Event program

AOTrauma/AOREcon Course—
Comprehensive Periprosthetic Fracture Management of the Hip and Knee—Fracture Fixation and Revision Arthroplasty

December 6–8, 2017 Davos, Switzerland

Lecture hall: Studio
The first AO Course was held in Davos in 1960—these early courses pioneered psychomotor techniques by teaching practical skills of AO Techniques. Since those early days over 455,000 surgeons and 155,000 ORP from over 110 countries have attended AO Courses.
AORecon

AORecon fosters a global network of orthopedic surgeons providing education to improve patient care in joint preservation and replacement

7 Principles of Education
Welcome

Dear participant

It is with great pleasure that we welcome you to the first AOTrauma/AORecon joint curriculum course. By addressing periprosthetic fractures as they overlap between trauma and arthroplasty, this course offers senior surgeons a holistic approach to this multifaceted subject.

Over the program’s three days, high-level experts from both subspecialties will lead associated lectures and deliver technical know-how to sharpen your respective understanding and develop your interdisciplinary skills.

The AO Foundation Davos Courses offer more than just a course experience. Your primary focus is active engagement in your course. In addition, we encourage you to:

• Interact with over 300 international faculty and discuss the specific issues you face
• Expand your professional network by establishing new relationships with colleagues that include faculty and participants from over 80 countries
• Visit and speak with staff and surgeons from the AO Foundation’s Clinical Divisions and Institutes. Both the exhibits in the AO World and the “Insight into the AO Center Davos” allow you to learn about the AO’s ongoing activities and the resources available to support you in your clinical work

Your current level of knowledge, attitudes, and skills will be challenged throughout the course. The best-in-class curriculum and faculty will provide you a memorable learning experience that will remain with you for a lifetime. We hope that you will immediately transfer these insights and learnings into your daily practice, to reach our shared goal: to improve patient care through surgical excellence.

Yours sincerely,

Kodi Kojima
Chairperson AOTrauma
International Board

Wael Taha
Chairperson AOTrauma
Education Commission

Norbert P Haas
AORecon Steering Board

Carsten Perka
AORecon Education Forum
Goal of the course

This course aims to maximize patient outcomes following periprosthetic fracture by improving the practicing surgeon's ability to recognize, classify, plan, and perform internal fixation and revision total joint arthroplasty procedures around hip and knee prostheses.

Target participants

Senior, experienced (more than 5 years) consultant/practicing surgeons:
- general orthopedic surgeons
- fracture-specialized surgeons
- arthroplasty-specialized surgeons
- surgeons experienced with both trauma and arthroplasty

Learning objectives

Upon completion of this course, participants will be able to:
- Recognize the challenge of periprosthetic fracture management
- Explain the indications for internal fixation and revision arthroplasty (including intraoperative fractures)
- Apply techniques of internal fixation and revision arthroplasty
- Prevent and treat complications
- Follow up the patient and optimize patient satisfaction
- Analyze treatment failures and recognize possible pitfalls in treatment

Course description

This 3-day (16-hour) educational event is delivered through lectures, case-based lectures, small group discussions, and hands-on practical exercises on fixation and revision around the hip and knee. The 5 modules of the course, delivered by faculty experienced in fracture fixation and arthroplasty are: general principles, fracture fixation with implant retention, revision arthroplasty around the hip, revision arthroplasty around the knee, and complications and outcomes.
Chairpersons

Karl Stoffel  
Kantonsspital Baselland  
University of Basel  
Switzerland

Luigi Zagra  
IRCCS Istituto Ortopedico Galeazzi  
Milan, Italy

Faculty

<table>
<thead>
<tr>
<th>Bas</th>
<th>Masri</th>
<th>University of British Columbia</th>
<th>Vancouver</th>
<th>Canada</th>
</tr>
</thead>
<tbody>
<tr>
<td>Endre</td>
<td>Varga</td>
<td>University of Szeged</td>
<td>Szeged</td>
<td>Hungary</td>
</tr>
<tr>
<td>Mark</td>
<td>Reilly</td>
<td>Rutgers-New Jersey Medical School</td>
<td>Newark</td>
<td>USA</td>
</tr>
<tr>
<td>Michael</td>
<td>Raschke</td>
<td>Universitätsklinikum Münster</td>
<td>Münster</td>
<td>Germany</td>
</tr>
<tr>
<td>Michael</td>
<td>Huo</td>
<td>UT Southwestern Medical Center</td>
<td>Dallas</td>
<td>USA</td>
</tr>
<tr>
<td>Sam</td>
<td>Oussedik</td>
<td>University College London Hospitals</td>
<td>London</td>
<td>UK</td>
</tr>
</tbody>
</table>
### Wednesday, December 6, 2017

<table>
<thead>
<tr>
<th>TIME</th>
<th>AGENDA ITEM</th>
<th>WHO</th>
</tr>
</thead>
<tbody>
<tr>
<td>13:30–13:45</td>
<td>Introduction to the course</td>
<td>K Stoffel, L Zagra</td>
</tr>
<tr>
<td><strong>Module 1</strong></td>
<td><strong>General principles</strong></td>
<td>Moderator: M Reilly</td>
</tr>
<tr>
<td>13:45–14:15</td>
<td>Introduction to the problem—two cases with poor outcomes</td>
<td>K Stoffel, L Zagra</td>
</tr>
<tr>
<td>14:15–14:25</td>
<td>Assessing the patient</td>
<td>M Raschke</td>
</tr>
<tr>
<td>14:25–14:35</td>
<td>Imaging</td>
<td>E Varga</td>
</tr>
<tr>
<td>14:35–14:45</td>
<td>Is the implant well fixed?</td>
<td>K Stoffel</td>
</tr>
<tr>
<td>14:45–15:00</td>
<td>Classification—principles and application</td>
<td>B Masri</td>
</tr>
<tr>
<td>15:00–16:00</td>
<td><strong>Discussion group 1</strong></td>
<td>M Huo, B Masri, S Oussedik, K Stoffel, E Varga, L Zagra,</td>
</tr>
<tr>
<td></td>
<td><strong>Is the stem stable?</strong></td>
<td></td>
</tr>
<tr>
<td>16:00–16:10</td>
<td>Improving the intraoperative journey for the patient</td>
<td>M Reilly</td>
</tr>
<tr>
<td>16:10–16:20</td>
<td>Questions and answers</td>
<td>All faculty</td>
</tr>
<tr>
<td>16:20–16:40</td>
<td><strong>COFFEE BREAK</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Module 2</strong></td>
<td><strong>Fracture fixation with implant retention</strong></td>
<td>Moderator: E Varga</td>
</tr>
<tr>
<td>16:40–16:50</td>
<td>Case-based lecture—indications</td>
<td>M Huo</td>
</tr>
<tr>
<td>16:50–17:00</td>
<td>Fixation options and biomechanical principles</td>
<td>M Reilly</td>
</tr>
<tr>
<td>17:00–17:15</td>
<td>Reduction and fixation</td>
<td>K Stoffel</td>
</tr>
<tr>
<td>17:15–17:50</td>
<td><strong>Plenary case presentations and discussion</strong></td>
<td>Moderators: K Stoffel, L Zagra Faculty panel: M Huo, B Masri, M Reilly, E Varga</td>
</tr>
<tr>
<td></td>
<td><strong>Internal fixation cases</strong></td>
<td></td>
</tr>
<tr>
<td>17:50–18:00</td>
<td>Questions and answers</td>
<td>All faculty</td>
</tr>
</tbody>
</table>
### Thursday, December 7, 2017

<table>
<thead>
<tr>
<th>TIME</th>
<th>AGENDA ITEM</th>
<th>WHO</th>
</tr>
</thead>
<tbody>
<tr>
<td>08:00–10:00</td>
<td><strong>Group A</strong> Practical exercises</td>
<td>B Masri, S Oussedik, M Raschke, K Stoffel, E Varga, M Huo</td>
</tr>
<tr>
<td></td>
<td>1. Internal fixation techniques (cables, cerclage and construct stability)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2. Internal fixation techniques (locking attachment plate, periprosthetic screws and construct stability)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3. Interprosthetic fracture fixation</td>
<td></td>
</tr>
<tr>
<td></td>
<td>LOCATION: PRACTICAL EXERCISES ROOM</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Group B</strong> Discussion group</td>
<td>M Reilly, L Zagra</td>
</tr>
<tr>
<td></td>
<td>Internal fixation cases, including complications</td>
<td></td>
</tr>
<tr>
<td></td>
<td>LOCATION: STAY IN LECTURE ROOM</td>
<td></td>
</tr>
<tr>
<td>10:00–10:30</td>
<td>COFFEE BREAK</td>
<td></td>
</tr>
<tr>
<td>10:30–12:30</td>
<td><strong>Group B</strong> Practical exercises</td>
<td>B Masri, S Oussedik, M Raschke, M Reilly, K Stoffel, L Zagra</td>
</tr>
<tr>
<td></td>
<td>1. Internal fixation techniques (cables, cerclage and construct stability)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2. Internal fixation techniques (locking attachment plate, periprosthetic screws and construct stability)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3. Interprosthetic fracture fixation</td>
<td></td>
</tr>
<tr>
<td></td>
<td>LOCATION: PRACTICAL EXERCISES ROOM</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Group A</strong> Discussion group</td>
<td>E Varga, M Huo</td>
</tr>
<tr>
<td></td>
<td>Internal fixation cases, including complications</td>
<td></td>
</tr>
<tr>
<td></td>
<td>LOCATION: STAY IN LECTURE ROOM</td>
<td></td>
</tr>
<tr>
<td>12:30–13:40</td>
<td>LUNCH BREAK</td>
<td></td>
</tr>
<tr>
<td><strong>Module 3</strong></td>
<td><em>Revision arthroplasty around the hip</em></td>
<td>Moderator: M Huo</td>
</tr>
<tr>
<td>13:40–13:50</td>
<td>Case-based lecture—indications</td>
<td>B Masri</td>
</tr>
<tr>
<td>13:50–14:05</td>
<td>Principles of revision and implant selection</td>
<td>L Zagra</td>
</tr>
<tr>
<td>14:05–14:15</td>
<td>Surgical approaches and implant removal</td>
<td>M Huo</td>
</tr>
<tr>
<td>14:15–14:25</td>
<td>Bone loss management</td>
<td>L Zagra</td>
</tr>
<tr>
<td>14:25–14:35</td>
<td>Acetabular fractures</td>
<td>E Varga</td>
</tr>
<tr>
<td>14:35–14:50</td>
<td>Questions and answers</td>
<td>All faculty</td>
</tr>
<tr>
<td>14:50–15:05</td>
<td>Planning exercise for practical exercise (stem revision)</td>
<td>K Stoffel, L Zagra</td>
</tr>
<tr>
<td>TIME</td>
<td>AGENDA ITEM</td>
<td>WHO</td>
</tr>
<tr>
<td>--------------</td>
<td>-------------------------------------------------</td>
<td>------------------------------------------</td>
</tr>
<tr>
<td>15:05–16:25</td>
<td><strong>Group A</strong> Practical exercise—stem revision</td>
<td>S Oussedik, M Reilly, K Stoffel, E Varga, L Zagra, M Huo</td>
</tr>
<tr>
<td></td>
<td><strong>Group B</strong> Discussion group</td>
<td>B Masri, M Raschke</td>
</tr>
<tr>
<td></td>
<td>Revision arthroplasty around the hip, including complications</td>
<td></td>
</tr>
<tr>
<td></td>
<td>LOCATION: PRACTICAL EXERCISES ROOM</td>
<td></td>
</tr>
<tr>
<td>16:25–16:45</td>
<td>COFFEE BREAK</td>
<td></td>
</tr>
<tr>
<td>16:45–17:55</td>
<td><strong>Group B</strong> Practical exercise—stem revision</td>
<td>B Masri, M Raschke, M Reilly, E Varga, L Zagra, M Huo</td>
</tr>
<tr>
<td></td>
<td><strong>Group A</strong> Discussion group</td>
<td>S Oussedik, K Stoffel</td>
</tr>
<tr>
<td></td>
<td>Revision arthroplasty around the hip, including complications</td>
<td></td>
</tr>
<tr>
<td></td>
<td>LOCATION: STAY IN LECTURE ROOM</td>
<td></td>
</tr>
<tr>
<td>17:45–20:30</td>
<td>AO WORLD NIGHT</td>
<td></td>
</tr>
</tbody>
</table>
Friday, December 8, 2017

<table>
<thead>
<tr>
<th>TIME</th>
<th>AGENDA ITEM</th>
<th>WHO</th>
</tr>
</thead>
<tbody>
<tr>
<td>08:00–08:45</td>
<td>Plenary case presentations and discussion</td>
<td>Moderators: B Masri, L Zagra</td>
</tr>
<tr>
<td></td>
<td>Revision arthroplasty around the hip and knee cases, including complications</td>
<td>Faculty panel: S Oussedik, M Raschke, E Varga, M Huo</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Module 4 Revision arthroplasty around the knee</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Moderator: B Masri</td>
</tr>
<tr>
<td>08:45–08:55</td>
<td>Case-based lecture—indications</td>
<td>B Masri</td>
</tr>
<tr>
<td>08:55–09:05</td>
<td>Principles of revision and implant selection</td>
<td>S Oussedik</td>
</tr>
<tr>
<td>09:05–09:15</td>
<td>Surgical approaches and implant removal</td>
<td>E Varga</td>
</tr>
<tr>
<td>09:15–09:25</td>
<td>Bone loss management</td>
<td>S Oussedik</td>
</tr>
<tr>
<td>09:25–09:35</td>
<td>Questions and answers</td>
<td>All faculty</td>
</tr>
<tr>
<td></td>
<td></td>
<td>09:35–10:05 COFFEE BREAK</td>
</tr>
<tr>
<td>10:05–11:15</td>
<td>Discussion group 4</td>
<td>B Masri, S Oussedik, M Raschke, E Varga, M Huo</td>
</tr>
<tr>
<td></td>
<td>Revision arthroplasty around the knee, including complications</td>
<td>Module 5 Complications and outcomes</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Moderator: L Zagra</td>
</tr>
<tr>
<td>11:15–11:25</td>
<td>Postoperative management</td>
<td>M Huo</td>
</tr>
<tr>
<td>11:25–11:40</td>
<td>Prevention of complications</td>
<td>M Raschke</td>
</tr>
<tr>
<td>11:40–11:50</td>
<td>Infected periprosthetic fractures</td>
<td>B Masri</td>
</tr>
<tr>
<td>11:50–12:00</td>
<td>Nonunion and malunion</td>
<td>M Reilly</td>
</tr>
<tr>
<td>12:00–12:10</td>
<td>Megaprosthesis for hip and knee—indications and limitations</td>
<td>S Oussedik</td>
</tr>
<tr>
<td>12:10–12:30</td>
<td>Final questions, evaluation, and take-home messages</td>
<td>K Stoffel, L Zagra</td>
</tr>
</tbody>
</table>
Event organization

**AOTrauma Education**
Bettina Bolliger
Clavadelstrasse 8
7270 Davos, Switzerland
Tel  +41 81 414 27 22
Fax  +41 81 414 22 84
Email bbolliger@aotrauma.org

**AOREcon**
Arisa Wada
Clavadelstrasse 8
7270 Davos, Switzerland
Tel  +41 81 414 21 11
Email arisa.wada@aorecon.org

**AO funding sources**
Unrestricted educational grants from different sources are collected and pooled together centrally by the AO Foundation. 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.
Event information

Event fee
The event fee is CHF 1,600.– and includes admission to the event as well as documentation, coffee breaks, lunches, AO World Night, and course certificate.

European CME Accreditation
For this course the UEMS-EACCME® in Brussels have granted 13 European CME credits (ECMEC®s).

Swiss CME Accreditation
Additionally, for this course the following Swiss societies: Schweizerische Gesellschaft für Chirurgie (SGC/SSC), Schweizerische Gesellschaft für Orthopädie und Traumatologie (SGO/SSO), have granted 16 Swiss CME credits.

Conflicts of Interest (COI)
All disclosure information can be viewed on https://aorecon.aofoundation.org/disclosure.html

Evaluation guidelines
All AO Trauma & AORecon events apply the same evaluation process, both online (pre- and post-event evaluation) and by paper-and-pencil questionnaire (on-site evaluation). This helps us to ensure that we continue to meet your training needs.

Intellectual property
Event materials, presentations, and case studies are the intellectual property of the course faculty. All rights are reserved. Check hazards and legal restrictions on www.aorecon.org/disclaimer

Recording, photographing, or copying of lectures, practical exercises, case discussions, or any event materials is strictly forbidden. Participants violating intellectual property will be dismissed.

The AO Foundation reserves the right to film, photograph, and audio record during their events. Participants must understand that in this context they may appear in these recorded materials. The AO Foundation assumes participants agree that these recorded materials may be used for AO marketing and other purposes, and made available to the public.

Security
Security checks will be conducted at the entrance of the building. Wearing of a name tag is compulsory during lectures, practical exercises, and group discussions.

No insurance
The event organization does not take out insurance to cover any individual against accidents, thefts or other risks.

Use of mobile phones
Use of mobile phones 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 Davos Courses 2017, 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 advisable.
Event venue

**Congress Center Davos**
Talstrasse 49A
7270 Davos, Switzerland
Phone +41 81 414 62 00
Fax +41 81 414 62 29

**General information**
- Sunday: 12:00–19:00
- Monday to Thursday: 07:30–19:00
- Friday: 07:30–16:00

**AO World**
- Sunday: 15:00–17:00
- Monday to Thursday: 09:00–17:00 (Thursday –20:30)
- Friday: 09:00–15:30

**Industry exhibition**
- Sunday: 15:00–19:00
- Monday to Friday: 09:00–17:00 (Thursday –18:00)
- Friday: 09:00–15:30

Exhibitions

**AO World**
Visit the AO World in the main foyer, home to the AO Clinical Divisions, AO Institutes and the AO Foundation Initiatives. Here you can explore membership opportunities, browse our print and electronic publications and learn about groundbreaking activities within the AO. Discover research, development, fellowships, and other opportunities available to you by visiting all the booths in the AO World.

**Industry exhibitors**
Visit the exhibitions of our major industry partners DePuy Synthes and Siemens, who are also contributing in-kind support (material and logistics), and the other exhibitors: SYNBBONE, Ethicon, Invibio, Victorinox, ICUC, Touch Surgery, and Moticon GmbH.

**Media exhibitors**
Lehmanns Media can be found at the entrance to the Congress Center.

Business center

There are business centers facilities in the Congress Center which are accessible to everybody.

**Services**
- Internet and e-mail access
- Printer access
- www.aofoundation.org
  AO Course website offering course-related information

**Opening hours**
- 30 minutes before the first course of the day starts until
- 30 minutes after the last course ends

**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, VPN-Connection, VirusScanner). AO cannot be held responsible for any data loss or theft.

For further information or support please contact:

AO Foundation
Phone +41 81 414 62 15
E-mail it.helpdesk@aofoundation.org

**Wireless network**

**How to connect to the AO Wireless LAN**
- Open the wireless network connection window
- Choose the **AO Business** network as shown in the printscreen below and click on the **Connect** button

- Our "AO Business" wireless network requires a WPA network key:
  Network key: **aowireless**

- Then click on the **OK** button
AO Foundation—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 surgeons from the AO network. All education is planned based on needs assessment data, designed and evaluated using concepts and evidence from the most current medical education research, and involving 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, USA (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.org)

3) Branding and advertising
No industry logos or advertising (with the exception of the AO Foundation and AO Clinical Division) are permitted in the area where educational activities take place.

Sponsors providing financial or in-kind support are allowed to have a promotional booth or run activities outside the educational area with approval from the event chairperson.

4) Use of technologies and products in simulations
If case simulations are chosen as an educational method to educate skills, we only use technology approved by the AOTK System (AOTK)—a large independent group of volunteer surgeons developing and peer-reviewing new technology (more information about AOTK, its development and approval process can be found on the AO Foundation website: www.aofoundation.org).

5) Personnel
Industry staff is not allowed to interfere with the educational content or engage in educational activities during the event.
AO Research Institute Davos (ARI)

Mission
Excellence in applied Preclinical Research and Development within trauma and disorders of the musculoskeletal system and translation of this knowledge to achieve more effective patient care worldwide.

Goals
• Contribute high quality applied Preclinical Research and Development focused towards 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.

At the AO World booths, meet with our team including our ARI Medical Research Fellows, establish contacts, freely discuss your clinical problems, ideas, and learn about the latest results from the AO Research Institute Davos (ARI). Insight into the AO Center will show our infrastructure under one roof and enable you to meet some of our research team.

Areas:

Collaborative Research Programs
• Annulus Fibrosus Rupture
• Acute Cartilage Injury

Craniomaxillofacial
• Imaging and planning of surgery, computer aided preoperative planning
• Medication-Related Osteonecrosis of the Jaw
• Bone Regeneration

Spine
• Degeneration and regeneration of the intervertebral disc
• Fracture fixation in osteoporotic bone

Trauma
• Bone infection, including the development and testing of active anti-infective interventions
• Fracture fixation in osteoporotic bone including intraoperative assessment of bone quality, augmentation techniques and prophylaxis
• Evaluation of the cortical and trabecular bone remodeling (with special regards to the porosity) in the proximal humerus and its impact on the fracture zones
• Development of smart surgical instruments and implant concepts for optimized bone healing
• Patient outcomes and biomarkers

Veterinary Medicine
• Improving osteosynthesis for small and large animals

Multidisciplinary
• Analysis of implant-specific functional anchorage with CT-technology
• Ex vivo testing using advanced biomechanical models
• In vivo studies using established or newly developed preclinical models
• Gene transfer- non-viral and viral
• Implant design using the Finite Element Methods
• Implant positioning assistance, C-arm guided implant placement
• Telemetric monitoring of bone healing
• In vivo and in vitro quantification of bone turnover and scaffold degradation
• Longitudinal analysis within in-vivo studies using CT-technology
• Medical 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
• Bioreactor culture systems and mechanobiology
• Surface modification of PEEK to improve tissue integration
• Thermoresponsive gel for delivery of antibiotics, stem cells, growth factors, transfected cells etc.
• 3R – refinement of preclinical studies
• Development, standardization, optimization and improvement of preclinical models and methods

For the 2016 AO Research Institute Davos activity report and recent publications go to:
www.aofoundation.org/ari/publications
Sponsors

We thank our major industry partners DePuy Synthes and Siemens for contributing in-kind support (material and logistics) without which this event would not be possible. A special thanks to DePuy Synthes and Siemens for providing an unrestricted educational grant for this event.

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

Credit Suisse
Synbone
Ethicon
Upcoming AO Courses—Davos 2018

AO Courses—December 2–7, 2018
• AOTrauma Course—Basic Principles of Fracture Management
• AOTrauma Course—Advances Principles of Fracture Management
• AOTrauma Course—Advanced Principles of Fracture Management for Swiss Residents
• AOTrauma Masters Course—Current Concepts
• AOTrauma Course—Foot and Ankle
• AOTrauma Course—Pediatrics
• AOTrauma Masters Kurs
• AORecon Course

AO Courses—December 9–13, 2018
• AOTrauma Course—Basic Principles of Fracture Management for Swiss Surgeons
• AOspine Courses
• AOCMF Courses
• AOVET Courses

List subject to changes. The final Davos courses list as well as worldwide courses lists will be available on www.aotrauma.org in January 2018.
Conventional 2D imaging may not always provide enough information to safeguard correct placement of screws and implants. Intraoperative 3D imaging can therefore be an important factor in improving surgical outcomes.

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 is currently under development; is not for sale in the U.S. Its future availability cannot be guaranteed.