

AO Trauma Master Course— **Lower Extremity Trauma** with Anatomical Specimens

November 4-6, 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.

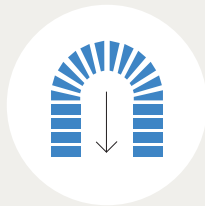
The AO principles of fracture management

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 course participant,

Welcome to the AO Trauma Masters Course—Lower 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 will be 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 problems related to trauma of the lower limb. Fractures from the hip to the ankle 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).

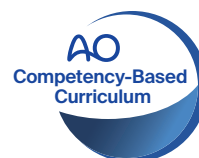
Target participants

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

Learning objectives

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

- Manage immediate problems (life- and limb-threatening issues) related to trauma of the lower limb
- Assess the patient, order imaging, and document and interpret the findings
- Make the diagnosis for fractures and associated injuries to the hip, femur, knee, tibia, and ankle
- Communicate with the patient and family/relatives
- Define a treatment plan and timing based on the options and the patient
- Anticipate, address, and avoid problems and complications (nonunion, malunion, deformity, infection, etc)
- Organize and communicate common objectives and planning with healthcare team
- Perform the operative or nonoperative procedures for metaphyseal, diaphyseal, and open fractures
- Plan immediate and long-term postoperative care, and assess outcomes



Chairperson



Muthur Ajith Kumar

Tejasvini Hospital, Mangalore
India

Co-chairperson



Sudhir Kumar Garg

Government Medical College & Hospital, Chandigarh
India

International faculty

Friedrich

Rodrigo Pesantez

Baumgaertel

Hoyos

Private Practice

Fundacion Santa Fe

Germany

Colombia

Regional faculty

Fareed

Kagda

Ng Teng Fong General Hospital

Singapore

Local faculty

Jamal

Rajiv Raj

Mukesh

Sunil

Ashraf

Choudhry

Jain

Kulkarni

Ujala Medical Center, Lucknow

Asutosh Multi-Speciality Hospital, Surat

Vardhman Trauma & Laparoscopy Centre Pvt Ltd, Muzaffarnagar

GSKs Fracture and Orthopedic Hospital &

Post Graduate Institute of Swasthiyog Pratisthan, Miraj

Noble orthopaedic hospital and trauma center, Surat

Dayanand Medical College & Hospital, Ludhiana

India

India

India

India

Jignesh

Harpal

J Pandya

Selhi

India

India

Friday

November 4, 2022

08:30–08:40	Welcome and introduction to the course	A Kumar, S Garg
08:40–10:00	Module 1: Femoral head and neck	Moderator: F Kagda
08:40–08:50	Lecture: Analyzing the problem Learning objectives (repeated for each module) Describe how to investigate the problem Classify the lesion Relate injury patterns to indications and treatment Decision making (including avoid complications) List the management options	J Ashraf
08:50–09:50	Small group case discussion 1: Case 1: Pipkin 4B fracture with an acetabular Case 2: Vertical line neck fracture, with ipsilateral shaft fracture Case 3: Comminuted femoral neck (calcar region) Case 4: Secondary displacement (nonunion)	All Faculty Group 1: R Pesantez, A Kumar, S Garg Group 2: M Jain, R Choudhary Group 3: F Baumgaertel, S Kulkarni, J Pandya Group 4: F Kagda, H Selhi, J Ashraf
09:50–10:00	Lecture: Current management Learning objectives (repeated for each module) Describe the evidence for the various options Diagnose using a structured approach Manage using a structured approach	F Baumgaertel
10:00–10:20	Coffee break	
10:20–11:40	Module 2: Trochanter	Moderator: R Choudhary
10:20–10:30	Lecture: Analyzing the problem Learning objectives (repeated for each module) Describe how to investigate the problem Classify the lesion Relate injury patterns to indications and treatment Decision making (including avoid complications) List the management options	S Kulkarni
10:30–11:30	Small group case discussion 2: Case 1: Subtrochanteric fracture (failed case) Case 2: Combination of trochanteric and femoral shaft fracture Case 3: Cutout case (discussion on blade plate) Case 4: Periprosthetic fracture	Group 1: J Pandya, J Ashraf Group 2: F. Baumgaertel, R Choudhary, S Garg Group 3: F Kagda, A Kumar, M Jain Group 4: R Pesantez, H Selhi, S Kulkarni
11:30–11:40	Lecture: Current management Learning objectives (repeated for each module) Describe the evidence for the various options Diagnose using a structured approach Manage using a structured approach	R Pesantez
11:40–13:00	Module 3: Femoral shaft	Moderator: R Pesantez
11:40–11:50	Lecture: Analyzing the problem Learning objectives (repeated for each module) Describe how to investigate the problem Classify the lesion Relate injury patterns to indications and treatment Decision making (including avoid complications) List the management options	H Selhi

Lecture hall on November 4, 2022

Lecture: Gokula Ballroom 1, Ground Floor

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

Small Group Discussion: Group 3: Geneva Room 1, Ground Floor

Small Group Discussion: Group 4: Geneva Room 2, Ground Floor

Friday

November 4, 2022

11:50–12:50	Small group case discussion 3 Case 1: Distal femoral fracture with an ipsilateral shaft fracture Case 2: Comminuted bilateral femoral fractures Case 3: Malrotation case/nonunion Case 4: Periprosthetic fracture	Group 1: F Baumgaertel, S Garg, J Ashraf Group 2: F Kagda, J Pandya, H Selhi Group 3: R Pesantez, M Jain, R Choudhary Group 4: A Kumar, S Kulkarni
12:50–13:00	Lecture: Current management Learning objectives (repeated for each module) Describe the evidence for the various options Diagnose using a structured approach Manage using a structured approach	F Kagda
13:00–13:40	Lunch	
13:40–15:00	Module 4: Distal Femur	Moderator: H Selhi
13:40–13:50	Lecture: Analyzing the problem Learning objectives (repeated for each module) Describe how to investigate the problem Classify the lesion Relate injury patterns to indications and treatment Decision making (including avoid complications) List the management options	S Garg
13:50–14:50	Small group case discussion 4 Case 1: Comminuted distal femur with Hoffa fracture Case 2: Periprosthetic fracture Case 3: Metaphyseal nonunion Case 4: Open intraarticular fracture with bone loss	Group 1: F Kagda, S Kulkarni, R. Choudhary Group 2: R Pesantez, J Pandya, J Ashraf Group 3: S Garg, H Selhi Group 4: F Baumgaertel, A Kumar, M Jain
14:50–15:00	Lecture: Current management Learning objectives (repeated for each module) Describe the evidence for the various options Diagnose using a structured approach Manage using a structured approach	F Baumgaertel
15:00–15:30	Cases from Participants	
15:30–15:45	Coffee break	
15:45–17:30	Tips from the masters: Expanded case Discussion Femoral Head & Neck Trochanter Femoral Shaft Distal Femur	
17:30–17:40	Key messages and reflection on the day	All Faculty
17:40	End of day 1	

Lecture hall on November 4, 2022

Lecture: Gokula Ballroom 1, Ground Floor

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

Small Group Discussion: Group 3: Geneva Room 1, Ground Floor

Small Group Discussion: Group 4: Geneva Room 2, Ground Floor

Saturday

November 5, 2022

08:00–09:20	Module 5: Knee	Moderator: M Jain
08:00–08:10	Lecture: Analyzing the problem	A Kumar
08:10–09:10	Small group case discussion 5 Case 1: Comminuted patellar fracture Case 2: Ipsilateral shaft fracture with knee, or ipsilateral femur fracture with a distal femoral fracture Case 3: Floating knee Case 4: Medial tibial plateau fracture Optional: ACL/PCL disruption	Group 1: R Pesantez, M Jain, S Kulkarni Group 2: R Choudhary, J Ashraf Group 3: F Baumgaertel, A Kumar, H Selhi Group 4: F Kagda, S Garg, J Pandya
09:10–09:20	Lecture: Current management	F Baumgaertel
09:20–0:30	Module 6: Proximal tibia	Moderator: S Kulkarni
09:20–9:30	Lecture: Analyzing the problem	J Pandya
09:30–10:30	Small group case discussion 6 Case 1: Tibial plateau fracture compartment syndrome Case 2: Periprosthetic fracture Case 3: Bicondylar tibial plateau with posterolateral involvement Case 4: Posterior tibial plateau fracture	Group 1: H Selhi, M Jain Group 2: F Baumgaertel, A Kumar, J Pandya Group 3: F Kagda, J Ashraf, S Kulkarni Group 4: R Pesantez, S Garg, R Choudhary
10:30–10:40	Lecture: Current management	M Jain
10:40–11:00	Coffee break	
11:00–12:20	Module 7: Tibial shaft	Moderator: S Garg
11:00–11:10	Lecture: Analyzing the problem	F Kagda
11:10–12:10	Small group case discussion 7 Case 1: Open type (3B) tibial fracture Case 2: Infected tibial diaphyseal fracture Case 3: Tibial plateau with tibial shaft fracture Case 4: Proximal third tibial shaft fracture	Group 1: F Baumgaertel, H Selhi, R Choudhary Group 2: F Kagda, S Kulkarni, S Garg Group 3: R Pesantez, M Jain, J Pandya Group 4: A Kumar, J Ashraf
12:10–12:20	Lecture: Current management	A Kumar
12:20–13:40	Module 8: Distal tibia and pilon	Moderator: J Ashraf
12:20–12:30	Lecture: Analyzing the problem	M Jain

Lecture hall on November 5, 2022

Lecture: Gokula Ballroom 1, Ground Floor

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

Small Group Discussion: Group 3, Geneva Room 1, Ground Floor

Small Group Discussion: Group 4: Geneva Room 2, Ground Floor

Saturday

November 5, 2022

12:30–13:30	Small group case discussion 8 Case 1: Distal third tibial shaft fracture Case 2: B-type pilon fracture with posterior fragments Case 3: Open C-Type Pilon Fracture Case 4: Metaphyseal pilon nonunion	Group 1: F Kagda, S Kulkarni, J Pandya Group 2: R Pesantez, M Jain, J Ashraf Group 3: R Choudhary, A Kumar Group 4: F Baumgaertel, S Garg, H Selhi
13:30–13:40	Lecture: Current management	R Pesantez
13:40–14:20	Lunch	
14:20–15:40	Module 9: Ankle	Moderator: J Pandya
14:20–14:30	Lecture: Analyzing the problem	J Ashraf
14:30–15:30	Small group case discussion 9 Case 1: Ankle fracture and syndesmosis injury Case 2: Open ankle fracture dislocation Case 3: Tri-malleolar fracture Case 4: Concomitant tibial shaft and ankle fractures	Group 1: R Pesantez, A Kumar, S Kulkarni Group 2: M Jain, S Garg Group 3: F Baumgaertel, H Selhi, J Ashraf Group 4: F Kagda, R Choudhary, J Pandya
15:30–15:40	Lecture: Current management	R Choudhary
15:40–16:00	Coffee break	
16:00–17:30	Tips from the masters: Expanded case Discussion Knee Proximal Tibia Tibia Shaft Distal Tibia Ankle	
17:30–17:40	Key messages and reflection on the day	All Faculty
17:40	End of day 2	

Lecture hall on November 5, 2022

Lecture: Gokula Ballroom 2, Ground Floor

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

Small Group Discussion: Group 3, Geneva Room 1, Ground Floor

Small Group Discussion: Group 4: Geneva Room 2, Ground Floor

Sunday (Cadaver Workshop)

November 6, 2022

08:15-08:30	Introduction to the lab and preparation	Lab Director
	Anterior approaches	Moderator: M Jain
08:30-09:30	Anterior approach to the hip	R Pesantez
09:30-10:15	Approaches to the distal femur	F Baumgaertel
10:15-10:35	Short break (wellness break)	
10:35-11:35	Subvastus approach to the distal femur, including approach to medial femoral condyle	F Kagda
11:35-12:35	Anterolateral approach to the tibial plateau with lateral femoral condyle osteotomy	F Baumgaertel
12:35-13:20	Lunch Specimen changed to prone position	
	Posterior approaches	Moderator: F Baumgaertel
13:20-14:00	Posterolateral approach to the hip joint	S Garg, H Selhi
14:00-14:40	Posterior tibial plateau approach: posterolateral (with fibular osteotomy)	M Jain
14:40-15:10	Posterior tibial plateau approach: direct posterior	J Pandya
15:10-15:30	Short break (wellness break)	
15:30-16:05	Posteromedial and posterolateral approaches to the distal tibia	M Jain, A Kumar
16:05-16:20	Key messages and course closure	
16:20	End of the course	

Cadaver workshop venue:

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

General organization

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

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.

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.

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.

Venue

Gokulam Grand Hotel and Spa

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

Cadaver workshop venue:

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

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.

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 of lectures, practical exercises, case discussions, or any course 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 meeting rooms. Wearing of a name tag is compulsory during lectures, workshops, and group discussions.

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.

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.**



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