

AO Sports Course— Principles of Sports Medicine—The Joint is an Organ

December 7-8, 2022
Davos, Switzerland

Lecture room:
Flüela

PROGRAM

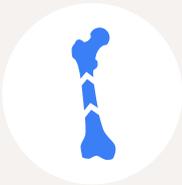


Mission

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.

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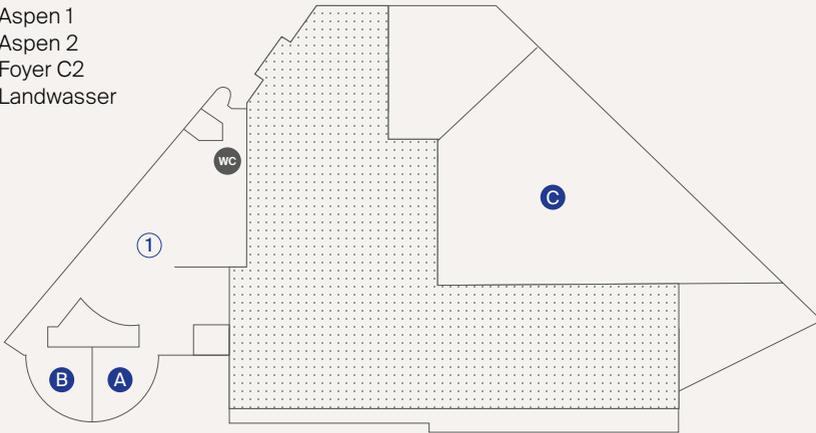
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Floorplan

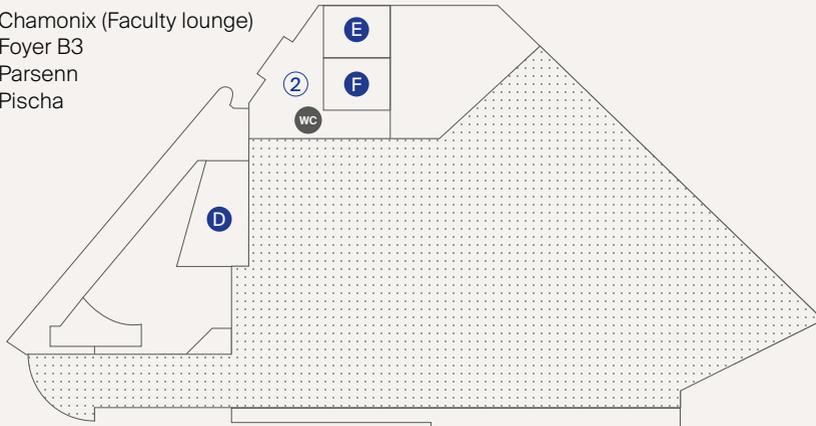
Level Promenade

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

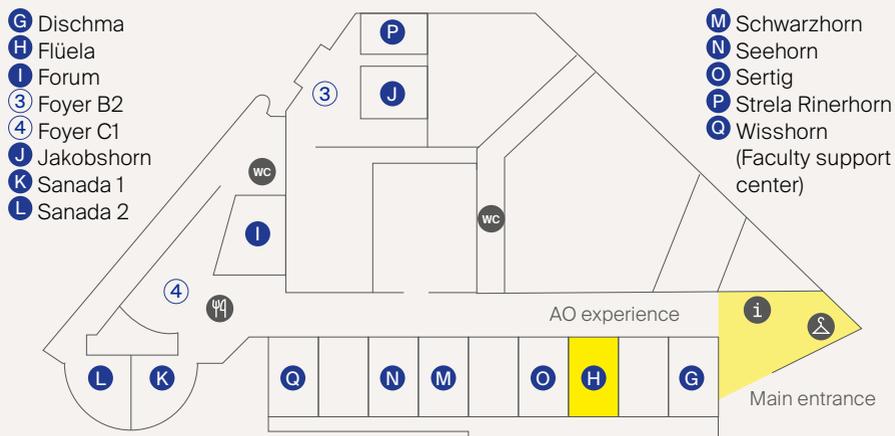


Level Mezzanine

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



Level Kurpark



Level Talstrasse



Welcome

Dear AO Sports course participant,

Welcome to the AO Sports Course—Principles of Sports Medicine: The Joint Is an Organ, which is planned and delivered to meet your needs by using a competency-based curriculum approach and the AO's seven principles for high-quality education.

Welcome to the AO Sports educational activity at the AO Davos Courses 2022. It is great to have you in Davos, Switzerland, after the disruption experienced due to the pandemic last year. We hope you will enjoy the experience of returning to face-to-face, on-site education! With a global reputation for innovation, leadership, and excellence in continuing medical education (CME), AO Sports 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.aofoundation.org to see the latest educational activities.

At the AO Davos Courses 2021, the AO 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 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 this week and would like to stay in touch, we invite you to become an AO member. If you wish to stay informed about AO Sports, please contact us to find out more sports@aofoundation.org or visit us on: www.aofoundation.org/Our-services-and-resources/AO-Sports

Yours sincerely,



Saeed Al Thani
Chairperson



Christoph Katthagen
Chairperson



Jim Stannard
Chairperson AO Sports

P.S 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.

Course description

This 2-day course introduces the principles of sports injuries through a variety of interactive educational modalities. Using arthroscopic simulations and practical exercises, 3D-animated tours, and case discussions, this course addresses all fundamental aspects of sports medicine, from anatomy and biomechanics to principles of arthroscopy, fixation strategies, and rehabilitation protocols. Modules and small group discussions will be moderated by world-renowned, expert faculty, and participants will have the opportunity to interact and discuss cases with them. This course is the stepping stone to AO Sports Advanced and Masters courses.

Goal of the course

The goal of this educational event is to teach the fundamental principles of sports medicine, with focus on the knee and shoulder. It is critical to recognize that the joint works as “an organ system.” Applied knowledge of knee and shoulder anatomy and biomechanics will assist in the diagnosis and management of sports injuries. Participants will achieve technical competency in the arthroscopic and open treatment of common knee and shoulder pathology.

Target participants

This course is targeted to attending orthopedic surgeons, sports medicine fellows, and residents seeking to gain experience in diagnosis and management of sports medicine conditions.

Learning objectives

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

- Appreciate the unique anatomy and biomechanics of intra- and extraarticular structures around the knee and shoulder
- Perform a thorough and systematic history and physical examination and review pertinent imaging studies, taking into consideration joint, limb, and patient-specific factors
- Formulate a treatment plan based on a focused problem list for common knee and shoulder sports injuries
- Comprehend the principles of sports medicine fixation strategies
- Perform standard arthroscopic procedures for sports medicine application and be familiar with open procedures for the knee and shoulder joint
- Apply the principles of sports medicine rehabilitation and return to play



Chairpersons



Christoph Katthagen
Uniklinikum Münster,
Münster, Germany



Saeed Al Thani
Mediclinic Middle East,
Dubai, United Arab Emirates

Faculty

Andrea Achtnich

Klinika Rechts der Isar, Munich, Germany

Brent Ponce

Hughston Clinic, Columbus, United States

James P. Stannard

University of Missouri Health Care-Columbia, Columbia, United States

Matthias Königshausen

BG Universitätsklinik Bergmannsheil, Bochum, Germany

Vonda Wright

Lake Nona Performance Club, Orlando, United States

Raid Abu Talib

Prince Mohammad bin Abdulaziz National Guard Hospital, Al Madinah, Saudi Arabia

Richard Glaab

Kantonsspital Aarau AG, Aarau, Switzerland

Usama H. Saleh

Medcare Orthopedic and Spine Hospital, Dubai, United Arab Emirates

Wednesday

December 7, 2022

Location: Flüela, Davos Congress Centre

07:15–08:00	Registration	
08:00–08:10	Welcome and introduction to the course	S Al Thani, C Katthagen

Module 1

Moderator: J Stannard

The joint is an organ—anatomy and biomechanics

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

- Describe the unique anatomy around the knee and shoulder joints
 - View the joint as an organ
 - Consider the interplay of joint tissues to ensure normal joint function
-

08:10–08:30	Virtual tour of the knee	J Stannard
08:30–08:40	Plenary presentation—the joint is an organ	J Stannard
08:40–09:00	Arthroscopic tour of the shoulder	C Katthagen

Module 2 (Breakout sessions)

Moderator: C Katthagen

Patient evaluation, imaging, and classification

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

- Perform a thorough history and physical examination
 - Identify the various imaging modalities available
 - Use a classification system that supports decision-making and patient outcomes
 - Evaluate joint function
 - Demonstrate common knee and shoulder examination techniques
-

09:00–09:15	Patient history, imaging, and classification systems for sports injuries	V Wright
09:15–09:20	Location change to breakout rooms	

Wednesday

December 7, 2022

09:20–10:40	Practical exercise 1 Knee and shoulder examinations (80 minutes) Groups A and B: Flüela	Moderator: S Al Thani Faculty: C Katthagen
	Groups C and D: spend 40 minutes in each Landwasser room, then switch. Small group discussion 1 Common knee injuries (40 minutes) Group C: Landwasser 16	Moderator: J Stannard Faculty: R Glaab
	Small group discussion 2 Common shoulder injuries (40 minutes) Group D: Landwasser 18	Moderator: B Ponce Faculty: R Abu Talib
10:40–11:00	Coffee break and location change	
11:00–12:20	Practical exercise 1 Knee and shoulder examinations (80 minutes) Groups C and D: Flüela	Moderator: S Al Thani Faculty: R Glaab
	Groups A and B spend 40 minutes in each Landwasser room, then switch rooms. Small group discussion 1 Common knee injuries (40 minutes) Group A: Landwasser 16	Moderator: J Stannard Faculty: M Königshausen
	Small group discussion 2 Common shoulder injuries (40 minutes) Group B: Landwasser 18	Moderator: C Katthagen Faculty: U Saleh
12:20–13:10	Lunch break	

Module 3 (Breakout sessions)

Moderator: S Al Thani

Principles of surgical setup, arthroscopy, and fixation techniques

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

- Describe the different options for patient positioning
 - Describe the use and functionality of standard arthroscopic equipment
 - Set up the operating room for common knee and shoulder procedures
 - Demonstrate competency in basic arthroscopic techniques
 - Identify the various portals for common knee and shoulder procedures
 - Counsel patients, families, and coaches about goals and expectations
-

13:10–15:10	Small group discussion 3 Knee and shoulder (operating room setup, patient positioning, principles of arthroscopy, portals, and approaches) Groups A and B: Flüela	Moderator: S Al Thani Faculty: B Ponce
	Group C and D spend 60 minutes in each practical exercise room, then switch rooms. Practical exercise 2 Knee—basic and arthroscopic skills (60 minutes) Group C: Pischa	Moderator: V Wright Faculty: A Achtnich
	Practical exercise 3 Shoulder—basic and arthroscopic skills (60 minutes) Group D: Studio	Moderator: U Saleh Faculty: C Katthagen
15:10–15:30	Coffee break and location change	
15:30–17:30	Small group discussion 3 Knee and shoulder (operating room setup, patient positioning, principles of arthroscopy, portals, and approaches) Groups C and D: Flüela	Moderator: R Glaab Faculty: A Achtnich
	Groups A and B spend 60 minutes in each practical exercise room, then switch rooms. Practical exercise 2 Knee—basic and arthroscopic skills (60 minutes) Group A: Pischa	Moderator: M Königshausen Faculty: V Wright
	Practical exercise 3 Shoulder—basic and arthroscopic skills (60 minutes) Group B: Studio	Moderator: R Abu Talib Faculty: U Saleh
17:30–17:35	Location change to lecture room	
17:35–17:45	Counseling for player, coach, and family	V Wright
17:45–18:00	Summary, evaluation, and take-home messages	C Katthagen, S Al Thani

Thursday

December 7, 2022

Module 4

Moderator: S Al Thani

Arthroscopic and open approaches for knee and shoulder

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

- Describe arthroscopic procedures for knee and shoulder
- Describe open procedures for knee and shoulder and their indications
- Define the principles of rehabilitation

08:00–08:05	Reflection on day 1, plan for day 2	S Al Thani, C Katthagen
08:05–08:15	Arthroscopic procedures–knee	R Glaab
08:15–08:25	Open procedures–knee	M Königshausen
08:25–08:35	Arthroscopic procedures–shoulder	R Abu Talib
08:35–08:45	Open procedures–shoulder	U Saleh
08:45–08:55	Rehabilitation protocols	B Ponce
08:55–09:05	Question and answer session	C Katthagen, S Al Thani
09:05–09:10	Location change to breakout rooms	

Module 5 (Breakout sessions)

Moderator: C Katthagen

Joint-specific surgical techniques and rehabilitation

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

- Discuss standard treatment of meniscus and cartilage disorders
 - Summarize rehabilitation protocols and when to use them
 - Recognize signs and causes of complications
 - Describe techniques to manage complications
 - Evaluate and manage common knee injuries
 - Evaluate and manage common shoulder injuries
-

09:10–10:40	<p>Small group discussion 4 Knee (treatment, rehab, return-to-play protocols, pearls, pitfalls, and complications, 90 minutes) Group A: Landwasser 16</p>	<p>Moderator: A Achtnich Faculty: M Königshausen</p>
	<p>Small group discussion 5 Shoulder (treatment, rehab, return-to-play protocols, pearls, pitfalls, and complications, 90 minutes) Group B: Landwasser 18</p>	<p>Moderator: C Katthagen Faculty: U Saleh</p>
	<p>Practical exercise 4 Dry-bone exercises—knee (90 minutes) Group C: Pischa</p>	<p>Moderator: R Glaab Faculty: V Wight</p>
	<p>Practical exercise 5 Dry-bone exercises—shoulder (90 minutes) Group D: Studio</p>	<p>Moderator: S Al Thani Faculty: R Abu Talib</p>
10:40–11:00	Coffee break and location change	
11:00–12:30	<p>Small group discussion 4 Knee (treatment, rehab, return-to-play protocols, pearls, pitfalls, and complications, 90 minutes) Group B: Landwasser 16</p>	<p>Moderator: V Wright Faculty: M Königshausen</p>
	<p>Small group discussion 5 Shoulder (treatment, rehab, return-to-play protocols, pearls, pitfalls, and complications, 90 minutes) Group A: Landwasser 18</p>	<p>Moderator: C Katthagen Faculty: U Saleh</p>
	<p>Practical exercise 4 Dry-bone exercises—knee (90 minutes) Group D: Pischa</p>	<p>Moderator: J Stannard Faculty: A Achtnich</p>
	<p>Practical exercise 5 Dry-bone exercises—shoulder (90 minutes) Group C: Studio</p>	<p>Moderator: B Ponce Faculty: S Al Thani</p>
12:30–13:20	Lunch break	

Thursday

December 7, 2022

13:20-14:50	Small group discussion 4 Knee (treatment, rehab, return-to-play protocols, pearls, pitfalls, and complications, 90 minutes) Group C: Landwasser 16	Moderator: R Glaab Faculty: J Stannard
	Small group discussion 5 Shoulder (treatment, rehab, return-to-play protocols, pearls, pitfalls, and complications, 90 minutes) Group D: Landwasser 18	Moderator: B Ponce Faculty: R Abu Talib
	Practical exercise 4 Dry-bone exercises—knee (90 minutes) Group A: Pischa	Moderator: A Achtnich Faculty: V Wright
	Practical exercise 5 Dry-bone exercises—shoulder (90 minutes) Group B: Studio	Moderator: S Al Thani Faculty: B Ponce
14:50-15:05	Coffee break and location change	
15:05-16:35	Small group discussion 4 Knee (treatment, rehab, return-to-play protocols, pearls, pitfalls, and complications, 90 minutes) Group D: Landwasser 16	Moderator: J Stannard Faculty: R Glaab
	Small group discussion 5 Shoulder (treatment, rehab, return-to-play protocols, pearls, pitfalls, and complications, 90 minutes) Group C: Landwasser 18	Moderator: R Abu Talib Faculty: B Ponce
	Practical exercise 4 Dry-bone exercises—knee (90 minutes) Group B: Pischa	Moderator: M Königshausen Faculty: A Achtnich
	Practical exercise 5 Dry-bone exercises—shoulder (90 minutes) Group A: Studio	Moderator: C Katthagen Faculty: U Saleh
16:35-16:40	Location change to lecture room	
16:40-16:50	Summary, evaluation, and take-home messages	S Al Thani, C Katthagen
16:50	End of course	

Event organization

AO Foundation

Selina Ziswiler
Clavadelerstrasse 8
7270 Davos Platz, Switzerland
Phone +41 79 744 39 10
E-mail selina.ziswiler@aofoundation.org

Participants' contact:

AO Global Events Services
E-mail aoges.emea@aofoundation.org

Registration fee

AO Sports Principles Course—The Joint is an Organ: CHF 2,300
Included in the course fee are documentation, coffee breaks, lunches, participation in AO Davos Courses night (networking event), and the course certificate.

Online registration

<https://sforce.co/3kzOgVe>

Language

English

Disclosures and conflicts of interest (COI)

Disclosure information and potential conflicts of interest (COI) can be viewed at the event webpage.

European CME accreditation

An application has been made to the UEMS-EACCME® in Brussels, Belgium, for CME accreditation of this event. For this event the UEMS-EACCME® in Brussels have granted 14 European CME credits (ECMEC).

Event organization compliance

In certain countries where the 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 and opening times

Davos Congress Centre

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

The AO experience

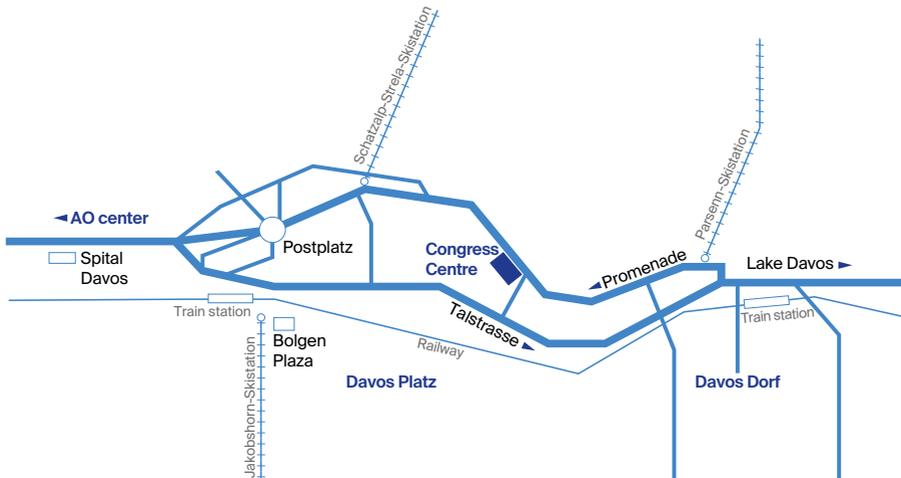
Sunday	14:00–17:00
Monday through Wednesday	09:00–18:00
Tuesday	09:00–20:30
Thursday	09:00–15:30

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 Wednesday	09:00–18:00
Thursday	09:00–15:30



General information

Evaluation guidelines

All AO events apply the same evaluation process, which includes pre- and postevent online evaluation and on-site written questionnaires. These evaluation tools help ensure that AO 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 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 2022, you can post about your experience using the [#AODavosCourses2022](https://twitter.com/AODavosCourses2022) hashtag. While we encourage you to share your AO Davos Courses 2022 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 2022, 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.

Sponsors

We thank our major industry partners, **DePuy Synthes** and **Siemens**, for contributing key in-kind support (materials and logistics), without which this event would not be possible, as well as an unrestricted educational grant.



We also extend our thanks to the following cosponsors (educational grants, in-kind support):



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 Fracture Monitor and Biphasic Plate 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:



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 (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

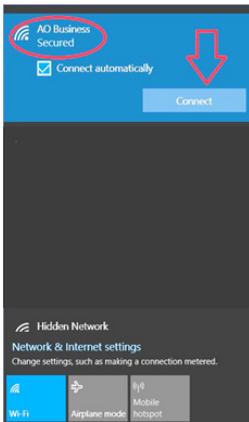
- 3R principles: refinement of preclinical studies
- Bioreactor culture systems and mechanobiology
- Development, standardization, optimization, and improvement of preclinical models and methods
- Ex vivo testing using advanced biomechanical models
- Gene transfer: non-viral and viral
- Implant design 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

For the *AO Research Institute Davos Activity Report 2020* and recent publications, go to www.aofoundation.org/ari/publications.

Wireless network

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

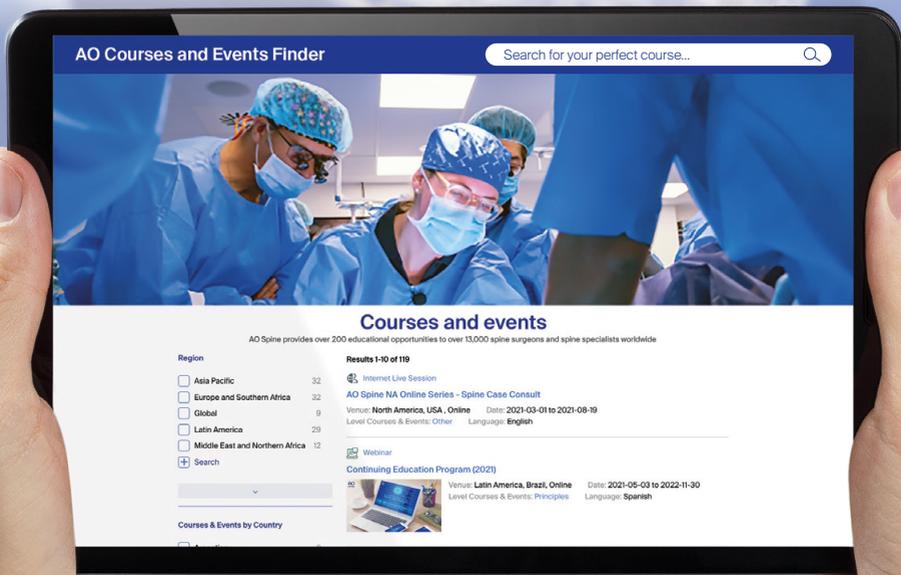
1. Open the Wireless Network Connection window
2. Choose the **AO Business** network as shown in the printscreen below and click on the **Connect** button
3. Our **AO Business** wireless network requires a wireless protected access (WPA) network key:
Network key: **aowireless**



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



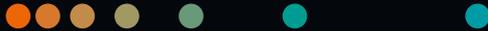
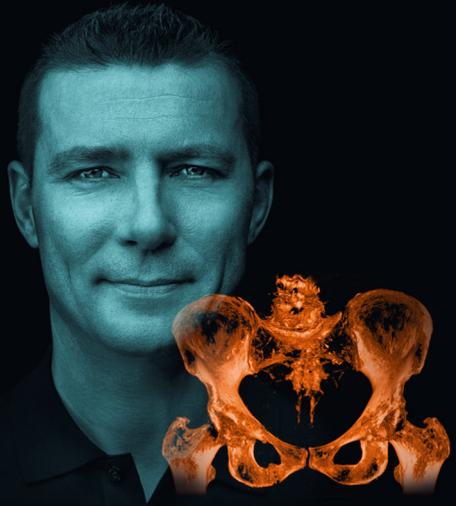
Transforming
Surgery—
Changing
Lives

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

More information at
www.aofoundation.org

Take image-guided surgery to a new level

[siemens-healthineers.com/surgery](https://www.siemens-healthineers.com/surgery)



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Take image-guided surgery to a new level through a complete imaging portfolio for orthopedic trauma, spine and CMF surgery ranging from mobile C-arms and robotic angiography systems to computed tomography and magnetic resonance imaging, as well as multi-modality suites.

As a unique robotic C-arm, ARTIS pheno® helps you transform care delivery by adding great versatility to the Hybrid OR. Ready to help you perform both standard and the most difficult approaches, ARTIS pheno® accommodates highly diverse procedures, disciplines, or patient positions.



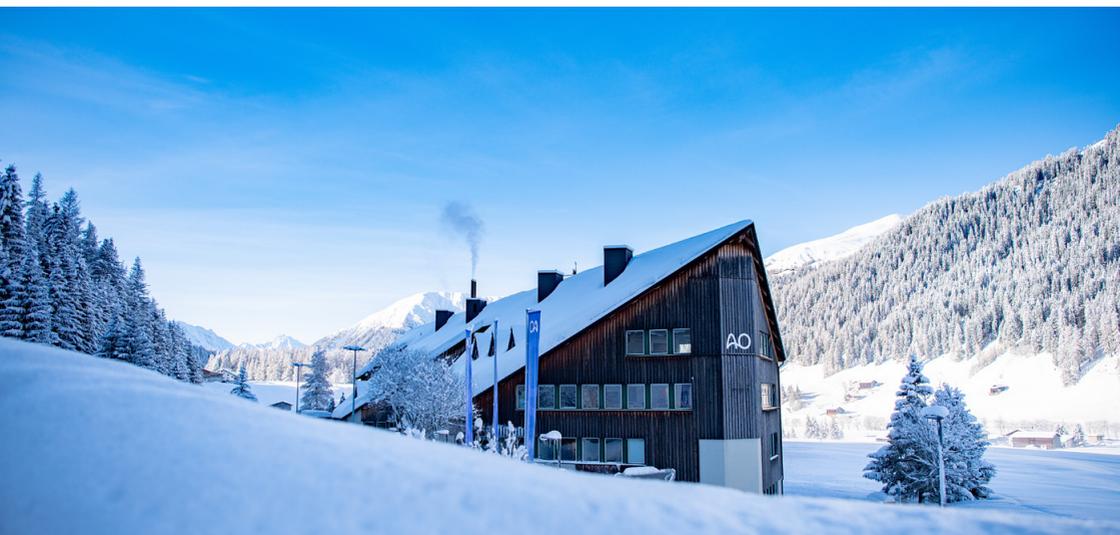
ARTIS pheno
Cutting-edge robotic imaging for multiple surgical disciplines

To provide 3D capabilities that can be seamlessly integrated into clinical routine, we developed Cios Spin®: a mobile 2D and 3D C-arm for intraoperative quality assurance. Delivering new insights and perspectives, Cios Spin gives you more certainty in surgical routine – and full control over your procedures.



Cios Spin
New perspectives. Full control.

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The AO is a medically-guided, not-for-profit organization, a global network of surgeons, and the world's leading education, innovation, and research organization specializing in the surgical treatment of trauma and musculoskeletal disorders. Today the AO has a global community of over 460,000 health care professionals in the fields of trauma, spine, craniomaxillofacial, veterinary, and reconstructive surgery. Each year the AO offers over 775 educational events globally with over 98,000 participants and supported by 7,000 faculty.



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