

# AO Trauma Course— Advanced Principles of Fracture Management

September 28–30,  
2022

Ruzomberok,  
Slovakia

PROGRAM



Home to  
trauma and  
orthopedics

# Mission

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

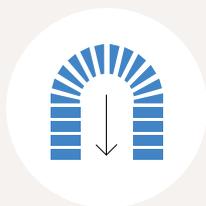
## The AO principles of fracture management

1



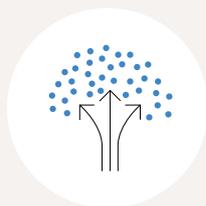
Fracture reduction and fixation to restore anatomical relationships.

2



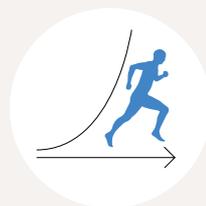
Fracture fixation providing absolute or relative stability, as required by the “personality” of the fracture, the patient, and the injury.

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 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](http://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.

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](http://www.aotrauma.org).

## Course description

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 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 Course—Advanced Principles of Fracture Management builds upon the AO principles and techniques learned in the AO Trauma Course—Basic Principles of Fracture Management 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 who are 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 them accordingly



# Chairperson



**Peter Kloc**  
FNsP J.A.Reimana,  
Presov, Slovakia

## Regional faculty

- |                       |   |
|-----------------------|---|
| <b>Martin Kloub,</b>  | Hospital Ceske Budejovice, Ceske Budejovice, Czech Republic           |
| <b>Roman Mišičko,</b> | Masaryk's Hospital, Usti and Labem, Czech Republic                    |
| <b>Theddy Slongo,</b> | University of Bern - Pediatric Children's hospital, Bern, Switzerland |

## National faculty

- |                         |  |
|-------------------------|--|
| <b>Rastislav Burda,</b> | University Hospital of L. Pasteur, Kosice, Slovakia                |
| <b>Peter Cibur,</b>     | University Hospital of L. Pasteur, Kosice, Slovakia                |
| <b>Alan Dostál,</b>     | University Hospital Bratislava, Bratislava, Slovakia               |
| <b>Radomír Gajdoš,</b>  | Faculty Hospital Banska Bystrica, Banská Bystrica, Slovakia        |
| <b>Martin Holas,</b>    | FNsP F.D.Roosevelta Banská Bystrica, Banská Bystrica, Slovakia     |
| <b>Yosef Naser</b>      | KO a TPU, Kosice, Slovakia   |
| <b>Peter Jacko,</b>     | Nemocnica akad. Déreza, UNB, Bratislava, Slovakia                  |
| <b>Miroslav Lisý,</b>   | University Hospital Bratislava, Bratislava, Slovakia               |
| <b>Istvan Mitro,</b>    | Hospital of L. Pasteur Kosice, Kosice, Slovakia                    |
| <b>Matin Paulo,</b>     | University Hospital of L. Pasteur, Kosice, Slovakia                |
| <b>Peter Simko,</b>     | Slovenská Zdravotnícka Universita Bratislava, Bratislava, Slovakia |

# Wednesday

September 28, 2022

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## Module 1

Moderator: P Kloc

### Review of the principles

08:00–08:10	Welcome and introduction	P Kloc, P Šimko
08:10–08:20	Review of the principles of the fracture management	P Šimko
08:20–08:35	Clinical indications for locked and conventional plating	R Burda
08:35–08:50	Tissue vitality and effect of injury	P Cibur
08:50–09:05	Principles of circular frame construction—equipment and terminology	T Slongo
09:05–09:10	Summary	
09:10–09:15	Location change to practical exercises	
09:15–10:15	<b>Practical exercise 1</b> <b>Circular frame - practical introduction, hands on, safe zones</b>	T Slongo
10:15–10:35	Coffee break	
10:35–11:50	<b>Small group discussion 1</b> <b>Reduction, temporary fixation – concepts and application</b>	
11:50–12:50	Lunch break	

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## Module 2

Moderator: P Cibur

### External fixation

12:50–13:05	Indications for Definitive and Temporary External Fixation	R Mišičko
13:05–13:20	Hexapod -new tool in postraumatic deformity correction	T Slongo
13:20–13:35	External frames- Technique of pin and wire insertion, what we have to consider/know?	T Slongo
13:35–13:45	Case-based summary	P Cibur
13:45–13:50	Location change to practical exercises	
13:50–14:50	<b>Practical exercise 2</b> <b>Fixation of a proximal humeral fracture</b> Part 1: Fixation of a four-fragment fracture in the proximal humerus.	M Lisý
14:50–15:05	Coffee break	
15:05–16:05	<b>Practical exercise 2</b> <b>Fixation of a proximal humeral fracture</b> Part 2: Reconstruction of a three-part fracture in the proximal humerus.	M Kloub

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## Module 3

Moderator: P Jacko

### Upper extremity

16:05–16:20	Proximal humerus fractures—to fix, to replace, or treat nonoperatively?	M Kloub
16:20–16:30	Distal humerus—intraarticular fractures and complications	P Jacko
16:30–16:40	Fracture dislocation of the elbow	Y Naser
16:40–16:55	Distal radial fractures	R Gajdoš
16:55–17:10	Summary or case-based comment (with cases)	M Holas
17:10–17:15	Location change to discussion rooms	
17:15–18:30	<b>Small group discussion 2</b> <b>Upper extremity fractures—decision making and methods of stabilization</b>	

# Thursday

September 29, 2022

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08:00–09:30	<b>Practical exercise 3</b> <b>Circular Frame Construction</b>	T Slongo, R Mišičko
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09:30–09:50	Coffee break	
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## Module 4

### Moderator: V Valkó

### Femoral fractures

09:50–10:05	Femoral neck fractures—different patients; different problems	A Dostál
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10:05–10:20	Intertrochanteric fractures—treatment options and outcomes	P Jacko
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10:20–10:35	Current treatment and options of subtrochanteric fractures	P Kloc
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10:35–10:50	Femoral shaft fractures—plating versus nailing	M Paulo
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10:50–11:05	Distal femoral fractures—treatment options and outcomes	I Mitró
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11:05–11:25	Case-based summary	A Dostál
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11:25–11:30	Location change to practical exercise	
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11:30–13:00	<b>Practical exercise 4</b> <b>Distal femur</b> Fixation of an intraarticular type 33-C2.1 fracture.	I Mitró
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13:00–14:00	Lunch break	
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14:00–15:30	<b>Small group discussion 3</b> <b>Fracture of the femur</b>	
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15:30–15:35	Location change to lecture room	
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## Module 5

### Moderator: Y Naser

### Tibial fractures

15:35–15:50	Proximal and distal tibial shaft fractures—reduction, fixation	Y Naser
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15:50–16:05	Complex tibial plateau fractures	M Hólas
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16:05–16:20	Early and definitive treatment of pilon fractures	M Paulo
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16:20–16:40	Case-based summary	I Mitró
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16:40–16:50	Coffee break	
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16:50–18:10	<b>Practical exercise 5</b> <b>Bicondylar tibial plateau fractures</b> Management of a type 41C3 bicondylar tibial plateau fracture.	Y Naser
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# Friday

September 30, 2022

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08:00–09:10	<b>Practical exercise 6</b> <b>Management of a type 43-C3.2 pilon tibial fracture.</b>	A Dostál
09:10–09:15	Location change to lecture hall	

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## **Module 6** **Moderator: R Mišičko** **Leg**

09:15–09:25	Calcaneal fractures—predicting and avoiding problems	M Paulo
09:25–09:40	Talar fractures - soft tissues and fracture fixation	I Mitró
09:40–09:50	Case-based summary	M Holas
09:50–10:00	Coffee break	
10:00–11:25	<b>Small group discussion 4</b> <b>Fractures of the tibia, ankle, and foot</b>	
11:25–12:25	Lunch break	

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## **Module 7** **Moderator: R Gajdoš** **Pelvis and Polytrauma**

12:25–12:40	State of the art in the management of multiple-injured patients	M Kloub
12:40–12:55	Evaluation and emergency management of pelvic ring injuries	R Gajdoš
12:55–13:10	Early total care (ETC)	R Burda
13:10–13:25	Damage Control Orthopedic (DCO)	P Jacko
13:25–13:40	Case-based summary	R Gajdoš
13:40–13:50	Coffee break	
13:50–14:50	<b>Small group discussion 5</b> <b>Pelvic fractures</b>	

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## **Module 8** **Moderator: R Burda** **Complications**

14:45–15:05	Mangled extremity - amputation contra reconstruction	R Burda
15:05–15:20	Fractures in osteoporotic bone	M Lisý
15:20–15:35	Infection after ORIF	P Cibur
15:35–15:50	Periprosthetic fractures	M Lisý
15:50–16:00	Summary and Closing remarks	P Kloc

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# Event information

## Organization

Jaroslava Horakova  
Clavadelerstrasse 8, 7270 Davos Platz, Switzerland  
E-mail: [jaroslava.horakova@aofoundation.org](mailto:jaroslava.horakova@aofoundation.org)  
Phone: +420 736 681 505

## Participants' contact:

E-mail: [aoges.emea@aofoundation.org](mailto:aoges.emea@aofoundation.org)

## Registration fee

Standard ticket: EUR 790  
Included in the registration fee are conference bag with documentation, coffee break, lunch break, and course certificate.  
Cancellation policy: 50% until 30 days before the event. No refund thereafter.

## Online registration

<https://sforce.co/3AW7CNI>

## Language

English

## European CME accreditation

An application has been made to the UEMS-EACCME® in Brussels for CME accreditation of this event.

## 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

## Hotel Kultúra

A. Bernoláka 1,  
034 01 Ružomberok,  
Slovakia  
Tel. +421 918 913 016  
E-mail: [recepacia@hotelkultura.sk](mailto:recepacia@hotelkultura.sk)  
Website: <https://hotelkultura.sk>

# 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.

## 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 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

## Sponsors

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



# Notes

# Notes

# 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 ([www.advamed.org](http://www.advamed.org))
- Mecomed Guidelines on Interactions with Healthcare Professionals ([www.mecomed.com](http://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.

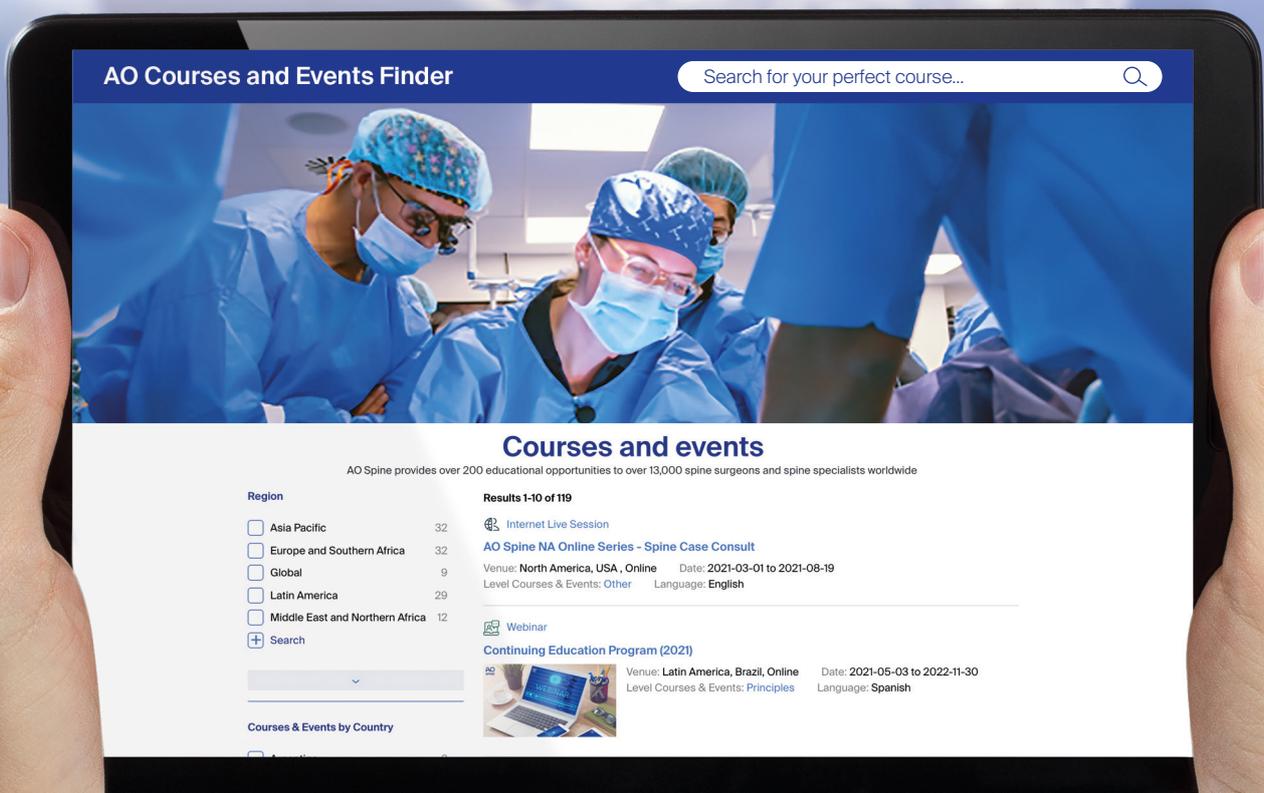
More information on the AO Technical Commission can be found on the AO's website: [www.aofoundation.org/tc](http://www.aofoundation.org/tc).

## 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



**Enhance your career, improve your knowledge, skills and network with the world's leading education provider to health care professionals working in the fields of trauma and musculoskeletal disorders.**

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AO Trauma



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AO Recon



AO VET



AO Sports



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Surgery—  
Changing  
Lives

[www.aofoundation.org/our-courses-and-events/course-finder](http://www.aofoundation.org/our-courses-and-events/course-finder)

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More information at  
[www.aofoundation.org](http://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.

