



### Event program

# AOTrauma Course – Advanced Principles of Fracture Management

September, 12–14, 2018 Ružomberok, Slovakia





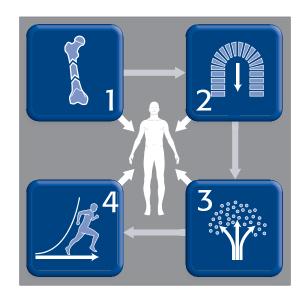
### Value statement

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

Fracture reduction and fixation to restore anatomical relationships.

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



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

Preservation of the blood supply to soft tissues and bone by gentle reduction techniques and careful handling. 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 250,000 surgeons and 135,000 ORP staff from over 110 countries have attended AO Courses—we now launch AOTrauma to move our education to the next level.

#### Content

- 2 Value statement
- 2 The AO principles
- **3** Welcome
- **3** Content
- 4 Goal of the course
- 4 Target participants
- 4 Learning objectives
- 4 Course description
- **5** Course chairs
- **5** Faculty
- 6 Day 1 Doctors
- 7 Day 2 Doctors
- 8 Day 3 Doctors
- 10 Day 1 ORP
- 11 Day 2 ORP
- 12 Day 3 ORP
- 14 Event organization
- 14 Event information and logistics
- 14 Event venue
- **15** General Information
- 16 Principles of AO Educational Events

### Welcome

### Dear AOTrauma course participant,

Welcome to the AOTrauma Course – Advanced 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.



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



**Kodi Kojima**Chairperson AOTrauma
International Boars

**PS:** 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 AOTrauma. The benefits of membership, including options to get involved in new opportunities that advance trauma care are described at **www.aotrauma.org**.



### Goal of the seminar

The AOTrauma Course – Advanced Principles of Fracture Management builds upon the AO principles and techniques learned in the AOTrauma Course – Basic Principles of Fracture Management and focuses on the principles and techniques of operative fracture management in more complex injuries.

### Target participants

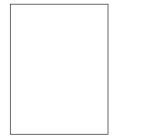
The AOTrauma Course — Advanced Principles of Fracture Management is targeted at surgeons who are at the threshold of becoming independent surgeons and taking over decision-making responsibility for the treatment of complex injuries. Participants must have already completed the AOTrauma Course — Basic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

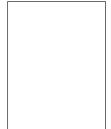
### Learning objectives

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 Jacko** Bratislava, Slovakia **Radomír Gajdoš** Banská Bystrica, Slovakia

### International Faculty

Amal Khoury Jerusalem Israel Ferenc Urban Miskolc Hungary

### National Faculty

Michal Slovakia Božik Bratislava Burda Rastislav Slovakia Košice Slovakia Cibur Peter Košice Dostál Alan Bratislava Slovakia Dráč Pavel Olomouc Czech Republic Valer Czech Republic Džupa Prague Kloc Peter Prešov Slovakia Kloub Martin České Budějovice Czech Republic Lubomir Ústí nad Labem Czech Republic Корр Miroslav Bratislava Slovakia Lisý Košice Slovakia Mitro Istvan Bratislava Murárik Stefan Slovakia Paša Libor Brno Czech Republic

Bratislava

Trnava

Banská Bystrica

Slovakia

Slovakia

Slovakia

TABLE INSTRUCTOR:

Peter

Martin

Vojtech

Holas Martin Banská Bystrica Slovakia

COACH:

Šimko

Tutka

Vaľko

Gajdoš Radomír Banská Bystrica Slovakia



### Day 1, Wednesday, September 12, 2018

TIME	AGENDA ITEM	WHO
8.00 – 8.15	Welcome and introduction	Jacko, Gajdoš
	Modul 1 – Modern aplication of AO principles	
8.15 - 8.30	Tissue vitality and effect of injury	Cibur
8.30 - 8.45	MIO – Minimizing surgical footprints	Burda
8.45 – 9.00	Clinical indications for locked plating	Khoury
9.00 – 9.15	Violation of principles	Šimko
9.15 – 9.25	LOCATION CHANGE TO SMALL GROUP DISCUSSIONS	
9.25 – 10.35	Small group discussions 1: Reduction techniques – concepts and application	
10.35 – 10.55	COFFEE BREAK	
	Modul 2 – Fractures around the shoulder	
10.55 – 11.10	Fractures of the clavicle: when and how to operate – indications and methods of fixation	Tutka
11.10 – 11.25	Fractures of the scapula: indication for surgery and methods of fixation	Gajdoš
11.25 – 11.40	Floating shoulder – what I have to fix?	Kloub
11.40 – 11.55	Proximal humerus fractures – to fix, to replace, or treat nonoperatively?	Urbán
11.55 – 13.30	LUNCH BREAK	
13.30 – 15.00	Practical exercise 1: Fixation of a proximal humeral 4- fragment fracture using PHILOS	Burda
15.00 – 15.20	COFFEE BREAK	
	Modul 3 – Upper extremity fractures	
15.20 – 15.35	Fractures/injuries to the fingers – diagnostics and how to treat	Khoury
15.35 – 15.50	Tendon injuries – diagnostics and how to treat	Jacko
15.50 – 16.05	Neurovascular injuries – diagnostics, how and when do we need to treat	Urbán
16.05 – 16.20	Rehabilitation after injuries	Dráč

16.30 – 17.10	Small group discussion 2: Upper extremity fractures – decision making and methods of stabilization	
16.20 – 16.30	LOCATION CHANGE TO SMALL GROUP DISCUSSIONS	
TIME	AGENDA ITEM	WHO

### Day 2, Thursday, September 13, 2018

TIME	AGENDA ITEM	WHO
8.00 – 9.30	Practical exercise 2: Fixation of a type 13-C1 fracture in the distal humerus using a locking compression plate (LCP)	Jacko
9.30 – 9.50	COFFEE BREAK	
	Modul 4 – Modern aplication of AO principles	
9.50 - 10.05	Femoral neck fractures – different patients; different problems	Dostál
10.05 - 10.20	Intertrochanteric fractures – treatment options and outcomes	Džupa
10.20 - 10.35	Current treatment and options of subtrochanteric fractures	Valkó
10.35 – 10.50	Distal femoral fractures – treatment options and outcomes	Urbán
10.50 – 11.00	LOCATION CHANGE TO PRACTICAL EXERCISES	
11.00 – 12.30	Practical exercise 3: Distal femur: fi xation of an intraarticular type 33-C2.1 fracture using an LCP distal femoral plate or the LISS system	Dostál
12.30 – 14.00	LUNCH BREAK	
14.00 – 15.30	Small group discussion 3: Fracture of the femur	
15.30 – 15.40	LOCATION CHANGE TO LECTURES	
	Modul 5 - Fractures around the shoulder	
15.40 – 15.55	Complex tibial plateau fractures	Mitró
15.55 – 16.10	Diaphyseal tibial fractures	Paša
16.10 – 16.25	Early and definitive treatment of pilon fractures	Kľoc
16.25 – 16.400	Complex malleolar fractures	Murárik



TIME	AGENDA ITEM	WHO
16.40 – 17.00	COFFEE BREAK	
16.30 – 17.10	Practical exercise 4: Management of a type 41-C3 bicondylar tibial plateau fracture using an LCP Practical exercise	Mitró
20.00	Course dinner	

### Day 3, Friday, September 14, 2018

TIME	AGENDA ITEM	WHO
8.00 – 9.30	Practical exercise 5: Management of a type 43-C3.2 pilon tibial fracture using an LCP distal tibia plate)	Tutka
9.30 – 9.40	LOCATION CHANGE TO LECTURES	
	Modul 6 – Foot injuries	
9.40 – 9.55	Calcaneal fractures – predicting and avoiding problems	Корр
9.55 – 10.10	Talar fractures	Корр
10.10 - 10.25	Navicular and Lisfranc injuries and complications	Dostál
10.25 – 10.45	COFFEE BREAK	
10.45 – 12.15	Small group discussion 4: Fractures of the tibia, ankle, and f	oot
12.15 – 13.30	LUNCH BREAK	
	Modul 7 – Polytrauma, pelvic and acetabular fractures	
13.30 – 13.45	State of the art in the management of multiple-injured patients	Khoury
13.45 – 14.00	Evaluation and emergency management of pelvic ring injuries	Khoury
14.00 – 14.15	Principles of acetabular fracture management	Božík
14.15 – 14.30	Fractures of the sacrum	Božík
14.30 – 14.50	COFFEE BREAK	
14.50 – 16.00	Small group discussion 5: Pelvic fractures	
16.00 – 16.10	LOCATION CHANGE TO LECTURES	

TIME	AGENDA ITEM	WHO	
	Modul 8 – Controversies and complications		
16.10 – 16.25	Mangled extremity - amputation contra reconstruction	Burda	
16.25 – 16.40	Infection after ORIF	Cibur	
16.40 – 16.55	Periprosthetic fractures	Lisý	
16.55 – 17.05	CLOSING REMARKS		



### Day 1, Wednesday, September 12, 2018

TIME	AGENDA ITEM	WHO
8.00 – 8.10	Privítanie a úvodné poznámky	Gajdoš
8.10 – 8.15	PRESUN DO PREDNÁŠKOVEJ SÁLY	
8.15 – 8.30	Svet AO – od histórie až k celoživotnému vzdelávaniu	Šimko
8.30 – 9.00	Ako sa pozerať na rtg snímky	Gajdoš
9.00 – 9.15	Čo sú rtg lúče – charakteristika a riziká	Ondrušková
9.15 – 9.35	Prehľad princípov osteosyntézy	Dráč
9.35 – 9.55	Repozičné techniky	Tutka
9.55 – 10.15	COFFEE BREAK	
10.15 – 10.35	Polytraumatizovaný pacient	Gajdoš
10.35 – 10.55	Princípy vnútrodreňového klincovania – prehľad	Džupa
10.55 – 11.15	Osteosyntézy intraartikulárnych zlomenín	Lisý
11.15 – 11.20	PRESUN NA CVIČENIA	
11.20 – 12.30	Praktické cvičenie 1 – Stabilizácia panvového kruhu vonkajším fixátorom	Lisý, Ondrušková
12.30 – 13.30	LUNCH BREAK	
13.30 – 14.30	Diskusie v skupinách 1 – Polytraumatizovaný pacient – stanovenie priorít	Surg + ORP
14.30 – 14.40	PRESUN DO PREDNÁŠKOVEJ SÁLY	
14.40 – 14.55	Bezpečnosť pacienta	Mihóková
14.55 – 15.10	Sterilita nástrojov a implantátov	Lisá
15.10 – 15.25	Rúškovanie operačného poľa	Fašková
15.25 – 15.40	Zlomeniny proximálneho humeru	Vaľko
15.40 – 16.00	COFFEE BREAK	

TIME	AGENDA ITEM	WHO
16.00 – 17.00	Praktické cvičenia 2 – Intramedulárne klincovanie femoru s predvŕtaním	Murárik. Lisá
17.00 – 17.10	PRESUN DO PREDNÁŠKOVEJ SÁLY	
17.10 – 17.30	Zlomeniny diafýz kostí predlaktia – inštrumentárium, implantáty, polohovanie a operačná technika	Lisá
17.30 – 17.45	Čo sme sa naučili & poznámky	Kloub
17.45	KONIEC 1. DŇA	Gajdoš

### Day 2, Thursday, September 13, 2018

TIME	AGENDA ITEM	WHO
8.15 – 8.30	Rekapitulácia predchádzajúceho dňa	Gajdoš
8.30 - 8.50	Prečo sú geriatrickí pacienti iní?	Mitró
8.50 - 9.10	Osteosyntéza periprotetických zlomenín	Dostál
9.10- 9.30	Endoprotézy pri akútnej traume	Murárik
9.30 – 9.40	PRESUN NA DISKUSIE V SKUPINÁCH	
9.40 – 10.40	Praktické cvičenie 3: Vnútorná fixácia zlomeniny proximálneho humeru Philos dlahou	Tutka, Mihóková
10.40 - 11.00	COFFEE BREAK	
11.00 – 12.00	Diskusie v skupinách 2: Pacient so zlomeninou stehennej kosti	Surg + ORP
12.00 – 13.20	LUNCH BREAK	
13.20 – 13.40	Zlomeniny proximálneho femuru – možnosti osteosyntézy v rôznych vekových skupinách inštrumentárium, implantáty,polohovanie a operačná technika	Džupa
13.40 – 13.55	Zlomeniny v oblasti kolena I. Distálny femur – inštrumentárium, implantáty,polohovanie a operačná technika	Kľoc
13.55 – 14.10	Zlomeniny v oblasti kolena II. Proximálna tibia – inštrumentárium, implantáty,polohovanie a operačná technika	Paša

AO Compotency Pacad
Competency-Based Curriculum

TIME	AGENDA ITEM	WHO
14.10 – 14.25	Zlomeniny v oblasti distálnej tibie – inštrumentárium, implantáty, polohovanie a operačná technika	Корр
14.25 – 14.40	PRESUN NA CVIČENIA	
14.40 – 15.40	Praktické cvičenie 4: Vnútorná fixácia zlomeniny diafýz predlaktia	Kloub
15.40 – 16.00	COFFEE BREAK	
16.00 – 17.00	Diskusie v skupinách 3: Perioperčná príprava osteosynté zlomenín diafýz kostí predlaktia	Surg + ORP
17.00 – 17.10	Presun do prednáškovej sály	
17.10 – 17.25	Čo sme sa naučili & poznámky	Gajdoš
17.25	KONIEC 2. DŇA	

### Day 3, Friday, September 14, 2018

TIME	AGENDA ITEM	WHO
8.30 – 8.45	Rekapitulácia predchádzajúceho dňa	Gajdoš
8.46 – 9.00	Luxačné zlomeniny lakťa	Jacko
9.00 – 9.15	Zápästie: pokročilé dlahovanie a technika zavádzania skrutiek	Dráč
9.15 – 9.30	Otvorené zlomeniny – špecifiká managementu na operačnej sále	Paša
9.30 – 9.45	COFFEE BREAK	
9.45 – 10.45	Praktické cvičenie 5: Fixácia zlomeniny distálneho rádia	Vaľko
10.45 – 11.05	Pakĺby – príčiny a princípy liečby	Božík
11.05 – 11.20	Infekcia po osteosyntéze - ako ju diagnostikovať a liečiť	Cibur
11.20 – 11.35	Komunikácia a tímová práca na operačnom sále	Helmová
11.35 – 12.35	LUNCH BREAK	

TIME	AGENDA ITEM	WHO
12.35 – 13.35	Small group discussion 4: Various fractures - nonunions, pelvis, periprosthetic fractures	Surg + ORP
13.35 – 14.05	Čo sme sa naučili & poznámky	Galdoš
14.05 – 14.20	Záverečné poznámky a odovzdanie certifikátov	Gajdoš
14.20	KONIEC 3. DŇA	



### Event organization

#### **AOTrauma Europe**

#### **George Clay**

Davos, Switzerland T: +41 81 414 27 25 Fax: +41 81 414 22 84 Email: gclay@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 information and logistics

#### **AO Courses Central Eastern Europe countries**

Jarka Horáková Phone +420 736 681 505 Email horakova.jarka@ao-courses.com

#### **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 (Letter of Secondment, AO Foundation – Principles of AO Educational Events) to ensure that this cooperation has no impact on the curricula, scientific program, or faculty selection.

#### Event venue

#### **Hotel Kultúra**

A. Bernoláka 1, 034 01 Ružomberok Slovenská republika T: +421 44 431 3111 M: +421 918 913 016

### General information

#### **Course fee**

AOTrauma Course—Advanced Principles of Fracture Management: EUR 75.00

Included in the event fee are conference bag with documentation, coffee breaks, cocktail reception, course certificate.

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.

#### **Course certificate**

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

#### **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.

#### **Conflicts of Interest (COI)**

All disclosure information can be viewed at the event webpage: .....

#### No insurance

The event organization does not take out insurance to cover any individual against accidents, theft, or other risks.

#### **Evaluation guidelines**

All AOTrauma events apply the same evaluation process, online (pre- and post-event evaluation). This helps AOTrauma to ensure that we continue to meet your training needs.

#### 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.

#### **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.

#### **Transportation**

Not provided for participants

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

#### **Dress code**

Casual











### AO Foundation – 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 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).

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, USA (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 (advamed.org)
- Mecomed Guidelines on Interactions with Healthcare Professionals (www.mecomed.org)

#### 3) Branding and advertising

No industry logos or advertising (with the exception of the AO Foundation and AO Clinical Division) 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

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 AOTK, its development and approval process can be found on the AO Foundation website: www.aofoundation.org).

#### 5) Personnel

Industry staff is not allowed to interfere with the educational content or engage in educational activities during the event.

### Upcoming events

8 - 9 November 2018	AOTrauma Master Course – Lower Extremity	Mikulov, Czech Republic
11 December 2018	AOTrauma Symposium	Prague, Czech Republic

For more information visit www.aotrauma.org



### Notes

### Notes



# Driving excellence and empowering the next generation

### AOTrauma 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



## Join us and share your passion