

AOTrauma Course—Basic Principles of Fracture Management

October 11-13, 2018 Ovifat, Belgium



Home to Trauma & Orthopaedics

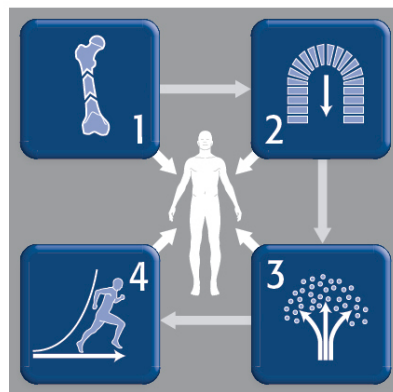
Value statement

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.

Welcome

Dear AOTrauma course participant,

Welcome to the AOTrauma Course—Basic 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.



Wa'el Taha
Chairperson AOTrauma
Education Commission



Kodi Kojima
Chairperson AOTrauma
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 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 course

The AOTrauma Course—Basic Principles of Fracture Management teaches fundamental principles and current concepts in the treatment of injuries, incorporating the latest techniques in operative fracture management. The AOTrauma Basic Principles course is the initial step along the path of lifelong learning in the area of operative fracture management. This course mainly focuses on the basic principles of fracture management.

Target participants

The AOTrauma Course—Basic Principles of Fracture Management is targeted at physicians in surgical training but is also open to anyone else who is interested in furthering their knowledge and skills in operative fracture management.

Learning objectives

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

- Discuss the concepts of stability, their influence on bone healing, and how to apply implants to achieve appropriate stability
- Plan a treatment based on assessment, imaging, classification, and decision making
- Apply reduction techniques in fracture management with attention to the importance of the soft tissues
- Treat diaphyseal and simple (peri)articular fractures using different application techniques
- Evaluate and recognize the special problems related to fractures in the immature skeleton, pelvic injuries, osteoporotic fractures, postoperative infection, delayed union and/or nonunion
- Plan the initial treatment of the polytraumatized patient

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. Before attending the course, participants are expected to complete online modules on bone healing and classification.

The course contains several evidence-based lectures, which cover the key information required. The AO Skills Lab engages participants in hands-on learning of basic principles and practical know-how needed for live surgery. With experiences such as proper tightening of a screw and feeling the difference between drilling with sharp and blunt drill bits, participants gain important surgical skills and learn about basic biomechanical concepts in a safe, instructive environment. In practical exercises participants will be trained in the application of fixation techniques. Discussing cases in small groups helps participants to understand decision-making and management skills.

After the course, an online postcourse self-assessment provides participants an opportunity to review the important topics from the course.

Chairperson



Torsten Gerich
Luxemburg

Co-chairperson



Ionut Caracudovici
Brussels, Belgium

National Faculty

Patrick Clayson, Ottignies, Belgium
Wim De Weerd, Sint Truiden, Belgium
Heinz Hulsmans, Antwerpen, Belgium
Pierre Maldague, Brussels, Belgium
Dan Putineanu, Brussels, Belgium
Guy Putzeys, Kortrijk, Belgium
Maïke Reul, Brussels, Belgium
Piet Reynders, Brussels, Belgium
Thomas Schubert, Brussels, Belgium
Filip Simion, Brussels, Belgium
Codrut Valcu, Liège, Belgium
Wim Vandesande, Geel, Belgium

Day 1 : October 11, 2018

As of 09:00	Registration	
09:30 - 09:40	Opening remarks & Introduction	T. Gerich
09:40 - 09:55	History of AO	G. Putzeys
09:55 - 10:15	Classification and management of open fractures	W. Vandesande
10:15 - 10:35	Classification of soft tissue damage, compartment and syndrome management	D. Putineanu
10:35 - 10:55	Diaphyseal fractures	G. Putzeys
10:50 - 11:15	Achieving stability – Plate & screw techniques	M. Reul
11:15 - 11:20	Introduction to Skill Lab	T. Gerich
11:30 - 12:30	PRACTICAL 1 - AO SKILLS LAB – Round 1	
	Station A : Optimal Torque	T. Schubert
	Station B : Soft Tissue Damage/Drilling	M. Reul
	Station C : Screwing/Heating	F. Simion
	Station D : Mechanics of Bone Fracture	W. Vandesande
	Station E : Fracture Repair	A. Valcu
12:30 - 13:20	Lunch	
13:30 - 14:30	PRACTICAL 1 - AO SKILLS LAB – Round 2	
	Station F : Reposition techniques	G. Putzeys
	Station G : Mechanical Principles of IMN	W. De Weerd
	Station H : Mechanical of Plating 1	D. Putineanu
	Station I : Mechanical Principles of Plating 2	H. Hulsmans
	Station J : Difficult Implant Removal	I. Caracudovici
14:40 - 15:40	DISCUSSION 1 : Fracture healing and soft tissue damage	
	Group 1 : I. Caracudovici – W. De Weerd	
	Group 2 : D. Putineanu – H. Hulsmans	
	Group 3 : G. Putzeys- F. Simion	
	Group 4 : M. Reul - A. Valcu	
15:40 - 16:00	Coffeebreak	
16:00 - 17:00	PRACTICAL 2 : Internal Fixation with screws & plates - absolute stability	P. Reynders
17:00 - 17:20	Emergency management of pelvis fractures and pelvic binder demo	G. Putzeys
17:20 - 17:40	Polytrauma & damagecontrol orthopaedics	A. Valcu
17:40 - 17:45	End of Day 1 : Closing session	
19:30	State of the art lecture & Dinner	

Day 2 : October 12, 2018

08:30 - 08:50	Relative Stability – External Fixators	W. De Weerdt
08:55 – 9:55	PRACTICAL 3 : External fixator in DCO surgery of floating knee surgery	I. Caracudovici
10:00 - 10:20	Relative stability – Intramedullary techniques	F. Simion
10:20 – 10:40	Coffee break	
10:40 - 11:40	PRACTICAL 4 : Tibial shaft fractures – IM Nailing	W. De Weerdt
11:45 - 12:45	DISCUSSION 2 : Diaphyseal Fractures Group 1 : W. Vandesande – T. Schubert Group 2 : P. Reynders – A. Valcu Group 3 : I. Caracudovici – G. Putzeys Group 4 : D. Putineanu – M. Reul	
12:45 – 13:45	Lunch	
13:45 – 14:05	Intertrochanteric fractures and femoral neck	P. Clayson
14:15 - 15:15	PRACTICAL 5 : Management of a trochanteric fracture	T. Schubert
15:15 - 15:35	Coffeebreak	
15:40 - 16:00	Fractures of the ankle	D. Putineanu
16:10 – 17:00	PRACTICAL 6 : Tension band wiring of the olecranon	M. Reul
17:00 – 18:00	DISCUSSION 3 : Articular Fractures Group 1: G. Putzeys – T. Schubert Group 2 : H. Hulsmans – F. Simion Group 3 : P. Reynders – W. Vandesande Group 4 : D. Putineanu – W. De Weerdt	
18:00	End of Day 2 : Closing session	
19:30	State of the art lecture & Dinner	

Day 3 : October 13,2018

08:30 - 09:40	PRACTICAL 7 : Principles of the internal fixator	F. Simion
09:45 - 10:05	Fractures of the wrist	W. Vandesande
10:05 - 10:25	Fractures of the forearm	H. Hulsmans
10:30 – 11:30	PRACTICAL 8 – Round 1 Preoperative planning – plan your operation - forearm fracture	P. Reynders
11:30 – 11:45	Coffeebreak	
11:45 – 12:45	PRACTICAL 8 – Round 2 Operate your plan : Radius & Ulna	P. Reynders
12:45 - 13:30	Lunch	
13:30 - 14:30	PRACTICAL 9 : Management of a type 44C malleolar fracture	C. Valcu
14:35 - 14:50	AO, what we have learned so far	G. Putzeys
14:50 - 15:00	Closing of the course	

Event organization

AOTrauma Belgium-Luxemburg

Kristin Beeckman

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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

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

Domaine des Hautes Fagnes

Rue des Charmilles 67

B - 4950 Ovifat

Tel +32 (0) 80 44 69 87

Fax +32 (0) 80 44 69 19

www.dhf.be



General information

Course fee

AOTrauma Course—Basic Principles of Fracture Management: 1050 €

Included in the course fee are documentation, coffee breaks, lunches, dinners, course certificate

Evaluation guidelines

All AOTrauma events apply the same evaluation process, either online (pre- and post-event evaluation) or/and on-site by audience response system (ARS) or paper and pencil questionnaires. This helps AOTrauma to ensure that we continue 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. Check hazards and legal restrictions on www.aofoundation.org/legal.

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



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.

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.

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.

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.



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



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