- If necessary, adapt the quantity of workstations per table to meet space requirements

Sponsor

We thank our major industry partner DePuy Synthes for providing an unrestricted educational grant for this event.



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).

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)
- ACCME Standards for Commercial Support: Standards to Ensure Independence in CME Activities (www.accme.org)
- Criteria for Accreditation of Live Educational Events of the European Accreditation Council for Continuing Medical Education (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)
- AdvaMed Code of Ethics on Interactions with Health Care Professionals (www.advamed.org)
- Mecomed Guidelines on Interactions with Healthcare Professionals (www.mecomed.com)

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 practical sessions

In case practical sessions are chosen as an educational method to educate skills, the technologies and products used have been approved or reviewed by the AO Technical Commission—a large independent group of volunteer surgeons developing and peer-reviewing new technology on behalf of the AO Foundation.

Any technology and/or products used in the practical sessions of this event have been found suitable to serve the defined educational purposes.

This does not imply any statement about its use and performance in actual clinical scenarios.

More information on the AO Technical Commission can be found on the AO's website: www.aofoundation.org/tc.

5. Personnel

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

Notes

Share your passion and join the **AO Trauma community**

Apply

for membership
www.aotrauma.org

Belong to a
unique orthopedic
trauma network



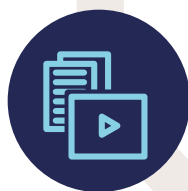
Get involved
and shape the
future of AO Trauma



**Global
network**



Discover the
exclusive AO Trauma
content



Develop
your personal and
professional career



Share and **exchange**
your knowledge



AO Trauma is the **leading global orthopedic trauma network** with a unique culture of surgeon leadership, camaraderie, volunteerism, and mutual respect.



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