


AO Trauma Masters Course— **Current Concepts— Everything about the Hip**

December 3–8, 2023
Davos, Switzerland

Lecture room:
Sertig

PROGRAM

A photograph of two surgeons in an operating room. They are wearing blue surgical gowns, blue masks, and blue hairnets. The surgeon on the right is also wearing blue gloves. They are focused on a surgical instrument, which appears to be a hip prosthesis. The background is blurred, showing other people in the operating room.

Home to
**trauma and
orthopedics**

Mission

The AO's mission is promoting excellence in patient care and outcomes in trauma and musculoskeletal disorders.

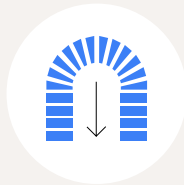
The AO principles of fracture management

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.

CME Mission

The continuing medical education (CME) mission of the AO Foundation is to provide comprehensive multidisciplinary needs-based education to surgeons, fellows, and residents in the specialties of orthopedics, hand, craniomaxillofacial, spine, neurosurgery, and veterinary surgery in the areas of trauma (ie, operative reduction and fixation), degenerative disorders, deformities, tumors, and reconstruction.

Expected results of the CME activities for surgeons, fellows, and residents are to:

- Increase their knowledge base and surgical skill level.
- Improve competence by applying advances of knowledge in patient care in the areas of trauma, degenerative disorders, deformities, tumors, and reconstructive surgical techniques.
- Address practice performance gaps by improving the management of aspects of traumatic injuries and musculoskeletal disorders (ie, preoperative planning to postoperative care).

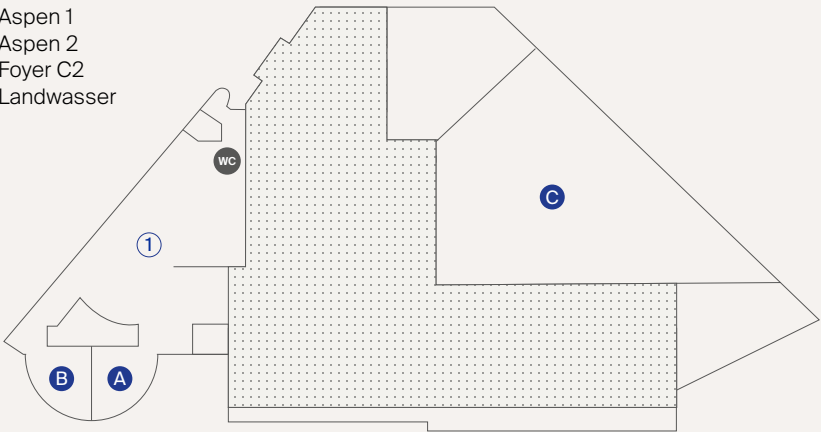
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Floor plan

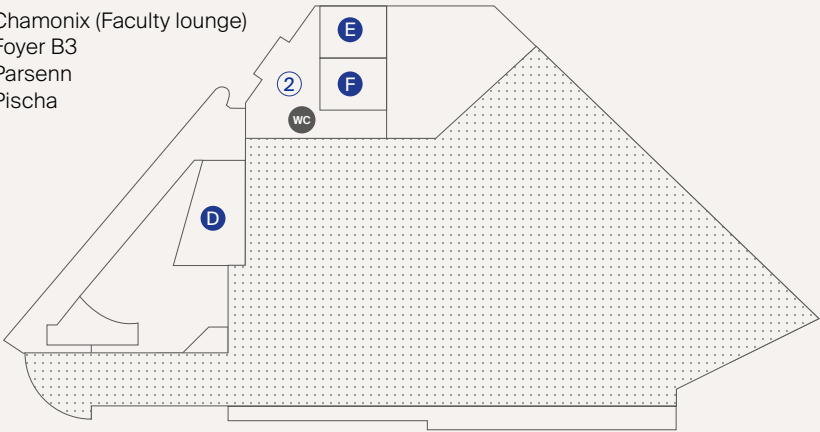
Level Promenade

- A Aspen 1
- B Aspen 2
- 1 Foyer C2
- C Landwasser

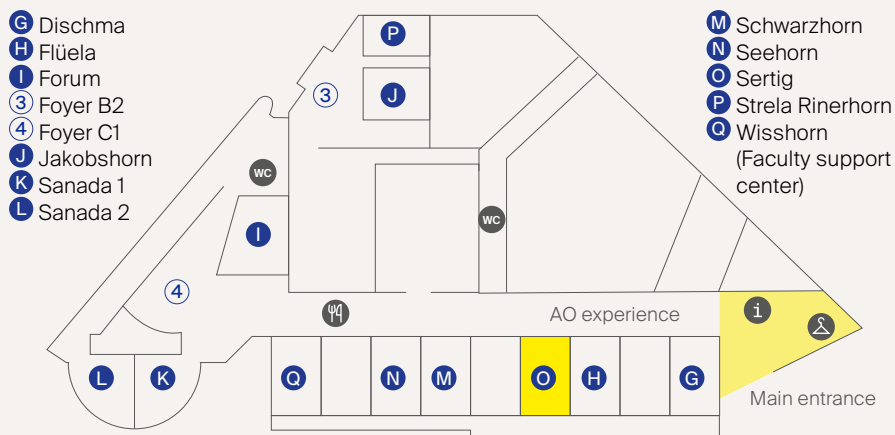


Level Mezzanine

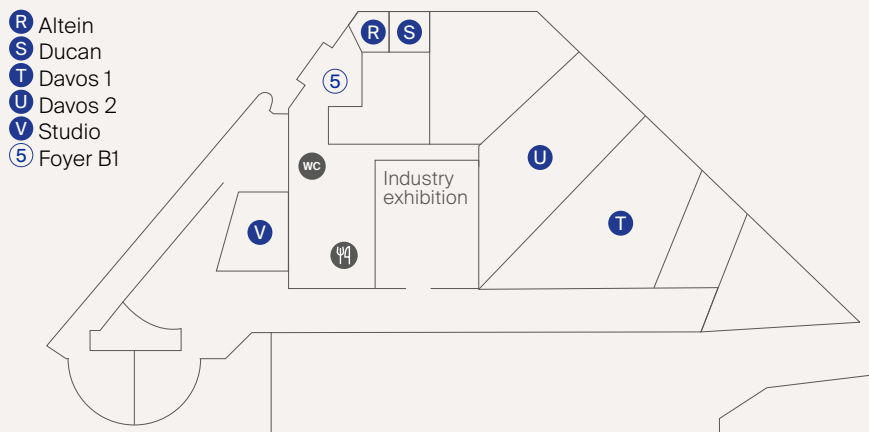
- D Chamonix (Faculty lounge)
- 2 Foyer B3
- E Parsenn
- F Pischcha



Level Kurpark



Level Talstrasse



Welcome

Dear AO Trauma course participant,

Welcome to AO Trauma's educational activities at the AO Davos Courses 2023. It is great to have you in Davos after the hiatus we experienced due to the pandemic over the past years. We are taking a range of measures to keep you safe and healthy while you are in Davos. At the same time, we hope you will enjoy the experience of returning to face-to-face, on-site education!

We provide a wide range of relevant courses designed to meet your specific professional needs and are confident that you will find your course and the networking experiences professionally rewarding.

With a global reputation for innovation, leadership, and excellence in continuing medical education (CME), AO Trauma and the AO Education Institute are transforming education by expanding the educational activities available to you. CME is not just about face-to-face, on-site courses. Our educational offerings address the specific clinical problems that you encounter every day. Visit our website at www.aotrauma.org to see the latest educational activities.

At the AO Davos Courses 2023, AO Trauma offers you a chance to actively engage in your course and the opportunity to:

- Interact with over 300 international faculty.
- Expand your professional network by building contacts and new relationships with colleagues, including faculty and participants from over 80 countries.
- Meet with staff and surgeons from the AO's clinical divisions, unit, institutes, and initiatives.
- Visit exhibits in the AO experience to get an insight into the AO's ongoing activities and resources available to support you in your clinical work.
- Experience the AO spirit of collegiality and camaraderie that is felt by participants and faculty alike.

Your current level of knowledge, attitudes, and skills will be challenged throughout the week. The best-in-class curriculum and faculty will provide you a memorable learning experience that will remain with you for a lifetime.

If you enjoy the experience during this week and would like to stay in touch, we invite you to become a member of AO Trauma. Medical doctors (and doctors of osteopathic medicine) who have completed AO Trauma Basic Principles course are eligible for membership. Contact us to find out more.

Yours sincerely,



Mark Reilly
Chairperson AO Trauma
Education Commission



Wa'el Taha
Chairperson AO Trauma
International Board

Your experiences with us, over the next few days, will result in the realization of new and meaningful knowledge, skills, and understanding that we hope will translate into improved patient care.

Goal of the event

The goal of this course is to enhance knowledge and skills in managing basic and difficult and complex cases around the hip. State-of-the-art techniques and approaches, best practices for treatment, and the management of complications will all be addressed at a high level.

Target participants

Participants must have completed the AO Trauma Basic and Advanced Principles courses. They must be actively involved in orthopedic trauma management and preferably have at least 5 years of post-residency experience in trauma surgery. Participants must be willing to share their ideas and be able to communicate well in English.

Learning objectives

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

- Accurately classify and treat fractures of the hip and proximal femur
- Decide the best arthroplasty treatment for hip fractures
- Understand the natural history and treatment of young adult hip diseases
- Manage common complications of hip fractures
- Discuss the treatment of periprosthetic hip fractures
- Safely perform a variety of surgical approaches to the hip
- Plan and perform osteotomies of the proximal femur

Event description

Current concepts courses and modules address the latest techniques and best practices in operative fracture management dealing with complex orthopedic trauma problems. The course includes many case presentations and open group discussions moderated by experts in the field. Best evidence is presented through summary lectures and practical exercises on dry bones and at the anatomical specimen laboratory.

Event structure

This 5-day, masters-level course covers almost everything about the hip, from everyday fractures to the more complicated ones and conservative hip cases. High level presentations will cover first the state of the art about a specific problem. Then interactive Panel-Participants discussion and small group discussion will dig deeper into. Practical exercises and anatomical specimen laboratories will finally allow the participant to put what he has learned into practice. A great plus of this course is the adjunction of the new Universal Learning Modules (ULMs). These independent half-day modules, with dedicated faculty, will add a plus to the learning experience and will give participants a more insight into three very important interdisciplinary topics: infection, nonunion-malunion, and fragility fractures.



Chairpersons



Filippo Randelli

Gaetano Pini Orthopaedic Institute
University of Milan, Italy



James Learned

University of California,
Irvine, USA

International faculty

Alessandro Aprato

University of Turin, Turin, Italy

Brett Crist

University of Missouri, Columbia, USA

Sherif A Khaled

Cairo University, Cairo, Egypt

Apipop Kritsaneephaiboon

Prince of Songkla University, Songkhla, Thailand

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Luis Ochoa Olvera

American British Medical Center, Mexico City, Mexico

Paulo Rego

Hospital da Luz, Orthopaedic Department Lisbon,
University Lisbon, Portugal

Takeshi Sawaguchi

Shin-Yurigaoka General Hospital, Fukushima University,
Kawasaki, Japan

Hobie Summers

Loyola University Medical Center, Chicago, USA

Michiel Verhofstad

Erasmus University Medical Center, Rotterdam,
Netherlands

Faculty Disclosure

To ensure that continuing education is based on valid content and is free from commercial influence, the AO Foundation identifies, mitigates, and discloses relevant financial relationships within the prior 36 months with ineligible companies (companies that produce, market, sell, resell, or distribute healthcare products used by or on patients) of chairpersons, faculty, and content planners. The process follows the standards and recommendations of international accreditation bodies (ACCME, UEMS/EACCME) for continuing medical education.

Universal Learning Module

Fragility Fractures

Learning objectives

This module presents the latest approaches to the management of older adults with a fragility fracture. It is delivered through lectures on surgical and medical aspects of care, case-based lectures, small group discussions, and practical exercises.

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

- Explain the characteristics of osteoporotic fractures
- Define the need for structured treatment of fragility fractures
- Recall the importance of early surgical treatment of fragility fractures
- Identify and respect critical soft tissue conditions in the elderly
- Perform and assess adequate fixation techniques for fragility fractures
- Prevent, identify, and treat complications of fixation failure
- Assess the importance of medical comorbidities
- Describe the risk of adverse medication effect and know how to prevent it
- Explain the components of orthogeriatric comanagement

Chairpersons



Ji Wan Kim
Asan Medical Center,
University of Ulsan College
of Medicine
Seoul, South Korea



Ulrich Stöckle
Charité – Universitäts-
medizin Berlin
Berlin, Germany

Faculty

Ali Alyami	King Abdulaziz Medical City National Guard, Jeddah, Saudi Arabia
Hitendra Doshi	Gleneagles Hospital, Singapore, Singapore
Emilio Fantin	IUCBC, University Institute of Biomedical Science, Córdoba, Argentina
Harm Hoekstra	University Hospitals Leuven, Leuven, Belgium
Christian Kammerlander	AUVA Trauma Hospital Styria, Graz, Austria
Oliver Kögler	Klinikum Nürnberg, Nürnberg, Germany
Hans Kreder	Sunnybrook Health Sciences Centre, Toronto, Canada
Sunil Kulkarni	GSKs Fracture and Orthopedic Hospital & Post Graduate Institute of Swasthiyog Pratisthan, Miraj, India
Joseph Nicholas	University of Rochester Medical Center, Rochester, USA

Universal Learning Module

Infection (Treatment of acute and chronic fracture-related infections)

Learning objectives

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

- Identify how to diagnose fracture-related infection
- Discuss when it is appropriate to retain or remove implants in the presence of fracture-related infection
- Discuss the role of local and intramedullary debridement in the treatment of fracture-related infection
- Describe how to treat dead space after debridement
- Describe a staged approach to the treatment of infected nonunion
- Describe when to use the various types of fixation in the treatment of fracture-related infections

Chairpersons



Carlos Sancineto
Hospital Italiano de Buenos Aires, Buenos Aires, Argentina



Jong-Keon Oh
Korea University Guro Hospital, Seoul South Korea

Faculty

Matheus Azi	Manoel Victorino Hospital, Salvador, Brazil
Pedro Caba	Doussoux Hospital Universitario 12 de Octubre, Madrid, Spain
Nik Kanakaris	Leeds Teaching Hospitals NHS Trust, Leeds, UK
Christopher McAndrew	Washington University Orthopaedics, St. Louis, USA
Iztok Gril	University Clinical Centre Ljubljana, Ljubljana, Slovenia
Michael Schütz	Royal Brisbane and Women's Hospital, Brisbane, Australia
Michael Sirkin	Rutgers New Jersey Medical School, New Jersey, USA
Alejandro Vallejo	Díaz Servicios De Salud Universidad De Antioquia IPS Universitaria, Medellín, Colombia
Muhammad Wajid	Shalamar Medical and Dental College, Lahore, Pakistan

Universal Learning Module

Nonunion and Malunion

Learning objectives

Nonunion

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

- Classify and diagnose the different types of aseptic nonunion
- Plan the treatment
- Analyze tips and tricks in using internal fixation
- Deal with the uneventful possible complication

Malunion

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

- Perform clinical and radiographic evaluation
- Plan the correction
- Analyze tips and tricks in using internal fixation
- Decide on the use of joint substitution

Chairpersons



Marco Berlusconi
Ospedale Sant'Anna di
Como, Como, Italy



Abdel-Hakim Massoud
Al-Azhar University
Hospital, Cairo, Egypt

Faculty

Waleed Alsaadan	Medical City Teaching Complex / Nursing Home and Ghazi Hariri Surgical Specialty Hospital, Baghdad, Iraq
Timothy Weber	St Vincent Hospital, Indianapolis, USA
Jorge Boretto	Hospital Italiano de Buenos Aires, Buenos Aires, Argentina
William Dias Belangero	UNICAMP, São Paulo, Brazil
Michael Miranda	Professor of Orthopedics, University of Connecticut, Connecticut, USA
Joyce Suang Bee	Koh Singapore General Hospital, Singapore, Singapore
Ashraf Moharram	Cairo University, Giza, Egypt
Martin Richardson	Orthopaedics Victoria, Richmond, Australia
Pol Rommens	University Medical Center, Johannes Gutenberg, University Mainz, Mainz, Germany

Sunday

December 3, 2023

15:00	Opening of the Davos Congress Centre
15:00–17:00	Registration of participants
17:00–19:00	Opening ceremony

Tuesday

December 5, 2023

17:45–20:30	AO Davos Courses Night Davos Congress Centre
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Monday

December 4, 2023

08:00–08:10	Welcome and introduction to the course	F Randelli, J Learned
Module 1 Moderator: F Randelli, J Learned Anatomy and femoral head and neck fracture fixation		
08:10–08:25	Hip anatomy—vascularity	A Kritsaneephaiboon
08:25–08:35	Imaging of the hip	S Khaled
08:35–08:50	Femoral head fractures	H Summers
08:50–09:05	Femoral neck fractures—key points	F Randelli
09:05–09:20	Approach choice for head fracture and femoral neck direct reduction	M Verhofstad
09:20–09:35	Intertrochanteric femoral fractures	J Maria Muñoz Vives
09:35–09:50	Subtrochanteric femoral fractures	L Ochoa Olvera
09:50–10:20	Panel discussion (Moderators and faculty of the module with cases)	
10:20–10:30	Question and answer session	
10:30–10:45	Coffee break	
10:45–12:00	Discussion group 1 Femoral head, neck, intertrochanteric, and subtrochanteric fractures	All faculty
	Group 1: Landwasser 8	L Ochoa Olvera, M Verhofstad
	Group 2: Landwasser 10	P Rego, A Aprato
	Group 3: Landwasser 12	H Summers, A Kritsaneephaiboon
	Group 4: Lecture room	J Maria Muñoz Vives, S Khaled

12:00–13:30	Lunch break	
Universal Learning Module—Fragility Fractures Moderators: JW Kim, U Stöckle Fragility fractures of the hip		
13:30–13:35	Welcome and introduction to the module	JW Kim, U Stöckle
13:35–13:45	Fragility fractures—what is the problem?	E Fantin
13:45–13:55	Preoperative optimization and timing of surgery—perioperative management	J Nicholas
13:55–14:05	How to improve stability in hip fractures with poor bone quality?	C Kammerlander
14:05–14:15	Question and answer session	
14:15–14:20	Location change to practical exercise room Parsenn	
14:20–15:40	Practical exercise Proximal femoral fracture— fixation with TFNA FNS demonstration	A Alyami, JW Kim All faculty
15:40–15:55	Coffee break and location change to discussion groups	
15:55–16:55	Discussion group Fragility fractures of the proximal femur Group 1: Landwasser 8 Group 2: Landwasser 10 Group 3: Landwasser 2 Group 4: Lecture room Sertig	A Alyami, C Kammerlander H Doshi, U Stöckle S Kulkarni, H Kreder E Fantin, H Hoekstra
16:55–17:00	Location change to lecture room Sertig	
17:00–17:10	Case-based lecture—periprosthetic and peri-implant fractures around the hip—how to treat it?	H Kreder
17:10–17:20	Orthogeriatric co-management/geriatric trauma center—10 important factors	O Kögler
17:20–17:30	Summary, evaluation, and take-home messages	JW Kim, U Stöckle

Tuesday

December 5, 2023

Module 2

Moderator: S Khaled, H Summers

Replacement for femoral neck fractures

08:00–08:15	Partial or total hip replacement?	J Learned
08:15–08:30	Anterior versus posterior approach	S Khaled
08:30–08:45	Challenges and complication in arthroplasty after fractures	B Crist
08:45–08:50	Location change to discussion groups	
08:50–10:05	Discussion group 2 Replacement for femoral neck fractures and their challenges	All faculty
	Group 1: Landwasser 8	H Summers, M Verhofstad
	Group 2: Landwasser 10	B Crist, A Aprato
	Group 3: Landwasser 12	F Randelli, J Maria Muñoz Vives
	Group 4: Lecture room	J Learned, S Khaled
10:05–10:20	Coffee break	

Module 3

Moderator: B Crist, P Rego

Hip preservation

10:20–10:35	Overview on developmental dysplasia of the hip (DDH) From diagnosis to treatment indications	A Aprato
10:35–10:50	Bernese periacetabular osteotomy (PAO) for DDH	B Crist
10:50–11:05	Bernese PAO for other deformities	P Rego

Tuesday (cont.)

December 5, 2023

11:05–11:20	Overview on femoroacetabular impingement syndrome (FAIS) From diagnosis to treatment indications	J Learned
11:20–11:35	Open treatment of FAIS—safe surgical dislocation (SSD)	P Rego
11:35–11:50	Arthroscopic treatment of FAIS	F Randelli
11:50–12:05	Avascular necrosis of the hip (AVN) Diagnosis and treatments (Pre-recorded Presentation)	T Sawaguchi
12:05–12:20	Slipped capital femoral epiphysis (SCFE) Diagnosis and treatments	P Rego
12:20–12:40	Question and answer session	
12:40–14:00	Lunch break	
14:00–14:30	Re-live surgery—PAO	B Crist
14:30–15:00	Re-live surgery—SSD	P Rego
15:00–15:45	Panel discussion—Hip Preservation	
15:45–16:05	Coffee break	
16:05–17:00	Discussion group 3 DDH, FAIS, AVN Group 1: Landwasser 8 Group 2: Landwasser 10 Group 3: Landwasser 12 Group 4: Lecture room	All faculty A Aprato, M Verhofstad B Crist, S Khaled H Summers, J Learned P Rego, F Randelli

Wednesday

December 6, 2023

Module 4

Moderator: M Verhofstad, J Maria Muñoz Vives

Nonunion and malunion

08:00–08:15	Nonunion around the hip— from the neck to subtrochanteric fractures (Pre-recorded Presentation)	T Sawaguchi
08:15–08:30	Treatment of the deformity—nail versus plate	H Summers
08:30–08:45	Question and answer session	

Module 5

Moderator: Apipop Kritsaneephaiboon, Luis Ochoa Olvera

Periprosthetic fractures

08:45–09:00	Periprosthetic fractures (PPFs)— classification and planning	L Ochoa Olvera
09:00–09:15	Fixation in PPFs	J Maria Muñoz Vives
09:15–09:30	Revision in PPFs	M Verhofstad
09:30–09:45	Question and answer session	
09:45–10:05	Coffee break	
10:05–11:30	Discussion group 4 Nonunion, malunion and periprosthetic fractures Group 1: Landwasser 8 Group 2: Landwasser 10 Group 3: Landwasser 12 Group 4: Lecture room	All faculty L Ochoa Olvera, M Verhofstad A Kritsaneephaiboon, B Crist H Summers, J Learned J Maria Muñoz Vives, F Randelli
11:30–11:35	Location change to lecture room	

Wednesday (cont.)

December 6, 2023

11:35–12:35	Participants cases— my worst / my most challenging case With Panel Interaction	
12:35–13:30	Lunch break	
ULM—Infection		
Moderators: C Sancineto, JK Oh		
Treatment of acute and chronic fracture-related infections		
13:30–13:35	Welcome and introduction to the module	C Sancineto, JK Oh
13:35–14:25	Case-based plenary session <ul style="list-style-type: none">• Diagnosis• Biofilm• When to retain and when to remove implants• Local antibiotics• Antibiotic duration• Question and answer session	I Gril N Kanakaris M Schütz M Wajid M Azi All faculty
14:25–15:05	Case-based plenary session—techniques <ul style="list-style-type: none">• Debridement• Antibiotic nail• External fixation and bone transport• Plenary case discussion	P Caba Doussoux A Vallejo Diaz JK Oh All faculty
15:05–15:20	Coffee break	
15:20–16:00	Discussion group Treatment of acute and chronic fracture-related infections Group 1: Landwasser 8 Group 2: Landwasser 10 Group 3: Landwasser 12 Group 4: Lecture room Sertig	All faculty I Gril N Kanakaris M Sirkin, M Wajid, A Vallejo Diaz M Schütz, M Azi, C Sancineto
16:00–16:05	Location change to lecture room Sertig	
16:05–17:30	Practical exercise (lecture room Sertig) Complex deformity planning—Osteomy	J Learned, B Crist
17:30–17:50	Discussion, summary, evaluation, and take-home messages	C Sancineto, JK Oh

Thursday

December 7, 2023

Morning lab / afternoon ULM

07:30–07:50	Transfer to the hospital Meeting point Davos Congress Centre main entrance (07:30)
07:50–08:00	Preparation for the anatomical specimen laboratory
08:00–09:30	Anatomical specimen laboratory 1 (Part 1) Chairs: P Rego, B Crist, J Learned <ul style="list-style-type: none">• Smith Petersen approach—femoral neck plating J Learned• Gibson approach and SSD P Rego• Femoral head fracture—reduction and fixation B Crist• Labral reconstruction B Crist
09:30–10:00	Coffee break
10:00–11:30	Anatomical specimen laboratory 1 (Part 2) Chairs: P Rego, B Crist, J Learned <ul style="list-style-type: none">• Smith Petersen approach—femoral neck plating J Learned• Gibson approach and SSD P Rego• Femoral head fracture—reduction and fixation B Crist• Labral reconstruction B Crist
11:30–12:00	Transfer to the Davos Congress Centre Meeting point hospital main entrance (11:30)
12:00–13:30	Lunch break

Thursday (cont.)

December 7, 2023

Universal Learning Module—Nonunion and Malunion

Moderator: M Berlusconi, AH Massoud

Hip

13:30–13:35	Welcome and introduction to the module	M Berlusconi, AH Massoud
13:35–13:50	Case-based lecture—femoral neck nonunion	W Alsaadan
13:50–14:05	Case-based lecture—subtrochanteric nonunion	P Rommens
14:05–14:15	The protruding implants—hip salvage?	T Weber
14:15–14:25	Periprosthetic nonunion	M Berlusconi
14:25–14:30	Location change to discussion groups	
14:30–15:20	Discussion group How to solve a proximal femoral malunion Group 1: Landwasser 8 Group 2: Landwasser 10 Group 3: Landwasser 12 Group 4: Lecture room Sertig	All faculty A Alsaadan T Weber P Rommens M Berlusconi
15:20–15:40	Coffee break	
15:40–16:30	Discussion group Nonunion in periprosthetic fractures Group 1: Landwasser 8 Group 2: Landwasser 10 Group 3: Landwasser 12 Group 4: Lecture room Sertig	All faculty A Alsaadan T Weber P Rommens M Berlusconi
16:30–16:35	Location change to practical exercise room Parsenn	
16:35–17:50	Practical exercise Pauwels' osteotomy	All faculty W Alsaadan
17:50–17:55	Summary, evaluation, and take-home messages	M Berlusconi, AH Massoud

Friday

December 8, 2023

Morning Lab

07:00–07:20	Transfer to the hospital Meeting point Davos Congress Centre main entrance (07:00)
07:20–07:30	Preparation for the anatomical specimen laboratory
07:30–09:00	Anatomical specimen laboratory 2 (Part 1) Chairs: H Summers, A Aprato, F Randelli <ul style="list-style-type: none">• Pawels osteotomy H Summers• Watson-Jones approach F Randelli• Femoral Head Reduction (only demonstration) A Aprato• Medial approach A Aprato• Hip Dissection All faculty
09:00–09:30	Coffee break
09:30–11:00	Anatomical specimen laboratory 2 (Part 2) Chairs: H Summers, A Aprato, F Randelli <ul style="list-style-type: none">• Pawels osteotomy H Summers• Watson-Jones approach F Randelli• Femoral Head Reduction (only demonstration) A Aprato• Medial approach A Aprato• Hip Dissection All faculty
11:00–11:30	Question and answer session
11:30–11:50	Summary of the course, evaluation, and take-home messages
11:50–12:30	Sandwich lunch (at the hospital)

Event organization

Organization

AO Foundation

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Participants' contact:

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Registration fee

CHF 4350

The registration fee covers the following:

- Course materials
- Coffee breaks and lunches
- AO Davos Courses opening ceremony
- Networking with participants and faculty during AO Davos Courses night
- Guided tour of the AO Center (on-site registration required)
- Demonstrations of the latest technologies
- Live surgical demonstrations
- Course certificate

Cancellation policy

Cancellation policy: 50% until 30 days before the event. No refund thereafter.

Online registration

[Link](#)



Language

English

European CME accreditation

For this event the UEMS-EACCME® in Brussels have granted 32.5 European CME credits (ECMEC).

Disclosures and conflicts of interest (COI)

Disclosure information and potential conflicts of interest (COI) can be viewed at the event webpage: [Link](#)

Venue and opening times

Davos Congress Centre

Talstrasse 49A
7270 Davos Platz
Switzerland
Phone +41 81 414 62 00

The AO experience

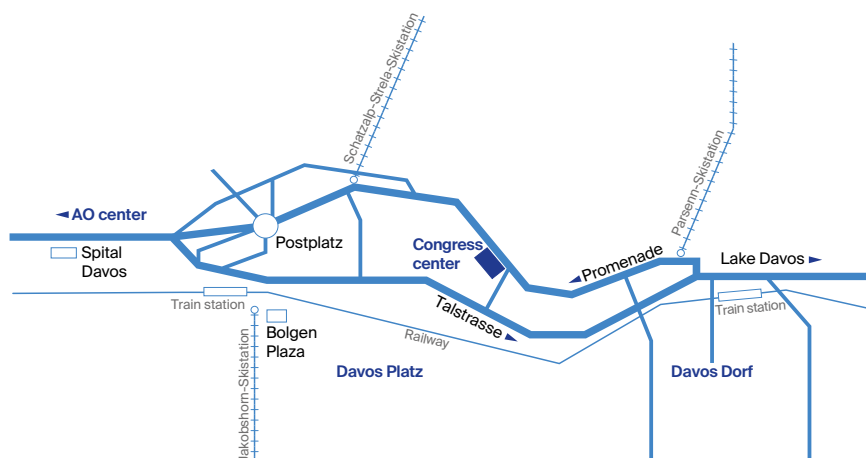
Sunday	14:00-17:00
Monday through Thursday	09:00-18:00
Tuesday	09:00-20:30
Friday	09:00-15:30

General information

Sunday	12:00-19:00
Monday through Thursday	07:30-18:00
Friday	07:30-16:00

Industry exhibition

Sunday	14:00-17:00
Monday through Thursday	09:00-18:00
Friday	09:00-13:00



General information

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/skills training if educationally needed.

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. Check hazards and legal restrictions on 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 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 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.

Use of social media

During the AO Davos Courses 2023, you can post about your experience using the [#AODavosCourses](https://twitter.com/AODavosCourses) hashtag. While we encourage you to share your AO Davos Courses 2023 experience with your online network, it is expressly forbidden to share any images or recordings from inside the course.

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 accident, 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.

Picture gallery

Check out aodavoscourses.org for a daily selection of pictures from the AO Davos Courses 2023, the best from last year's courses, and a selection of photographs from the first-ever AO Davos Courses.

Dress code

Warm clothes and suitable shoes are recommended.

Exhibitions

Your AO experience

In the AO experience area, you can browse the latest publications in the AO library, explore the benefits you are eligible for in the community and membership space, and discover AO teaching and learning resources at the AO digital zone interactive stations.

Gain further insight into AO research and innovations, test your skills with our digitally enhanced hands-on surgical training, and experience the AO Fracture Monitor and Biphasic Plate DF for next-generation dynamic plating. Learn more about myAO, AO Global Data, and our Flexible 3D-printed Fracture Model.

Experience the AO spirit, walk the timeline of AO history, purchase mementos at the AO store, and mingle with other participants.

AO staff will be happy to help you get the most out of your AO experience.

Exhibition partners

Visit the exhibitions of our trusted partner DePuy Synthes, Siemens, and other exhibitors: AO Alliance, PAUL HARTMANN AG, RIMASYS, SYNBONE

Acknowledgments

In-kind support

The AO Foundation gratefully acknowledges in-kind support for equipment and technical staff from DePuy Synthes.

Educational grants

The AO Foundation receives educational grants from Synthes GmbH and Siemens Healthineers.

Exhibitors

AO Alliance, PAUL HARTMANN AG, RIMASYS, SYNBONE

Hygiene guidelines for AO educational events

General protective measures must be observed throughout the event

- Routine cleaning and disinfection of frequently touched surfaces
- Frequent hand hygiene (when entering and exiting rooms)
- Hand disinfectants must be provided at each door
- Respiratory etiquette (proper coughing etiquette, etc.)

At anatomical practical-exercise stations

- Personal protective equipment (PPE): surgical face masks and non-sterile, latex-free examination gloves must be worn by all participants and faculty
- Surgical face masks and gloves must be stocked in sufficient numbers, and made available at the entrance of practical-exercise rooms
- All PPE must be disposed of after the end of the practical-exercise session in a dedicated place. New PPE must be used for subsequent sessions
- All instruments must be disinfected (sprayed) after the practical exercise is completed
- Participants re-use the same station for the full duration of the event
- If necessary, adapt the quantity of workstations per table to meet space requirements

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:

- Medtech Europe Guidelines on Interactions with Healthcare Professionals (www.medtecheurope.org)
- Advamed Code of Ethics on Interactions with Health Care Professionals (www.advamed.org)
- Mecomed Guidelines on Interactions with Healthcare Professionals (www.mecomed.com)

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 practical sessions

In case practical sessions are chosen as an educational method to educate skills, the technologies and products used have been approved or reviewed by the AO Technical Commission—a large independent group of volunteer surgeons developing and peer-reviewing new technology on behalf of the AO Foundation.

Any technology and/or products used in the practical sessions of this event have been found suitable to serve the defined educational purposes.

This does not imply any statement about its use and performance in actual clinical scenarios.

More information on the AO Technical Commission can be found on the AO's website: www.aofoundation.org/tc.

5. Personnel

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

AO Research Institute Davos (ARI)

Mission

The AO mission is promoting excellence in patient care and outcomes in trauma and musculoskeletal disorders.

AO Research Institute Davos (ARI)

In its work to further the AO mission, ARI's purpose is to advance patient care through innovative orthopedic research and development.

Orthopedics concerns musculoskeletal, spine and craniomaxillofacial trauma, degenerative musculoskeletal diseases, infections, and congenital disorders.

Goals

- Contribute high-quality, applied preclinical research and development focused toward clinical applications/solutions.
- Investigate and improve the performance of surgical procedures, devices and substances.
- Foster a close relationship with the AO medical community, academic societies, and universities.
- Provide research environment/support/training for AO clinicians.

Meet with our team including our ARI Medical Research Fellows, establish contacts, freely discuss your clinical problems and ideas, and learn about the latest results from ARI.

Collaborative research programs

- Annulus fibrosus rupture
- Acute cartilage injury
- Osteochondral defect

Craniomaxillofacial

- Imaging and planning of surgery, computer aided preoperative planning
- Medication-related osteonecrosis of the jaw
- Bone regeneration and 3D printing

Spine

- Degeneration and regeneration of the intervertebral disc
- Biomarkers and patient outcomes

Trauma

- Bone infection, including the development and testing of active anti-infective interventions
- Sensing implants for objective monitoring of fracture healing
- Development of smart surgical tools
- New implant concepts for optimized bone healing
- Prediction of subject-specific risk of proximal humeral fixation failure via computational tools
- Development of generic Asian pelvic bone model
- Patient outcomes and biomarkers

Veterinary medicine

- Improving osteosynthesis for small and large animals

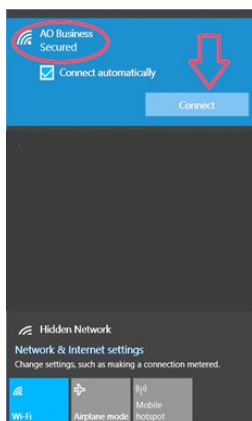
Multidisciplinary

- 3R principles: refinement of preclinical studies
- Bioreactor culture systems and mechanobiology
- Development, standardization, optimization, and improvement of preclinical models and methods
- Ex vivo testing using advanced biomechanical models
- Gene transfer: non-viral and viral
- Implant design using the finite element methods
- Implant positioning assistance, C-arm guided implant placement
- In-vivo and in-vitro quantification of bone turnover and scaffold degradation
- Medical additive manufacturing and biofabrication
- Medical computed tomography (CT) image processing and analysis
- Polymers to deliver cells and biological factors, create potential space for tissue development, and guide the process of tissue regeneration
- Prototype development and production
- Stem cell therapies for the treatment of bone, intervertebral disc, and cartilage defects

Wireless network

How to connect to the AO wireless local area network (LAN)

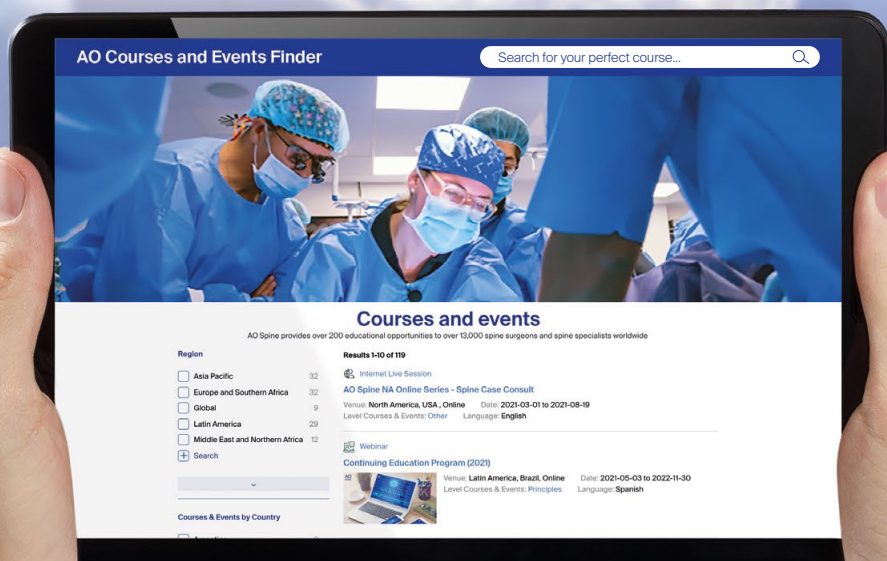
1. Open the Wireless Network Connection window
2. Choose the **AO Business** network as shown in the printscreen below and click on the **Connect** button
3. Our **AO Business** wireless network requires a wireless protected access (WPA) network key:
Network key: **aowireless**



Then click on the OK button



Find your next learning activity



Enhance your career, improve your knowledge, skills and network with the world's leading education provider to health care professionals working in the fields of trauma and musculoskeletal disorders.

Choose from over 800 events each year including face-to-face hands-on surgical skills courses, seminars, and case discussion workshop groups as well as online courses, webinars, panel discussions and more. Courses can be filtered by specialty, country, topic and level.

Create your own learning schedule and find your next learning activity with the AO course and event finder.



AO Trauma



AO Spine



AO CMF



AO Recon



AO VET



AO Sports



Transforming
Surgery—
Changing
Lives

www.aofoundation.org/our-courses-and-events/course-finder

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More information at
www.aofoundation.org