

AO Trauma Course— Upper Extremity Trauma with Anatomical Specimens

November 3-5, 2022

Bangalore, India

EVENT PROGRAM



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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.

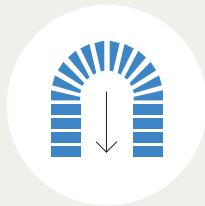
The AO principles of fracture management

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 participant,

Welcome to the AO Trauma Course—Upper Extremity Trauma with Anatomical Specimens, 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.

Yours sincerely,



Mark Reilly
Chairperson AO Trauma
Education Commission



Michael 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.

Course description

This course is a combination of evidence-based lectures, small-group case discussions, and dissection and fixation procedures on anatomical specimens will be used to deliver the content to improve knowledge and skills in the key surgical techniques and in related care. Active engagement by all participants is critical to the effective delivery of this educational event.

Goal of the course

Participants will learn the current management of patient pain, dysfunction, deformity, and cosmesis related to trauma of the upper limb. Fractures from the sternoclavicular joint to the fingertip will be covered as well as joint injuries and dislocations and soft-tissue injuries (the acute trauma phase and the posttraumatic sequelae such as malunion, nonunion, infection, etc).

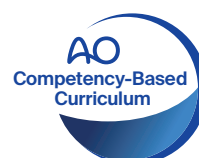
Target participants

Orthopedic and trauma surgeons with at least 3 years of experience who want to develop expertise in upper extremity fracture care or surgeons with many years of experience who want to update their knowledge. Participants should also have completed the AO Trauma Course—Advanced Principles of Fracture Management.

Course objectives

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

- Perform an appropriate assessment of the patient with trauma to the shoulder, humeral shaft, elbow, forearm, wrist, and hand
- Identify the minimal quality requirements for each assessment tool and the optimal way to gather the required information
- Perform a thorough, stepwise analysis of the problem (what is the mechanical, biological, and soft tissue situation and problem)
- Identify the advantages and disadvantages of the treatment options and decide with the patient which is best for their specific needs
- Develop a comprehensive plan based on the needs of the patient, the injury, the patient factors, and the available surgical options
- Complete the plan (perform operative procedures and nonoperative care)
- Provide and communicate overall care, integrating the team, family, and supporting care system



Chairperson



Dheenadhayalan Jayaramaraju
Ganga Hospital
Coimbatore, India

Co-chairperson



Jayasankar Perur Viswanathan
Sundaram Medical Foundation
Chennai, India

International faculty

Hatem	Said	Assiut University Hospital	Egypt
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Regional faculty

Theerachai Joyce	Apivatthakakul Koh	Chiang Mai University Singapore General Hospital	Thailand Singapore
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Local faculty

Hemant	Kalyan	Manipal Hospital	Bangalore	India
Chetan	Pradhan	Sancheti Institute for Orthopaedics & Rehabilitation	Pune	India
John	Mukhopadhaya	Paras HMRI Hospital	Patna	India
Singaravadivelu	Vaidyanathan	Madras Medical College	Chennai	India
Rajiv	Chatterjee	Columbia Asia Hospital	Kolkata	India
Sudhir	Kumar	Shree Jagannath Hospital & Research Centre	Ranchi	India

Thursday

November 3, 2022

09:00-11:00	Faculty precourse meeting , Club Lounge, 11/F	All faculty
10:30-11:30	Coffee break	All faculty
11:00-11:30	Registration (Gokula Ballroom 1, G/F)	
11:30-11:40	Welcome and introduction	Dheenadhayalan J
11:40-12:40	Module 1: Clavicle	Moderator: V Singaravadivelu
11:40-11:50	Clavicle overview	J Koh
11:50-12:35	Small group discussion 1: 1. Conservative treatment of a middle third fracture 2. Plating of a diaphyseal clavicle fracture 3. Lateral clavicle fracture	Group 1: J Mukhopadhaya, V Singaravadivelu Group 2: H Said, PV Jayasankar, R Chatterjee Group 3: Theerachai A, C Pradhan, S Kumar Group 4: J Koh, Dheenadhayalan J, H Kalyan
12:35-12:40	Clavicle - management summary	V Singaravadivelu
12:40-13:40	Module 2: Scapula	Moderator: J Mukhopadhaya
12:40-12:50	Scapula overview	H Said
12:50-13:35	Small group discussion 2 1. Displaced scapular body fracture 2. Floating shoulder 3. Anterior instability (anterior glenoid fracture)	Group 1: J Koh, Dheenadhayalan J, H Kalyan Group 2: J Mukhopadhaya, V Singaravadivelu Group 3: H Said, PV Jayasankar, R Chatterjee Group 4: Theerachai A, C Pradhan, S Kumar
13:35-13:40	Scapula - management summary	J Mukhopadhaya
13:40-14:40	Lunch	
14:40-16:30	Module 3: Proximal humerus	Moderator: Theerachai A
14:40-14:55	Proximal humerus overview	J Mukhopadhaya
14:55-16:25	Small group discussion 3 1. Conservative management in an elderly patient 2. Multimorbid, frail patient with complex fracture (reverse prosthesis) 3. 4 part proximal humerus in young adult 4. Intraarticular screw penetration 5. Implant cutout	Group 1: Theerachai A, C Pradhan, S Kumar Group 2: J Koh, Dheenadhayalan J, H Kalyan Group 3: J Mukhopadhaya, S Vaidyanathan Group 4: H Said, PV Jayasankar, R Chatterjee
16:25-16:30	Proximal humerus - management summary	Theerachai A
16:30-16:45	Coffee break	
16:45-17:45	Module 4: Humeral shaft	Moderator: H Said
16:45-16:55	Humeral shaft overview	Theerachai A
16:55-17:40	Small group discussion 4 1. Simple transverse fracture of the humeral shaft 2. Multi-fragment fracture of the humeral shaft 3. Lateral arm wound- Radial nerve involvement	Group 1: H Said, PV Jayasankar, R Chatterjee Group 2: Theerachai A, C Pradhan, S Kumar Group 3: J Koh, Dheenadhayalan J, H Kalyan Group 4: J Mukhopadhaya, V Singaravadivelu
17:40-17:45	Humeral shaft - management summary	H Said
17:45-18:00	Key messages and reflection on the day	Dheenadhayalan J
Lecture hall on November 3, 2022		
Lecture : Gokula Ballroom 1, Ground Floor		
Small Group Discussion		
Group 1 & Group 2 : Gokula Ballroom 1, Ground Floor		
Group 3 : Zermatt Hall, First Floor		

Friday (Cadaver workshop)

November 4, 2022

09:00-09:15	Introduction to the lab and preparation	Lab director
09:15-14:00	Anterior exposures	Moderator: Dheenadhayalan J
09:15-10:15	Clavicle: Minimally invasive and anterior exposure	C Pradhan
10:15-11:45	Humerus • Deltopectoral approach • Minimally invasive approach	Dheenadhayalan J Theerachai A
11:45-12:00	Coffee break	
12:00-13:00	Elbow • Lateral and Medial column exposure(including coronoid) • Anterior approach to the distal humerus • Anterior approach to proximal radius	J Koh
13:00-14:00	Distal radius • Anterior approach to distal radius • Dorsal approach for distal radius	J Mukhopadhaya
14:00-15:00	Lunch	
15:00-18:00	Posterior exposures	All faculty
15:00-16:15	Scapula	H Said
16:15-16:45	Posterior approach to the humerus shaft: exploration of radial nerve	V Singaravadelu
16:45-17:15	Distal humerus: Paratricipital and triceps split approach	R Chatterjee
17:15-18:00	Olecranon osteotomy approach	S Kumar
18:00-18:30	Key messages and course closure	Dheenadhayalan J

Venue for cadaver workshop on Nov 4

Ramaiah Advanced Learning Center
Address: A unit of M S Ramaiah University of Applied Sciences
University House, New BEL Road, M.S. R Nagar
Bangalore-560054

Saturday

November 5, 2022

08.30-10.20	Module 5: Distal humerus, proximal ulna, and proximal radius	Moderator: J Koh
08.30-08.40	Overview (distal humerus)	H Kalyan
08.40-08.50	Overview (proximal ulna)	S Kumar
08.50-09.00	Overview (proximal radius)	R Chatterjee
09.00-10.00	Small group discussion 5 (distal humerus) 1. Supracondylar fracture in osteoporotic patient 2. Intercondylar fracture of distal humerus Small group discussion (proximal ulna) 1. Multi-fragmentary proximal ulnar fracture (olecranon and coronoid) 2. Varus posteromedial rotatory instability of the elbow	Group 1: J Mukhopadhyaya, S Vaidyanathan Group 2: H Said, PV Jayasankar, R Chatterjee Group 3: Theerachai A, C Pradhan, S Kumar Group 4: J Koh, Dheenadhayalan J, H Kalyan
10.00-10.05	Distal humerus, proximal ulna, and proximal radius - management summary	J Koh
10.05-10.25	Coffee break	
10.25-11.50	Module 6: Elbow and radial and ulnar shaft	Moderator: R Chatterjee
10.25-10.35	Overview (elbow instability)	Dheenadhayalan J
10.35-10.45	Overview (radial and ulnar shaft)	C Pradhan
10.45-11.45	Small group discussion 6 1. Simple elbow dislocation 2. Transolecranon fracture-dislocation of the elbow 3. Terrible triad injury 4. Complex closed multi-fragmentary forearm fracture 5. Monteggia fracture dislocation	Group 1: J Koh, Dheenadhayalan J, H Kalyan Group 2: J Mukhopadhyaya, V Singaravadivelu Group 3: H Said, PV Jayasankar, R Chatterjee Group 4: Theerachai A, C Pradhan, S Kumar
11.45-11.50	Elbow and radial and ulnar shaft - management summary	R Chatterjee
11.50-13.35	Module 7: Distal radius and ulna	Moderator: C Pradhan
11.50-12.00	Overview	PV Jayasankar
12.00-13.30	Small group discussion 7 1. Extraarticular distal radius fracture 2. Radiocarpal fracture dislocation (volar) 3. Dorsal radiocarpal fracture dislocation 4. Multifragmentary articular fracture 5. Essex-Lopresti injury 6. Extraarticular ulna fracture	Group 1: Theerachai A, C Pradhan, S Kumar Group 2: J Koh, Dheenadhayalan J, H Kalyan Group 3: J Mukhopadhyaya, V Singaravadivelu Group 4: H Said, PV Jayasankar, R Chatterjee
13.30-13.35	Distal radius - management summary	C Pradhan
13.35-14.35	Lunch	
14.35-16.30	Module 8: Lessons learnt from complications	Moderator: PV Jayasankar
14.35-15.55	Case presentations	Dheenadhayalan J, H Said, J Koh, V Singaravadivelu, Theerachai A
15.55-16.55	Small group discussion 8 1. Avascular necrosis of humeral head 2. Peri-implant fracture humerus shaft 3. Infected non union both bones forearm 4. Malunion distal radius	Group 1: H Said, PV Jayasankar, R Chatterjee Group 2: Theerachai A, C Pradhan, S Kumar Group 3: J Koh, Dheenadhayalan J, H Kalyan Group 4: J Mukhopadhyaya, V Singaravadivelu
16.55-17.10	Key messages and reflection on the day	Dheenadhayalan J
17:10	End of the course	

Lecutre hall on November 5, 2022

Lecture : Gokula Ballroom 2, Ground Floor

Small Group Discussion

Group 1 & Group 2 : Gokula Ballroom 2, Ground Floor

Group 3 : Zermatt Hall, First Floor

Event information

Organization

AO Global Networks AP
Shailesh Kadam
E-mail: shailesh.kadam@aofoundation.org

Participants' contact

AO Global Event Services AP
Angshu Borgohain
E-mail: angshu.borgohain@aofoundation.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.

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

Gokulam Grand Hotel and Spa

115, Mangalore - Villupuram Rd, HMR Layout, Gokula Extension, Jalahalli, Bengaluru, Karnataka 560054
Phone.: +91 80 4300 1000

Venue for cadaver workshop

Ramaiah Advanced Learning Center
A unit of M S Ramaiah University of Applied Sciences
University House, New BEL Road, M.S. R Nagar
Bangalore-560054

General information

Registration fee

The course fee covers documentation, coffee breaks, lunch, and course certificate.

Course certificate

Course certificates will be available at the end of the event at the registration counter.

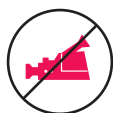
Evaluation guidelines

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.

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.

Dress code

Smart Casual

Lanugage

English

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 (advamed.org)
- Mecomed Guidelines on Interactions with Healthcare Professionals (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.

5. Personnel

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

AO Trauma membership

Driving excellence and empowering the next generation

Apply

for membership
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.**



AO Trauma | Clavadelerstrasse 8 | CH-7270 Davos
Phone +41 81 414 21 11 | Fax +41 81 414 22 80 | info@aotrauma.org

www.aotrauma.org

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