

AO Trauma Course— Advanced Principles of Fracture Management

April 20–22, 2022

Seč, Czech Republic

PROGRAM



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trauma and
orthopedics

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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.

Welcome

Dear AO Trauma Course participant,

Welcome to the AO Trauma 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 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 course 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 course and benefit from the networking opportunities it provides for you to share experiences with your colleagues.



Mark Reilly
Chairperson
AO Trauma
Education Commission



Mike Baumgaertner
Chairperson
AO Trauma
International Board

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 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 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

Upon completion 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



Josef März

Karovy Vary Hospital, Karlovy Vary,
Czech Republic

Regional faculty

Alan Dostál

University Hospital Bratislava, Bratislava, Slovakia

Peter Jacko

Nemocnica akad. Déreera, UNB, Bratislava, Slovakia

National faculty

Jiří Skála-Rosenbaum	Faculty hospital Kralovske Vinohrady, Praha 10, Czech Republic
Karel Holub	Nemocnice české Budějovice, Ceske Budejovice, Czech Republic
Libor Paša	Medical Faculty, Masaryk Univerzity, Brno, Czech Republic
Martin Frank	University Hospital Hradec Kralove, Hradec Kralove, Czech Republic
Martin Kelbl	Trauma hospital Brno, Brno, Czech Republic
Martin Kloub	Hospital Ceske Budejovice, Ceske Budejovice, Czech Republic
Pavel Dousa	Faculty hospital Kralovske Vinohrady, Praha 10, Czech Republic
Petr Obruba	Masarykova hospital, Usti nad Labem, Czech Republic
Radek Bartoška	Faculty hospital Kralovske Vinohrady, Praha 10, Czech Republic
Roman Mišičko	Masaryk's Hospital, Usti nad Labem, Czech Republic
Vít Bába	Masaryk's Hospital, Usti nad Labem, Czech Republic

Guest Speakers

Jiri Demel	University hospital Ostrava, Ostrava, Czech Republic
Jiri Matějka	Charles University Hospital, Plzen, Czech Republic
Martin Carda	Regional hospital Pardubice, Pardubice, Czech Republic
Martin Krbec	University Hospital Kralovske Vinohrady, Prague, Czech Republic
Martin Krivohlavek	Regional Hospital of Liberec, Liberec, Czech Republic

Wednesday

April 20, 2022

Module 1

Moderator: P Obruba

Review of the principles

08:00–08:10	Welcome and introduction	J März, M Křivohlávek
08:10–08:20	Review of the principles of the fracture management	P Obruba
08:20–08:35	Tissue vitality and effect of injury	P Douša
08:35–08:50	MIO—Minimizing surgical footprints	L Paša
08:50–09:05	Clinical indications for locked and conventional plating	P Jacko
09:05–09:10	Summary	P Obruba
09:10–09:15	Location change to practical exercises	
09:15–10:15	Practical exercise 1 Reduction and temporary fixation - indications, tips and tricks	R Mišičko
10:15–10:35	Coffee break	
10:35–11:50	Small group discussion 1 Reduction, temporary fixation – concepts and application	
11:50–12:50	Lunch break	

Module 2

Moderator: M Kloub

Shoulder girdle

12:50–13:05	Fractures of the clavicle: when and how to operate—indications and methods of fixation	R Bartoška
13:05–13:15	Fractures of the scapula: indication for surgery and methods of fixation	J Matějka
13:15–13:30	Proximal humerus fractures—to fix, to replace, or treat nonoperatively?	M Kloub
13:30–13:45	Summary or case-based comment (with case)	M Kloub
13:45–13:50	Location change to small group discussion	

13:50–14:50	Practical exercise 2 Fixation of a proximal humeral fracture Part 1: Fixation of a four-fragment fracture in the proximal humerus using a proximal interlocking system (PHILOS) plate	M Křivohlávek
14:50–15:05	Coffee break	
15:05–16:05	Practical exercise 2 Part 2: Reconstruction of a three-part fracture in the proximal humerus using a MultiLoc proximal humeral nail	M Kloub

Module 3

Moderator: M Carda

Upper extremity

16:05–16:15	Complex humeral shaft fractures	M Frank
16:15–16:25	Distal humerus–intraarticular fractures and complications	L Paša
16:25–16:35	Fracture dislocation of the elbow	M Carda
16:35–16:50	Distal radial fractures	M Kelbl
16:50–17:10	Summary or case-based comment (with cases)	M Carda
17:10–17:15	Location change to small group discussion	
17:15–18:30	Small group discussion 2 Upper extremity fractures—decision making and methods of stabilization	

Thursday

April 21, 2022

08:00–09:30	Practical exercise 3 Fixation of a type 13-C1 fracture in the distal humerus using a locking compression plate (LCP)	M Kelbl
09:30–09:50	Coffee break	

Module 4

Moderator: P Douša

Femoral fractures

09:50–10:05	Femoral neck fractures—different patients; different problems	V Bába
10:05–10:20	Intertrochanteric fractures—treatment options and outcomes	K Holub
10:20–10:35	Current treatment and options of subtrochanteric fractures	P Douša
10:35–10:50	Epidemiology of proximal femoral fractures	J Skála-Rosenbaum
10:50–11:05	Distal femoral fractures—treatment options and outcomes	J Demel
11:05–11:25	Summary or case-based comment (with cases)	P Douša
11:25–11:30	Location change to practical exercise	
11:30–13:00	Practical exercise 4 Distal femur: fixation of an intraarticular type 33-C2.1 fracture using an LCP distal femoral plate	L Paša
13:00–14:00	Lunch break	
14:00–15:35	Small group discussion 3 Fracture of the femur	

Module 5

Moderator: L Paša

Tibial fractures

15:35–15:50	Complex tibial plateau fractures	P Jacko
15:50–16:05	Metadiaphyseal tibial fractures	M Křivohlávek
16:05–16:20	Early and definitive treatment of pilon fractures	J März
16:20–16:40	Summary or case-based comment (with cases)	L Paša
16:40–16:50	Coffee Break	
16:50–18:10	Practical exercise 5: Bicondylar tibial plateau fractures. Management of a type 41C3 bicondylar tibial plateau fracture using a VA-LCP proximal tibial plate	R Bartoška

Friday

April 22, 2022

08:00–09:10	Practical exercise 6 Management of a type 43-C3.2 pilon tibial fracture using an LCP distal tibia plate	K Holub
09:10–09:15	Location change to lecture hall	

Module 6

Moderator: P Obruba

Leg

09:15–09:25	Calcaneal fractures—predicting and avoiding problems	P Obruba
09:25–09:40	Talar, navicular and Lisfrank injuries	V Bába
09:40–09:50	Summary or case-based comment (with cases)	P Obruba
09:50–10:00	Coffee Break	
10:00–11:25	Small group discussion 4 Fractures of the tibia, ankle, and foot	
11:25–12:25	Lunch break	

Module 7

Moderator: J März

Pelvis

12:25–12:40	State of the art in the management of multiple-injured patients	M Frank
12:40–12:55	Evaluation and emergency management of pelvic ring injuries	J Matějka
12:55–13:15	Principles of pelvic ring and sacral fractures	J März
13:15–13:30	Principles of acetabular fracture management	K Kloub
13:30–13:45	Summary or case-based comment (with cases)	J März
13:45–13:55	Coffee Break	
13:55–14:55	Small group discussion Pelvic fractures	

Module 8

Moderator: J Skála-Rosenbaum

Complications

14:55–15:10	Mangled extremity - amputation contra reconstruction	R Mišičko
15:10–15:25	Infection after ORIF	R Bartoška
15:25–15:40	Fractures in osteoporotic bone	J Skála-Rosenbaum
15:40–15:55	Periprosthetic fractures	M Krbec
15:55–16:05	Summary	J Skála-Rosenbaum
16:05–16:15	Closing remarks	J März

Event information

Organization

AO Foundation

Jaroslava Horáková
Clavadelstrasse 8, 7270 Davos Platz,
Switzerland
E-Mail: jaroslava.horakova@aofoundation.org
Phone: +420 736 681 505

Participants' contact:

AO Global Events Services
E-mail aoges.emea@aofoundation.org
Phone: +41 79 816 73 09

Registration fee

Standard Ticket: CHF 725.00
Included in the registration fee are documentation, coffee break, lunch break and course certificate. Please note accommodation is not included.
Cancellation policy: 50% until 30 days before the event. No refund thereafter.

Online registration

<https://sforce.co/37bOLRI>

Language

Czech

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 and/or skills training if educationally necessary.

Venue

Hotel Jezerka

Ústupky 278,
Seč, Czech Republic
+420 469 676 327
<https://www.jezerka.cz>

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 Traumas continues to meet your training needs.

Disclosures and conflicts of interest

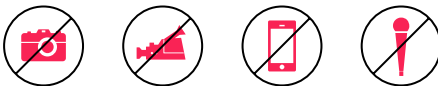
Disclosure information and potential conflicts of interest (COI) can be viewed at the event webpage.

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.

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 accident, 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.

Visa

Contact your hotel directly which will issue your visa and invoice you.

Dress code

Casual

Further Information

Any COVID-19 tests that are needed for travel etc. are at your own costs.

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 industry partner DePuy Synthes for providing in-kind support (logistics and material) 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.



Find your next learning activity



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AO Trauma



AO Spine



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AO VET



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Transforming
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Changing
Lives

www.aofoundation.org/our-courses-and-events/course-finder

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More information at
www.aofoundation.org



Share your passion and join the AO Trauma community

Belong to a unique orthopedic trauma network



Get involved and shape the future of AO Trauma



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.

