


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

November 21-23, 2020

Taichung, Taiwan

EVENT 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.

## Purpose statement

AO Trauma 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.

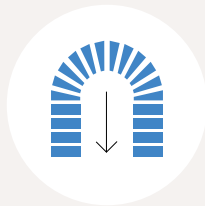
## The AO principles of fracture management

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,

We are honored to welcome you to the AO Trauma Course—Advanced Principles of Fracture Management. We hope you will enjoy your course and the entire experience.

**What is AO Trauma?** We are a “clinical division”—a community for trauma and orthopedics within the AO Foundation. As a clinical division we aim to integrate and align applied and clinical research, education, and community development functions into one direction—AO Trauma for the benefit of our members, stakeholders, and patients.

**How can AO Trauma benefit you?** By working as a single team we focus and leverage our resources, expertise, and skills to create and deliver new and greater value to our members.

**What does this mean in education?** AO Trauma is committed to providing you the best possible educational experience by continuously embracing and introducing new educational techniques to help you learn and more effectively implement your knowledge for the benefit of your patients.

**Why join AO Trauma?** Joining AO Trauma means you are part of the trauma and orthopedic community within the AO. AO Trauma will help you develop lifelong friendships and relationships. We will help you access our “knowledge network” and take part in new opportunities that advance trauma care.

Yours sincerely,



**Wa'el Taha**  
Chairperson AO Trauma  
Education Commission



**Michael 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. Before attending the course, participants are expected to complete an online module on fracture reduction.

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. In order 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

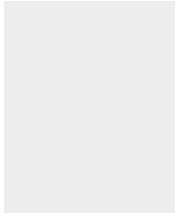
The AO Trauma Course—Advanced Principles of Fracture Management is targeted at surgeons who are at the threshold of becoming independent surgeons and taking over decision-making responsibility for the treatment of complex injuries. Participants must have already completed the AO Trauma Course—Basic Principles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



**Chih-Hui Chen**

Taichung Veterans General Hospital,  
Taiwan

# Local Faculty

<b>Chang-Han Chuang</b>	Show Chwan Memorial Hospital	Taiwan
<b>Chao-Ching Chiang</b>	Taipei Veterans General Hospital	Taiwan
<b>Chen-Yuan Yang</b>	Kuang Tien General Hospital	Taiwan
<b>Chiang-Sang Chen</b>	Far Eastern Memorial Hospital	Taiwan
<b>Chien-Chih Chen</b>	Kaohsiung Medical University Hospital	Taiwan
<b>Chih-Hui Chen</b>	Taichung Veterans General Hospital	Taiwan
<b>Chin-Jung Hsu</b>	China Medical University Hospital	Taiwan
<b>Jni-Ming Yang</b>	Madou Sin-Lau Hospital	Taiwan
<b>Kai-Cheng Lin</b>	Kaohsiung Veterans General Hospital	Taiwan
<b>Kun-Tsan Lee</b>	Taichung Veterans General Hospital	Taiwan
<b>Pei-Yuan Lee</b>	Show Chwan Memorial Hospital	Taiwan
<b>Tien-Yu Yang</b>	Chiayi Chang Gung Memorial Hospital	Taiwan
<b>Tsan-Wen Huang</b>	Chiayi Chang Gang Memorial Hospital	Taiwan
<b>Yan-Yu Chen</b>	Show Chwan Memorial Hospital	Taiwan
<b>Yi-Hsun Yu</b>	Linkou Chang Gung Memorial Hospital	Taiwan
<b>Yih-Wen Tarnq</b>	Kaohsiung Veterans General Hospital	Taiwan
<b>Ying-Chao Chou</b>	Linkou Chang Gung Memorial Hospital	Taiwan
<b>Yung-Heng Hsu</b>	Linkou Chang Gung Memorial Hospital	Taiwan

# Table Instructor

<b>Chang-Han Chuang</b>	Show Chwan Memorial Hospital	Taiwan
<b>Chen-Yuan Yang</b>	Kuang Tien General Hospital	Taiwan
<b>Chiang-Sang Chen</b>	Far Eastern Memorial Hospital	Taiwan
<b>Chien-Chih Chen</b>	Kaohsiung Medical University Hospital	Taiwan
<b>Jni-Ming Yang</b>	Madou Sin-Lau Hospital	Taiwan
<b>Kai-Cheng Lin</b>	Kaohsiung Veterans General Hospital	Taiwan
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<b>Yung-Heng Hsu</b>	Linkou Chang Gung Memorial Hospital	Taiwan

# Saturday

November 21, 2020

09:30–09:40	Welcome and introduction	PY Lee
<b>Module 1</b> <b>Review of the principles and new techniques</b>		
09:40–09:55	Review of the principles of fracture management	PY Lee
09:55–10:10	Clinical applications for locked plating	CH Chen
10:10–10:30	COFFEE BREAK	
10:30–11:50	<b>Small group discussion 1</b> Reduction techniques—concept and application	Group 1 : KC Lin, YW Tarng Group 2 : PT Wu, CS Chen Group 3 : YH Hsu, YH Yu
<b>Module 2</b> <b>Injuries of the upper limb</b>		
11:50–12:05	Proximal humeral fractures—to fix, replace, or treat nonoperatively?	CH Chen
12:05–12:20	Distal humerus – intra-articular fractures and complications	CJ Hsu
12:20–12:35	Distal radial fractures	YW Tarng
12:35–12:50	Fractures of the clavicle: when and how to operate—indications and methods of fixation	YW Tarng
12:50–13:05	Fracture dislocation of the elbow	PT Wu
13:05–14:05	LUNCH BREAK	
14:05–15:25	<b>Practical exercise 1</b> Fixation of a proximal humeral fracture	Moderator: YW Tarng Table A : LW Hung Table B : PT Wu Table C : CH Chuang Table D : CS Chen Table E : CC Lin Table F : YH Hsu Table G : TW Huang Table H : TY Yang
15:25–16:40	<b>Small group discussion 2</b> Upper extremity fractures—decision-making and methods of stabilization	Group 1 : KC Lin, YW Tarng Group 2 : PT Wu, CS Chen Group 3 : YH Hsu, YH Yu
16:40–17:00	COFFEE BREAK	
<b>Module 3</b> <b>Injuries of the lower limb</b>		
17:00–17:15	Femoral neck fractures—different patients, different problems	CS Chen
17:15–17:30	Intertrochanteric fractures—treatment options and outcomes	CJ Hsu
17:30	END OF DAY 1	



# Sunday

November 22, 2020

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## Module 4 Injuries of the lower limb

08:00-08:15	Current treatment options of subtrochanteric fractures	CC Chen
08:15-08:30	Distal femoral fractures—treatment options and outcomes	CJ Hsu
09:00-10:30	<b>Practical exercise 2</b> Fixation of a distal femoral fracture	Moderator : CJ Hsu Table A : LW Hung Table B : PT Wu Table C : CH Chuang Table D : CS Chen Table E : CC Lin Table F : KC Lin Table G : TW Huang Table H : YY Chen
10:30-10:50	COFFEE BREAK	
10:50-12:20	<b>Small group discussion 3</b> Fractures of the femur	Group 1 : YY Chen, CH Chuang Group 2 : PT Wu, CS Chen Group 3 : CC Chen, KC Lin
12:20-12:35	Complex tibial plateau fractures	KC Lin
12:35-12:50	Early and definitive treatment of pilon fractures	YY Chen
12:50-13:05	Calcaneal fractures—predicting and avoiding problems	CC Chiang
13:05-14:05	LUNCH BREAK	
14:05-15:25	<b>Practical exercise 3</b> Bicondylar tibial plateau fractures	Moderator: KC Lin Table A : LW Hung Table B : PT Wu Table C : CH Chuang Table D : CS Chen Table E : CC Lin Table F : YH Hsu Table G : TW Huang Table H : YY Chen
15:25-15:45	COFFEE BREAK	
15:45-17:00	<b>Small group discussion 4</b> Fractures of the tibia, ankle, and foot	Group 1 : KC Lin, YH Yu Group 2 : CH Chuang, PT Wu Group 3 : YH Hsu, YH Yu
17:00-18:30	<b>Practical exercise 4</b> Management of distal tibial fractures	Moderator : CH Chuang Table A : LW Hung Table B : PT Wu Table C : KC Lin Table D : CS Chen Table E : CC Lin Table F : YH Hsu Table G : TW Huang Table H : YY Chen
18:30	END OF DAY 2	

# Monday

November 23, 2020

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## Module 5 Polytrauma, pelvis, and acetabulum

09:00-09:15	Evaluation and emergency management of pelvic ring injuries	YH Yu
09:15-09:30	Management of multiple-injured patients (ETC/DCO/EAC)	YH Yu
09:30-09:45	Principles of acetabular fracture management	KT Lee
09:45-09:55	ORIF of the posterior wall—surgical approach	CH Chuang
09:55-10:15	COFFEE BREAK	

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## Module 6 Special situations and problems

10:15-10:30	Mangled extremity management	CY Yang
10:30-10:45	Management of malunion	YC Chou
10:45-11:00	Periprosthetic fractures	CH Chen
11:00-11:15	Bone grafts and bone graft substitutes to promote fracture union—options and outcomes	CH Chuang
11:15-11:25	Closing remarks	
11:25	END OF THE COURSE	

# Event organization

## **AO Trauma Asia Pacific**

AO Asia-Pacific Limited  
Unit 1310-11, Tower 1, Millennium City 1,  
388 Kwong Tong Road,  
Kowloon, Hong Kong  
Phone +852 2581 1775  
Fax +852 2581 1772  
Email aotap@aotrauma.org

## **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.

# Course logistics

## **AO Courses Taiwan**

Boris Huang  
Phone +886 0963-608683  
Email BHUANG10@ITS.JNJ.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.

# Course venue

## **Nan Shan Education & Training Center**

No. 300, Chenggong W. Rd., Wuri Dist., Taichung City,  
Taiwan  
Tel: 04-2334-1800  
Fax: 886-4-2398-300

# Event information

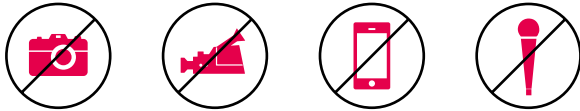
## Evaluation guidelines

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](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

Security checks will be conducted at the building entrance. Wearing a name tag is compulsory at all times in the congress center and hospital.

## 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 except that it is used for evaluation. Please be considerate of others by turning off your mobile phone.

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

## 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 simulations

In case simulations are chosen as an educational method to educate skills, we only use technology approved by the AO Technical Commission—a large independent group of volunteer surgeons developing and peer reviewing new technology.

More information about the AO Technical Commission and its development and approval processes can be found on the AO's website: [www.aofoundation.org](http://www.aofoundation.org).

## 5. Personnel

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

# Notes



# AO Trauma membership Driving excellence and empowering the next generation

Apply

for membership  
[www.aotrauma.org](http://www.aotrauma.org)



Discover the advantages of joining the leading global trauma and orthopedic community, providing its members with education, research, and networking opportunities worldwide. **Join us and share your passion.**



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