

AO Trauma Course— Pelvic and Acetabular Fracture Management with Anatomical Specimens

November 3-6, 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.

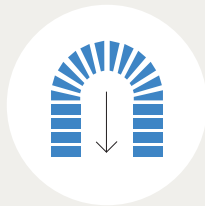
The AO principles of fracture management

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 Course—Pelvic and Acetabular Fracture Management 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

Surgeons participating in this course will learn how to address acute management of pelvic ring and acetabular injuries; how to evaluate, diagnose, classify, and determine appropriate timing and indications for interventions. They will be able to apply knowledge and skills in selection and performance of the surgical approach for specific injuries and definitive reconstruction of complex fractures.

A faculty of experts will cover key concepts of pelvic and acetabular diagnosis and treatment. Simulation exercises, including dissection of anatomical specimens, will expose participants to the essentials of the surgical approach and related anatomy. Artificial bone model practical exercises will give participants experience in the application of different reduction and fixation techniques. All concepts will be expanded and reinforced in interactive group discussions, emphasizing the diagnosis, evaluation, indications, treatment modalities, decision-making processes, and complications.

Goal of the course

The AO Trauma Course—Pelvic and Acetabular Fracture Management offers experienced participants an understanding of the initial evaluation, stabilization, and definitive treatment of patients with fractures and dislocations of the pelvic ring, acetabulum, or both. The AO Principles, the latest techniques, and up-to-date evidence will be incorporated into the course, guiding participants in developing the knowledge and skills needed to treat these injuries and improve patient outcomes.

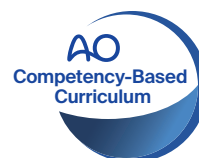
Target participants

Participants should be fully trained orthopedic and/or trauma surgeons with subspecialty interest in the treatment of pelvic and acetabular fractures. They must have already completed the AO Trauma Courses—Basic Principles and Advanced Principles of Fracture Management.

Learning objectives

Upon completion of this course, participants will be able to:

- Define key elements in the initial evaluation of pelvic and acetabular fractures
- Classify pelvic and acetabular injuries and recognize the implications for treatment
- Apply emergency treatment and stabilization techniques for pelvic ring injuries and initial management of acetabular fractures
- Demonstrate appropriate decision-making and operative planning strategies
- Define indications and apply surgical approaches to the pelvis and acetabulum, identifying the important anatomical structures
- Describe indications and perform techniques of reduction and fixation
- Discuss early and late results and complications of pelvic and acetabular surgery
- Identify issues related to challenging fractures with compromised bone quality or late reconstructions



Chairperson



Dhaval Desai

Dr Desai's Orthopedic Centre
India

Co-chairpersons



Ramesh K Sen

Max Hospital, Mohali
India

International faculty

Michel
Mark

Oransky
Reilly

Aurelia Hospital
New Jersey Medical School

Italy
USA

Regional faculty

Apipope
Takeshi

Kritsaneephaiboon
Sawaguchi

Prince of Songkla University
Fukushima Medical University, Shin-Yurigaoka General Hospital

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Japan

Local faculty

Chitta
Abhay
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Ramesh
Vivek

Das
Elhence
Naik
Patel
Perumal
Trikha

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AIIMS Jodhpur
Kasturba Medical College Hospital, Manipal
NHL Medical college, SCL General Hospital, Ahmedabad
Ganga Medical Centre and Hospital, Coimbatore
AIIMS New Delhi

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India

Thursday

November 3, 2022

7:00-7:50	Registration (Gokula Ballroom 2)	
7:50-8:00	Welcome	D Desai
8:00-9:50	Module 1: Assessment of Pelvic Ring Injuries	Moderator: A Elhence, V Trikha
8:00-8:10	Anatomy and biomechanics of the pelvic ring	T Sawaguchi
8:10-8:25	Radiographic (x-ray and computed tomography) assessment	A Elhence
8:25-8:40	Clinical assessment and imaging of associated injuries	R Perumal
8:40-8:50	Classification of pelvic injuries	M Naik
08:50-09:50	Small group discussion 1 Cases: Bony lesion (x2), hemorrhage control, open fracture	Group 1: M Reilly, D Desai, M Naik Group 2: T Sawaguchi, CP Das, A Elhence Group 3: M Oransky, R Sen, R Perumal Group 4: Apipop K, V Trikha
09:50-10:10	Coffee Break	
	Module 2: Acute management of pelvic ring injuries	Moderator: Apipop K, M Naik
10:10-10:25	Acute management of pelvic ring injuries	Apipop K
10:25-10:35	Hemorrhage control: angiography and/or packing	M Reilly
10:35-10:45	Management of associated injuries in polytrauma patients	D Desai
10-45-11:45	Small group discussion 2 Cases: Bony lesion (x2), Associated injuries, Open fracture Concentrate on acute management	Group 1: T Sawaguchi, V Trikha, A Elhence Group 2: M Oransky, D Desai, R Perumal Group 3: Apipop K, CP Das Group 4: M Reilly, R Sen, M Naik
11:45-12:15	Practical demonstration (Video 20222) Binder application—stabilization of pelvic ring with a C-clamp	M Reilly, V Trikha
12:15-13:15	Practical exercises 1: (Video 00122, Bone model: 4083.10): Stabilization of pelvic ring with external fixator. Iliac crest and supraacetabular insertion of Schanz screws	M Oransky, M Naik
13:15-14:00	Lunch	

Lecture hall on November 3, 2022

Lecture and Practical Exercises: Gokula Ballroom 2, Ground Floor

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

Small Group Discussion: Group 3 & Group 4: Davos Banquet Hall 1, Ground Floor

Thursday

November 3, 2022

	Module 3: Definitive management of pelvic ring injuries	Moderator: T Sawaguchi, R Perumal
14:00-14:15	Decision making—surgical indications	V Trikha
14:15-14:30	Anterior pelvic ring injuries	Apipop K
14:30-14:45	Posterior lesions—treatment of SI dislocations and SI fracture dislocations	T Sawaguchi
14:45-15:00	Sacral fractures—techniques of reduction and fixation with iliosacral screws, tension band plating and lumbopelvic fixation	V Trikha
15:00-16:00	Small group discussions 3: Identify different injury patterns Select an appropriate treatment option for reduction and fixation in each situation	Group 1: M Oransky, R Sen, N Patel Group 2: Apipop K, V Trikha, M Naik Group 3: M Reilly, D Desai, A Elhence Group 4: T Sawaguchi, CP Das, R Perumal
16:00-16:20	Coffee Break	
16:20-17:20	Practical exercise 2: (Video 20249, Bone model:4087): Reduction and plating of symphysis disruption Anterior plating of sacroiliac joint dislocation	R Perumal, N Patel
17:20-18:20	Practical exercise 3: (Video 20233, Bone model: PR0925): Iliosacral screw fixation Tension band plate	Apipop K, D Desai
18:20	End of Day 1	

Lecture hall on November 3, 2022

Lecture and Practical Exercises: Gokula Ballroom 2, Ground Floor

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

Small Group Discussion: Group 3 & Group 4: Davos Banquet Hall 1, Ground Floor

Friday

November 4, 2022

08:00-09:30	Module 4: Management of pelvic ring injuries in older adults, complications and outcomes	Moderator: M Reilly, N Patel
08:00-08:15	Evaluation and treatment of pelvic insufficiency fractures	T Sawaguchi
08:15-08:30	Prevention and management of complications	R Perumal
08:30-08:45	Long-term results of pelvic fractures	M Oransky
08:45-09:15	Plenary case discussion Add complex cases, eg, standard geriatrics, complications	M Reilly
09:15-09:30	Q&A	
	Module 5: Assessment of acetabular fractures	Moderator: N Patel, M Oransky
09:30-09:45	Anatomy and radiological assessment of acetabular fractures	M Oransky
09:45-10:00	Classification of acetabular fractures	N Patel
10:00-10:15	Coffee Break	
10:15-12:00	Small group discussion 4: Radiology, classification, and treatment of acetabular fractures Part 1: PW, PC, PW/PC, Tr, Tr PW & T Shaped Part 2: AW, AC, APH, ABC	Group 1: Apipop K, CP Das, R Perumal Group 2: M Reilly, R Sen, N Patel Group 3: T Sawaguchi, V Trikha, M Naik Group 4: M Oransky, D Desai, A Elhence
	Module 6: Management of acetabular fractures	Moderator: R Sen, D Desai
12.00-12.15	Decision-making—indications and timing for operative treatment	CP Das
12.15-12.30	Decision-making—choice of approach for operative treatment	R Sen
12.30-12.45	Kocher-Langenbeck approach—indications and techniques of reduction and fixation	A Elhence
12.45-13.00	Ilioinguinal approach—indications and techniques of reduction and fixation	Apipop K
13.00-13.40	Lunch	
13.40-14.40	Small group discussions 5: Include cases on posterior wall fracture types	Group 1: M Reilly, A Elhence, V Trikha Group 2: T Sawaguchi, R Perumal, D Desai Group 3: M Oransky, N Patel, CP Das Group 4: Apipop K, M Naik, R Sen
14.40-16.10	Practical exercise 4: (Video 20135, Bone model: 4068): Internal fixation of transverse plus posterior wall fractures	R Sen, A Elhence
16.10-16.30	Coffee Break	
16.30-18.00	Practical exercise 5: (Video 20234 or 20137, Bone model: 4066): Internal fixation of associated both column fractures	T Sawaguchi, V Trikha
18.00-18.10	Plan for Wet lab	

Lecture hall on November 4, 2022

Lecture and Practical Exercises: Gokula Ballroom 2, Ground Floor

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

Small Group Discussion: Group 3 & Group 4: Davos Banquet Hall 1, Ground Floor

Saturday (Cadaver Workshop)

November 5, 2022

		Moderator: CP Das, M Reilly
08:30-08:45	Anterior intrapelvic (modified Stoppa) approach—indications and techniques of reduction and fixation	V Trikha
08:45-09:00	Gibson approach with trochanteric flip osteotomy and dislocation	T Sawaguchi
09:00-09:15	Iliofemoral approach	CP Das
09:15-09:30	EIF	CP Das
	Instruction changeover	
09:40-13:00	Anterior approaches	M Oransky
	Ilioinguinal	
	Stoppa Window	
	Lateral Window/SI Joint exposures	
	Middle Window	
11:15-11:30	Coffee break	
	Demo Iliofemoral	CP Das
	Demo Iliosacral screws	M Reilly
	Demo Column Screws and Anterior to Posterior Screws	Apipop K
13:00-14:00	Lunch	
14:00-17:30	Posterior Approaches	
14:00-17:30	KL Approach	T Sawaguchi
	Demo Flip	M Oransky
	Sacral Exposures	V Trikha
	Demo Column Screws and Anterior to Posterior Screws	M Reilly
17:30	End of Day 3	

Cadaver workshop venue:

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

	Module 7: Management of Acetabular fractures in elderly, Complications and outcomes	Moderator: M Oransky, A Elhence
08:00-08:15	Acetabular fractures in older adults	T Sawaguchi
08:15-08:35	Pediatric Pelvi acetabular fracture	M Oransky
08:35-08:50	Prevention and management of complications after acetabular surgery	M Naik
08:50-09:00	Functional outcomes of acetabular fractures	CP Das
09:00-09:30	Plenary case discussion and summary session for acetabular fractures	M Reilly
	Q&A	
	Module 8: Definite Management of Complex pelvic Ring Injuries	Moderator: M Naik, CP Das
09:30-09:45	Case-based plenary discussion: management of complex anterior pelvic ring injuries	V Trikha
09:45-10:00	Case-based plenary discussion: percutaneous fixation	A Elhence
10:00-10:15	Indications and techniques for spinopelvic fixation	R Perumal
10:15-10:30	Case-based plenary discussion: posterior lesions (SIJ disruption and sacral fractures)	M Reilly
10:30-10:50	Coffee Break	
	Module 9: Special clinical situations and salvage of pelvic ring injuries	Moderator: R Perumal, V Trikha
10:50-11:05	Salvage, late reconstruction of nonunion and malunion	R Sen
11:05-11:20	Case-based plenary discussion: when things go wrong	M Oransky
11:20-11:40	Case Based discussion open fractures, Moralle Lavalle Lesion	R Perumal
	Module 10: Management of complex acetabular fractures	Moderator: R Sen, Apipop K
11:40-11:50	Preoperative planning	N Patel
11:50-12:00	Case-based plenary discussion: when do we need an anterior approach?	V Trikha
12:00-12:10	Case-based plenary discussion: when do we need an posterior approach?	D Desai
12:10-12:20	Case-based plenary discussion: Indications for combined (anterior and posterior) approaches	M Naik
12:20-12:30	Percutaneous Acetabular Fixation	Apipop K
12:30-12:40	Q&A	
12:40-13:20	Lunch	
	Module 11: Challenges in acetabular fractures	Moderator: D Desai, T Sawaguchi
13:20-13:30	Floating Hip Injury	D Desai
13:30-13:40	Pipkin Fracture	R Sen
13:40-13:50	Combined Pelvic Acetabular Injuries	Apipop K
13:50-14:00	DVT	N Patel
14:00-14:15	Late Reconstruction Of Acetabular fractures	CP Das
14:15-14:30	Thr in Acetabular Fractures	T Sawaguchi
14:30-15:00	Closure	
15:00	End of the course	

Lecture hall on November 6, 2022

Lecture: Gokula Ballroom 2, Ground Floor

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

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

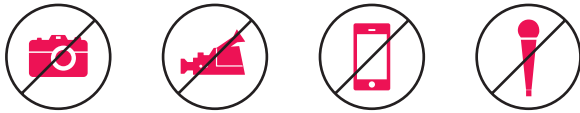
All AO Trauma events apply the same evaluation process, which includes pre- and post-event online evaluation and on-site written questionnaires. These evaluation tools help ensure that AO Trauma continues to meet your training needs.

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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