

AO CMF Masters Course— Mastering Orthognathic and Obstructive Sleep Apnea (OSA) Surgery

November 30–December 2, 2021
Davos, Switzerland

Lecture room:
Sanada 1

PROGRAM



Excellence
in facial surgery
across the
specialties

Mission

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

Purpose statement

Our purpose is promoting excellence in patient care and outcomes in craniomaxillofacial surgery across all specialties.

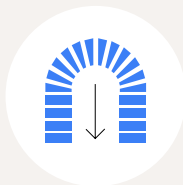
The AO principles of fracture management

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.

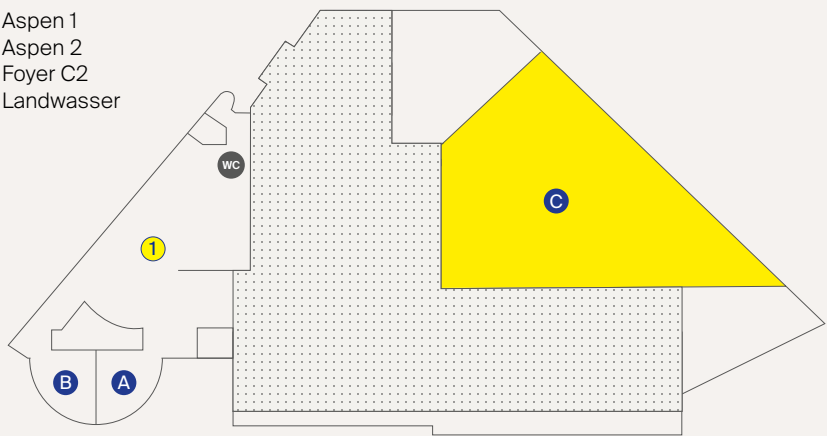
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Floorplan

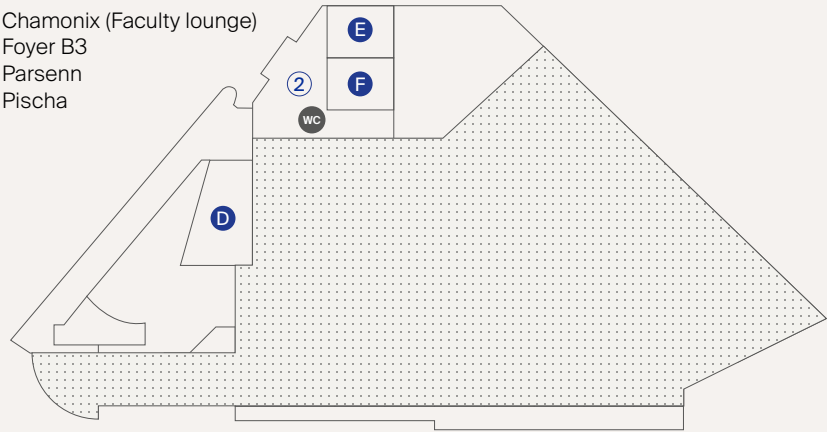
Level Promenade

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

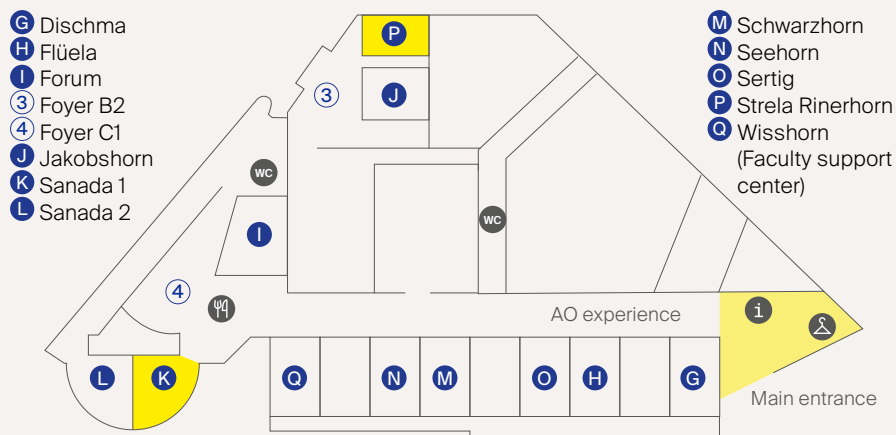


Level Mezzanine

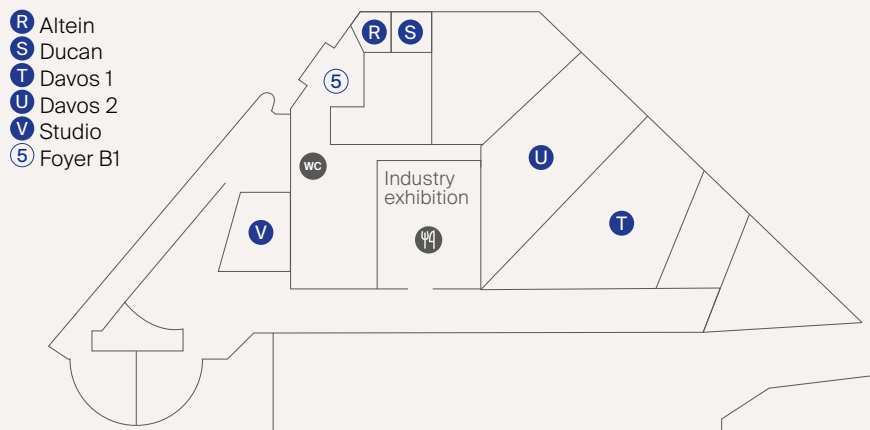
- D Chamonix (Faculty lounge)
- 2 Foyer B3
- E Parsenn
- F Pischcha



Level Kurpark



Level Talstrasse



Welcome

Dear AO CMF course participant,

On behalf of AO CMF—the craniomaxillofacial (CMF) clinical division of the AO—it is my pleasure to personally welcome you to this unique educational event.

When I attended the AO Davos Courses for the first time back in 1990, it was a turning point in my professional career. By getting to know the AO, I found an extremely valuable learning resource—and a community of friends for life. I hope your experience with us this year will be equally rewarding.

When I say community, I mean just that. AO CMF is a multidisciplinary community of clinicians of many nationalities and specialties. Today our AO CMF community has more than 2,700 members. We are at the forefront of education and new developments, including best-in-class online education, blended, and hybrid formats. We pride ourselves on offering unique learning and networking opportunities to more than 7,000 passionate surgeons worldwide every year, and in 2020 alone more than 28,000 participants benefited from our educational offering.

Through our educational activities, membership program, social media presence, and website, we aspire to encourage and inspire surgeons to pursue fulfilling careers in our field. We endeavor to provide lifelong learning opportunities and career development for interested surgeons.

Almost every aspect of CMF surgery is covered, with a major focus on best clinical practice, research, and technologies founded in competence-based education. We value your participation and encourage you to share your ideas and opinions to help build and enhance our dynamic community.

After our successful online experience in 2020—as well as our AO CMF Online Masters Course—Mastering the Nose: Advanced Midface Concepts—and almost two years of challenging times in medical practice and education, our 2021 AO CMF Davos courses programs have been carefully prepared to maximize quality and interaction with faculty and peers over the next few days to help you develop new knowledge, skills, and understanding that you can apply directly to your practice. Together, we are improving patient care by sharing knowledge and best practices as reflected in our mission statement: promoting excellence in patient care and outcomes in craniomaxillofacial surgery. In patient care and outcomes.

I wish you an outstanding learning experience!



Gregorio “Goyo” Sánchez-Aniceto
12 de Octubre Hospital, Madrid, Spain

Course description

This three-day course addresses the patient journey from preoperative planning to the management of complications, including state-of-the-art techniques and best practices at a masters-level in orthognathic and sleep apnea surgery. The focus of the course is on interactive learning about emerging technologies in planning and rapid prototyping.

The current consensus in orthognathic surgery, evidence review, and future developments will be presented.

The format includes small group discussions, plenary cases, demonstrations of emerging technologies with human anatomical specimens, other simulation materials, and summary presentations. All activities are moderated by expert faculty in a highly interactive learning environment. Participants are encouraged to discuss the cases and content in an open manner, and to share their own experiences through presentation of their own cases.

Goal of the course

The goal of this AO CMF masters course is to present participants with state-of-the-art techniques and best practices in the management of craniomaxillofacial (CMF), orthognathic, and OSA surgery. Emerging technologies will be introduced and clinical controversies will be addressed.

Target participants

This course is for certified surgeons with four or more years' experience. It is targeted at consultants, specialists, fellows, and senior trainees in the management of facial trauma.

Learning objectives

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

- Comprehensively assess and diagnose congenital and acquired deformities including OSA
- Appropriately select and apply emerging technologies in all stages of patient management
- Develop and execute individual treatment plans and customized solutions
- Evaluate and reflect on the patient outcome compared with the treatment plan
- Apply clinical, technical, and communication strategies, including secondary correction, to improve patient outcomes

Organizing Committee Chairpersons



Amir Elbarbary

Ain Shams
University,
Cairo, Egypt



Ian Sharp

University Hospital
Birmingham, Birmingham,
United Kingdom

Course chairpersons



Sabine Girod

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United States



Gabriel Pastore

Vita Institute
São Paulo, Brazil



Patricia Stoor

Helsinki University
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Helsinki, Finland

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Icahn School of Medicine at Mount Sinai

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Oxford

United Kingdom

Kathleen Fan

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London

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University of Turin

Turin

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Nicolas Homs

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Brazil

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Copenhagen

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King Abdulaziz University

Jeddah

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Santiago

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University Hospital Basel

Basel

Switzerland

Tal Yoffe

Sheba Medical Center, Tel Hashomer Hospital

Ramat Gan

Israel

Guest faculty

Samar Aboulsoud

Cairo University, Faculty of Medicine

Cairo

Egypt

José Barrera

Texas Center for Facial Plastic and Laser Surgery

San Antonio

United States

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Heinrich-Heine-Universität

Düsseldorf

Germany

Ajoy Roychoudhury

All India Institute of Medical Sciences

New Delhi

India

Alexander Schramm

University and Military Hospital Ulm

Ulm

Germany

Miriam Uhlmann

AO Foundation, AO Education Institute, Faculty Development

Zurich

Switzerland

Tuesday

November 30, 2021

07:30–08:00	Registration of participants	
08:00–08:10	Welcome and introduction	I Sharp, A Elbarbary

Module 1—part 1 (joint session with both AO CMF courses)

Moderator: S Girod, F Thieringer

Diagnostics and planning

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

- Learn indications for orthognathic surgery
- Identify indications for emerging technologies
- Perform 3D analysis of the patient problem
- Plan and simulate 3D surgical correction
- Communicate and translate clinical values in a digital workflow

08:10–08:30	Keynote lecture—computer-assisted surgery—past, present, and future	M Rana
08:30–09:15	Expert panel debate <ul style="list-style-type: none">• Principles of imaging, navigation, and planning	Panelists: M Redondo Alamillos, A Schramm, P Stoor, F Thieringer
09:15–09:30	Question and answer session	
09:30–10:00	Coffee break	

Module 1—part 2

Moderator: G Pastore

10:00–10:30	How to ensure success in surgical OSA treatment	J Barrera, R Rojas
10:30–12:00	Roundtable discussion 1 <ul style="list-style-type: none">• Pure orthognathic case, bimaxillary—no sleep apnea (maxilla or mandible first), how and why• Surgery first• Sleep apnea case diagnosis and treatment planning Table 1 Table 2 Table 3 Table 4 Table 5	All faculty A Rocha Pereira G Kanavakis J Barrera, R Rojas M Redondo Alamillos, D Dhariwal T Yoffe, F Thieringer T Kofod, P Stoor A Rocha Pereira, K Fan D Buchbinder, S Girod
12:00–13:30	Lunch break and location change to Strela/Rinerhorn	

13:30–15:00	Computer planning exercise <ul style="list-style-type: none"> • Orthognathic surgery • Sleep apnea syndrome 	All faculty D Buchbinder, K Fan, P Stoor J Barrera, R Rojas, D Dhariwal
15:00–15:30	Coffee break and location change to Landwasser	
	Discussion group 1 <ul style="list-style-type: none"> • Sleep apnea and orthognathic surgery (nasal surgery included) (treatment planning, soft tissue, aesthetics, precision planning, sequencing) • Craniofacial asymmetries (augmentation, fat implants, soft tissue, aesthetics, precision planning, sequencing) 	All faculty
15:30–16:10	Group 1: Landwasser 12 Group 2: Landwasser 14 Group 3: Landwasser 16 Group 4: Landwasser 18	J Barrera, T Yoffe, G Gerbino R Rojas, T Kofod, N Homs D Dhariwal, A Rocha Pereira, G Pastore M Nadershah, M Redondo Alamillos, K Fan
16:10–16:15	Groups switch rooms	
16:15–17:00	Group 4: Landwasser 12 Group 3: Landwasser 14 Group 2: Landwasser 16 Group 1: Landwasser 18	J Barrera, T Yoffe, G Gerbino R Rojas, T Kofod, N Homs D Dhariwal, A Rocha Pereira, G Pastore M Nadershah, M Redondo Alamillos, K Fan

Wednesday

December 1, 2021

Location: Foyer C2

Module 2

Moderators: G Gerbino, N Homs

Optimizing intraoperative performance and quality control

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

- Review surgical approaches and soft-tissue management in the bimaxillary complex, including endoscopic techniques in craniofacial surgery
 - Define the advantages of navigation and intraoperative imaging
 - Consider indications for patient-specific implants (PSI) and 3D-printed wafers
 - Review the workflow for surgical correction
 - Identify the controversies and apply appropriate treatment and rehabilitation strategies
 - Conduct difficult conversations
-

08:30–10:00 **Practical exercise 1**

- LeFort, bilateral sagittal split osteotomy (BSSO), genioplasty
- Navigation
- Nasal endoscopy
- Surgically assisted rapid palatal expansion (SARPE)

All faculty
G Gerbino, N Homs,
M Nadershah, K Fan,
P Stoor, F Thieringer
J Barrera
R Rojas

10:00–10:30 Coffee break and location change to lecture room

10:30–12:30 **Roundtable discussion 2**
Complications in communications

- Getting the best out of yourself and the team in the theater
- Who are our stakeholders?
- Surgeon communication

Moderator: M Uhlmann

Table 1
Table 2
Table 3
Table 4
Table 5

S Girod
M Nadershah
D Dhariwal
N Homs
S Aboulsoud

12:30–14:00 Lunch break

14:00–14:20	Transfer to hospital Meeting point: Davos Congress Centre main entrance (14:00)	
14:20–14:30	Preparation for anatomical specimen laboratory	
14:30–18:00	Anatomical specimen laboratory 1 <ul style="list-style-type: none"> • Bimaxillary osteotomy, turbinate reduction • Genioglossus advancement • Nasal endoscopy • Uvulopalatopharyngoplasty (UPPP) • Structural rhinoplasty, Distraction Osteogenesis Maxillary Expansion (DOME) 	All faculty A Rocha Pereira, F Thieringer, T Yoffe G Gerbino, F Thieringer J Barrera, A Rocha Pereira J Barrera, A Rocha Pereira J Barrera, M Nadershah, A Elbarbary

Module 3—part 1

Moderators: J Barrera, R Rojas

Preventing, managing, and learning from complications

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

- Discuss strategies to minimize and manage complications in the bimaxillary complex and craniofacial skeleton
- Apply strategies to improve patient outcome in secondary corrections
- Prevent posttreatment complications, secondary deformities, and functional problems
- Discuss roles of virtual reality (VR) and augmented reality (AR) in craniofacial corrective surgery.
- Consider future applications of emerging technologies
- Analyze the costs and benefits of 3D technology

09:00–09:30	Phase 1 and adjunct procedure in OSA—failure and success (UPPP, DOME, radiofrequency, hypoglossal nerve stimulation)	J Barrera
09:30–10:30	Roundtable discussion 3 <ul style="list-style-type: none"> • Risk management, complications and pitfalls in orthognathic surgery and OSA Table 1 Table 2 Table 3 Table 4 Table 5	All faculty G Gerbino, D Dhariwal F Thieringer, M Redondo Alamillos K Fan, T Kofod P Stoor, T Yoffe G Pastore, A Rocha Pereira
10:30–11:00	Coffee break and location change to Landwasser	
11:00–12:30	Discussion group 2 <ul style="list-style-type: none"> • Difficult cases in orthognathic surgery and OSA Group 1: Landwasser 12 Group 2: Landwasser 14 Group 3: Landwasser 16 Group 4: Landwasser 18	All faculty M Nadershah, G Pastore N Homsi, T Kofod R Rojas, A Rocha Pereira K Fan, M Redondo Alamillos
12:30–14:00	Lunch break with Ask the Expert session (Lunch boxes will be served in the lecture room)	

Module 3—part 2 (joint session with both AO CMF courses)

Moderators: A Elbarbary

14:00–14:20	Keynote lecture—the computer and the scalpel	I Sharp
14:20–14:50	Expert panel debate <ul style="list-style-type: none">• Pros and cons• Overcorrections on facial trauma using CAS planning• Cost/benefit risks of emerging technologies• The lost art of surgery: Do the new technologies make you a bad surgeon?	Panelists: A Elbarbary, G Pastore, A Roychoudhury, M Rana, S Parmar, B Beck-Broichsitter
14:50–15:00	Summary and evaluation	I Sharp, A Elbarbary

Event organization

AO Foundation

AO Global Networks

Maria Angela Torri
Clavadelerstrasse 8
7270 Davos Platz, Switzerland
Phone +41 79 699 22 39
E-mail maria.torri@aofoundation.org

Participants' contact:

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

Registration fee

AO CMF Masters Course—Mastering
Orthognathic and Obstructive Sleep Apnea
(OSA) Surgery: 3,400.00
Included in the course fee are coffee and
lunch breaks, cocktail reception, course
program and certificate.

Online registration

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

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

For this course the UEMS-EACCME® in
Brussels have granted 16 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	09:00–18:30
Thursday	09:00–15:30

General information

Sunday	13:00–19:00
Monday through Thursday	07:30–19:00
Friday	07:30–16:00

Industry exhibition

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



General information

Evaluation guidelines

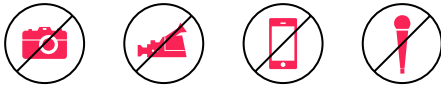
All AO CMF events apply the same evaluation process, which includes pre- and postevent online evaluation and on-site written questionnaires. These evaluation tools help ensure that AO CMF continues to meet your training needs.

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.

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.

Dress code

Warm clothes and suitable shoes are recommended.

Picture gallery

Check out aodavoscourses.org for a daily selection of pictures from the AO Davos Courses 2021, the best from last year's courses, and a selection of photographs from the first-ever AO Davos Courses.

Hygiene guidelines for AO educational events

General protective measures must be observed throughout the event

- Routine cleaning and disinfection of frequently touched surfaces
- Face masks must be worn through the entire duration of the event
- Frequent hand hygiene (when entering and exiting rooms)
- Hand disinfectants must be provided at each door
- Respiratory etiquette (use masks, proper coughing etiquette, etc.)
- Visual reminders of proper measures and etiquette must be placed at doors

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

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, discover AO teaching and learning resources at the AO digital zone interactive stations, gain further insight into AO research and innovations—including the AO Technical Commission's Meet the Experts sessions, and purchase mementos at the AO store. Experience the AO spirit, walk the timeline of AO history, and mingle with other participants. AO staff will be happy to help you get the most out of your AO experience.



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.

Business center

The business center facilities in the Congress Centre Davos are accessible to everyone.

Services

- Internet and e-mail access
- Printer access
- www.aodavoscourses.org
AO Davos Courses website offering course-related information

Opening hours

The business center is open 30 minutes before the first course of the day starts until 30 minutes after the end of the last course of the day.

Disclaimer

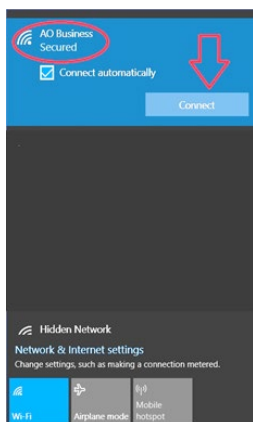
The use of your own computer in the business center network is inherently not secure. We strongly recommend that you take appropriate actions to protect your computer against unauthorized use or theft (eg, firewall, virtual private network [VPN] connection, virus scanner).
AO cannot be held responsible for any data loss or theft.

For further information or support, please contact:
Phone +41 81 414 28 70
E-mail it.helpdesk@aofoundation.org

Wireless network

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

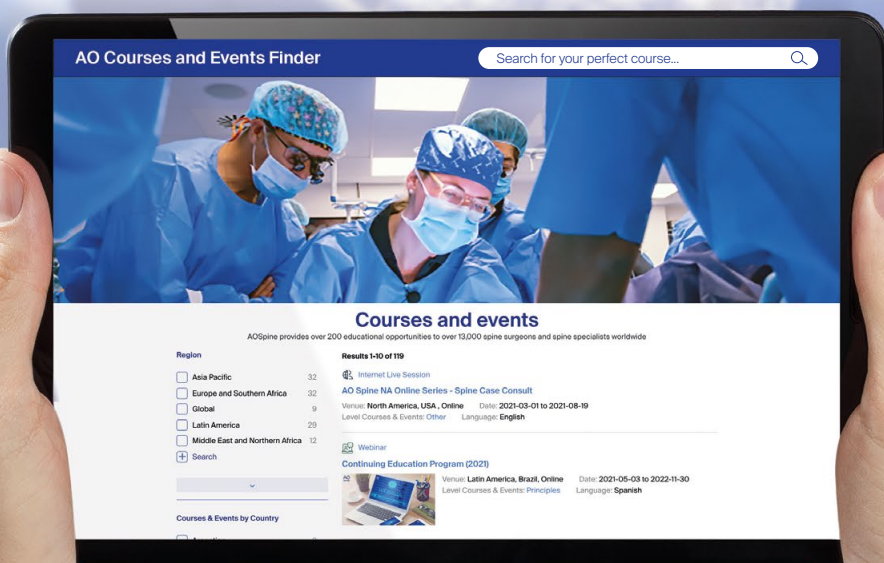
1. Open the Wireless Network Connection window
2. Choose the **AO Business** network as shown in the printscreen below and click on the **Connect** button
3. Our **AO Business** wireless network requires a wireless protected access (WPA) network key:
Network key: **aowireless**



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



Transforming
Surgery—
Changing
Lives

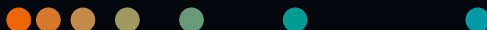
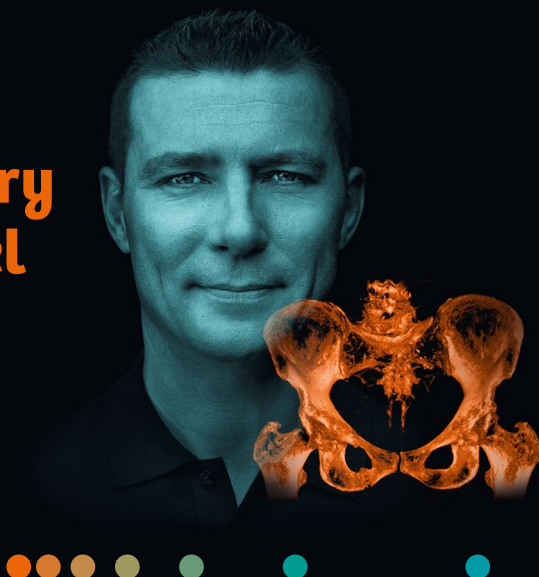
www.aofoundation.org/our-courses-and-events/course-finder

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More information at
www.aofoundation.org

Take image-guided surgery to a new level

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