Event program

AOTrauma Masters Course—Osteotomies of the Lower Extremity

Course with Anatomical Specimen Dissection

April 28–May 1, 2019   Madrid, Spain
Mission

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

Purpose statement

AOTrauma is committed to improve patient care outcomes through the highest quality education. We strive to combine the right knowledge and surgical skills that empower the orthopedic and trauma surgeons to put theory into practice and to improve fracture management for the benefit of the patient.

The AO principles of fracture management

1. Fracture reduction and fixation to restore anatomical relationships.
2. Fracture fixation providing absolute or relative stability, as required by the “personality” of the fracture, the patient, and the injury.
3. Preservation of the blood supply to soft-tissues and bone by gentle reduction techniques and careful handling.
4. Early and safe mobilization and rehabilitation of the injured part and the patient as a whole.
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.

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Welcome
Dear AOTrauma course participant

Sharing a world of knowledge

Welcome to the second pilot event for the AOTrauma World Meeting in Madrid, Spain, which will take place for the first time in 2020. AOTrauma provides an outstanding selection of AOTrauma courses designed to meet your specific professional needs. We are confident that you will find the course offerings as well as the networking opportunity professionally rewarding.

With a global reputation for innovation, leadership, and excellence in Continuing Medical Education (CME), AOTrauma and the AO Education Institute are transforming education. AOTrauma is constantly expanding its portfolio of educational activities available to you. Continuing Medical Education is not just about face-to-face courses. Portfolios address the specific clinical problems that you encounter every day. Visit the AOTrauma home page (www.aotrauma.org) to sample the new assets which are being added constantly.

Your current level of knowledge, attitudes, and skills will be challenged throughout the week. The best-in-class curriculum and faculty will provide you with 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 with AOTrauma, we invite you to become a member. Membership for medical doctors (and DO’s) requires only a completed AOTrauma Basic Principles Course and the payment of a reasonable yearly fee.

Yours sincerely,

Wa’el Taha
Chairperson AOTrauma Education Commission

Kodi Kojima
Chairperson AOTrauma International Board
Goal of the course

The goal of the course is to cover principles of osteotomies at the lower extremity. Constitutional deformities and posttraumatic deformities lead to acute disability or delayed disablement and osteoarthritis in the hip, knee, and ankle. Osteotomies around the knee had a renaissance already 15 years ago. Principles of osteotomies around the knee is still a need in the daily practice of an orthopedic surgeon. The goal of the course is to recognize the powerful treatment of osteotomies to restore alignment. The focus is to deliver principles in diagnostics, deformity analysis, planning and state-of-the art osteotomies. Moreover, presentations will cover new ideas in surgical techniques that will probably become standard procedures in the near future.

Learning objectives

Upon completion of the course, participants should be able to:

• Analyze frontal, sagittal, and axial plane alignment of the leg and plan correction of limb alignment
• Apply the principles of preoperative planning for osteotomies around the knee, hip, and ankle
• Recognize the relevance of constitutional and posttraumatic deformity for the treatment of knee osteoarthritis
• Review technical pearls for these operative procedures and describe the latest developments in techniques, implants, and instrumentation
• Perform the most relevant approaches for the lower extremity (osteotomies)

Target participants

The course is aimed at orthopedic surgeons interested in trauma, degenerative joint decease and deformities of the lower extremity.

Participants should have completed the AO Trauma Courses—Basic Principles and Advanced Principles of Fracture Management and must be able to communicate well in English.

Course description

The course is delivered using a combination of small group discussions, cases, exercises with anatomical specimens and practical exercise in deformity analysis, and summary lectures. 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.
Chairperson

Steffen Schröter
BG Trauma Center Tübingen
University of Tübingen
Tübingen, Germany

Co-Chairperson

Philipp Lobenhoffer
Gelenkchirurgie Orthopädie Hannover
Hannover, Germany

International Faculty

Mohamed Abulsoud
Al-Azhar University
Cairo
Egypt

Fabricio Fogagnolo
Sao Paulo University, Hospital das Clínicas de Ribeirão Preto
Ribeirão Preto
Brazil

Ye Huang
Beijing Jishuitan Hospital
Beijing
China

Mauricio Kfuri
Missouri Orthopaedic Institute, University of Missouri
Columbia
USA

Regional Faculty

Matthew Dawson
Cumberland Infirmary
Carlisle
United Kingdom

Iztok Gril
University Medical Centre Ljubljana
Ljubljana
Slovenia

Joerg Harrer
Helmut-G.-Walther Klinikum Lichtenfels
Lichtenfels
Germany

Fabian Stuby
BG Trauma Center Murnau
Murnau
Germany

Ronald van Heerwaarden
Kliniek ViaSana
Mill
Netherlands
Sunday, April 28, 2019

<table>
<thead>
<tr>
<th>TIME</th>
<th>AGENDA ITEM</th>
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<tbody>
<tr>
<td>15:00</td>
<td>Opening of the course venue</td>
</tr>
<tr>
<td>15:00–17:00</td>
<td>Registration of participants</td>
</tr>
<tr>
<td>17:00–18:00</td>
<td>Opening ceremony</td>
</tr>
<tr>
<td>18:00–19:00</td>
<td>AOTRAUMA RECEPTION</td>
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Monday, April 29, 2019

<table>
<thead>
<tr>
<th>TIME</th>
<th>AGENDA ITEM</th>
<th>WHO</th>
</tr>
</thead>
<tbody>
<tr>
<td>09:00–09:05</td>
<td>Welcome and introduction to the course and today's modules</td>
<td>S Schröter, P Lobenhoffer</td>
</tr>
<tr>
<td></td>
<td><strong>Module 1 Deformity analysis and planning</strong></td>
<td>Moderator: S Schröter</td>
</tr>
<tr>
<td>09:05–09:20</td>
<td>Rationale for osteotomies at the lower extremity</td>
<td>M Kfuri</td>
</tr>
<tr>
<td>09:20–09:45</td>
<td>Deformity analysis in the frontal plane</td>
<td>J Harrer</td>
</tr>
<tr>
<td>09:45–10:00</td>
<td>Deformity analysis in the sagittal and axial plane</td>
<td>S Schröter</td>
</tr>
<tr>
<td>10:00–10:15</td>
<td>Planning an osteotomy (all planes)</td>
<td>R van Heerwaarden</td>
</tr>
<tr>
<td>10:15–10:45</td>
<td>COFFEE BREAK</td>
<td></td>
</tr>
<tr>
<td>10:45–13:00</td>
<td><strong>Planning exercise</strong></td>
<td>R van Heerwaarden, J Harrer</td>
</tr>
<tr>
<td></td>
<td><strong>Deformity analysis and planning</strong></td>
<td>All faculty</td>
</tr>
<tr>
<td>13:00–13:30</td>
<td>LUNCH BREAK</td>
<td></td>
</tr>
<tr>
<td>13:30–14:00</td>
<td>TRANSFER TO THE ANATOMICAL LABORATORY</td>
<td>MEETING POINT 13:30 MAIN ENTRANCE COURSE VENUE</td>
</tr>
<tr>
<td>14:00–14:10</td>
<td>Preparation for the anatomical specimen laboratory</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Module 2 Tibial osteotomies</strong></td>
<td>Moderator: M Kfuri</td>
</tr>
<tr>
<td>14:10–18:00</td>
<td><strong>Anatomical specimen laboratory</strong></td>
<td>All faculty</td>
</tr>
<tr>
<td></td>
<td>• Approach and perform medial open wedge high tibial osteotomy (HTO)</td>
<td>Y Huang</td>
</tr>
<tr>
<td></td>
<td>• Approach distal femoral osteotomy (DFO)</td>
<td>R van Heerwaarden</td>
</tr>
<tr>
<td></td>
<td>• Perform extension/flexion-osteotomy—dome shaped</td>
<td>P Lobenhoffer</td>
</tr>
<tr>
<td></td>
<td>• Approach and perform biplanar distal tibia osteotomy</td>
<td>S Schröter</td>
</tr>
<tr>
<td>18:00–18:10</td>
<td>Summary, evaluation, and take-home messages</td>
<td>R van Heerwaarden</td>
</tr>
<tr>
<td>18:10–18:40</td>
<td>TRANSFER TO THE COURSE VENUE</td>
<td>MEETING POINT 18:10 MAIN ENTRANCE ANATOMICAL LABORATORY</td>
</tr>
</tbody>
</table>
## Tuesday, April 30, 2019

<table>
<thead>
<tr>
<th>Time</th>
<th>Agenda Item</th>
<th>Who</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Module 3</strong></td>
<td><strong>Osteotomies around the knee</strong></td>
<td>Moderator: Y Huang</td>
</tr>
<tr>
<td>09:00–09:05</td>
<td>Introduction to today’s module</td>
<td>P Lobenhoffer</td>
</tr>
<tr>
<td>09:05–09:10</td>
<td>LOCATION CHANGE TO DISCUSSION GROUPS</td>
<td></td>
</tr>
</tbody>
</table>
| 09:10–10:30   | **Discussion group 1**  
**Osteotomies around the knee**  
Group A – Disc Room 5  
Group B – Disc Room 6  
Group C – Lecture Room | M Kfuri, M Abulsoud, F Fogagnolo, F Stuby, M Dawson, P Lobenhoffer, I Gril, Y Huang |
| 10:30–11:00   | COFFEE BREAK                                    |                                         |
| 11:00–11:15   | Intraarticular osteotomies of the tibial plateau | P Lobenhoffer                            |
| 11:15–11:30   | New concepts of HTO—lengthening nail            | M Dawson                                 |
| 11:30–12:00   | **Panel discussion**  
- Indications for HTO versus unicompartmental knee arthroplasty (UKA) versus total knee arthroplasty (TKA)  
- Osteotomies in posttraumatic deformities versus TKA | Y Huang, M Kfuri, P Lobenhoffer, R van Heerwaarden |
| 12:00–12:15   | Evidence in osteotomies around the knee          | M Abulsoud                               |
| 12:15–12:20   | LOCATION CHANGE TO DISCUSSION GROUPS             |                                         |
| 12:20–13:00   | **Discussion group 2**  
**Osteotomies—patellar dislocations**  
Group A – Disc Room 5  
Group B – Disc Room 6  
Group C – Lecture Room | S Schröter, M Dawson, F Fogagnolo, M Kfuri, J Harrer, R van Heerwaarden, M Abulsoud, Y Huang |
<p>| 13:00–14:00   | LUNCH BREAK                                     |                                         |</p>
<table>
<thead>
<tr>
<th>TIME</th>
<th>AGENDA ITEM</th>
<th>WHO</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Module 4</strong></td>
<td><strong>Osteotomies at the proximal femur</strong></td>
<td>Moderator: F Stuby</td>
</tr>
<tr>
<td>14:00–14:15</td>
<td>Osteotomy at the proximal femur in posttraumatic deformity</td>
<td>I Gril</td>
</tr>
<tr>
<td>14:15–14:30</td>
<td>Surgical technique of the proximal femoral osteotomy and blade plate</td>
<td>F Stuby</td>
</tr>
<tr>
<td>14:30–14:35</td>
<td>LOCATION CHANGE TO DISCUSSION GROUPS</td>
<td></td>
</tr>
<tr>
<td>14:35–15:30</td>
<td><strong>Discussion group 3</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Osteotomies around the proximal femur</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Group A – Disc Room 5</td>
<td>F Stuby, P Lobenhoffer</td>
</tr>
<tr>
<td></td>
<td>Group B – Disc Room 6</td>
<td>F Fogagnolo, Y Huang, S Schröter</td>
</tr>
<tr>
<td></td>
<td>Group C – Lecture Room</td>
<td>I Gril, M Dawson, M Abulsoud</td>
</tr>
<tr>
<td>15:30–16:00</td>
<td><strong>COFFEE BREAK</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Module 5</strong></td>
<td><strong>Osteotomies at the distal tibia and tibial shaft</strong></td>
<td>Moderator: J Harrer</td>
</tr>
<tr>
<td>16:00–16:15</td>
<td>Indications in posttraumatic osteoarthritis of the ankle?</td>
<td>M Kfuri</td>
</tr>
<tr>
<td>16:15–16:30</td>
<td>Ring fixator in deformities at the lower extremity</td>
<td>I Gril</td>
</tr>
<tr>
<td>16:30–16:35</td>
<td>LOCATION CHANGE TO DISCUSSION GROUPS</td>
<td></td>
</tr>
<tr>
<td>16:35–17:45</td>
<td><strong>Discussion group 4</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Osteotomies at the distal tibia and tibial shaft</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Group A – Disc Room 5</td>
<td>I Gril, F Fogagnolo</td>
</tr>
<tr>
<td></td>
<td>Group B – Disc Room 6</td>
<td>R van Heerwaarden, F Stuby, S Schröter</td>
</tr>
<tr>
<td></td>
<td>Group C – Lecture Room</td>
<td>J Harrer, M Abulsoud, Y Huang</td>
</tr>
<tr>
<td>17:45–17:50</td>
<td>LOCATION CHANGE TO LECTURE ROOM</td>
<td></td>
</tr>
<tr>
<td>17:50–18:00</td>
<td>Summary, evaluation, and take-home messages</td>
<td>M Dawson</td>
</tr>
</tbody>
</table>
## Wednesday, May 1, 2019

<table>
<thead>
<tr>
<th>TIME</th>
<th>AGENDA ITEM</th>
<th>WHO</th>
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</thead>
</table>
| 07:50–08:30   | TRANSFER TO THE ANATOMICAL LABORATORY  
MEETING POINT 07:50 MAIN ENTRANCE COURSE VENUE |                                          |
| 08:30–08:40   | Preparation for the anatomical specimen laboratory                          |                                          |
| **Module 6**  | **Femoral osteotomies**                                                    | Moderator: M Kfuri                        |
| 08:40–12:30   | **Anatomical specimen laboratory**                                         |                                          |
|               | • Approach and perform subtrochanteric osteotomy, blade plate fixation      | All faculty                              |
|               | • Approach and perform lateral closed wedge HTO (fibula midshaft osteotomy) | F Stuby                                  |
|               | • Dissection of the knee—protection of the vessels                         | J Harrer                                 |
|               |                                                                            | P Lobenhoffer                            |
| 12:30–13:00   | TRANSFER TO THE COURSE VENUE  
MEETING POINT 13:00 MAIN ENTRANCE ANATOMICAL LABORATORY |                                          |
| 13:00–13:30   | LUNCH BREAK                                                                |                                          |
| 13:30–14:00   | Complications in osteotomies and how to treat them                          | J Harrer                                 |
| 14:00–14:15   | Recent developments and perspectives                                        | S Schröter                              |
| 14:15–14:30   | Summary of the day, evaluation, closing remarks, and distribution of certificates | P Lobenhoffer, S Schröter                |
Event organization

AOTrauma Education
Bettina Bolliger
Clavadelerstrasse 8
7270 Davos
Switzerland
Tel +41 81 414 27 22
Fax +41 81 414 22 84
Email bbolliger@aotrauma.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 venue

Duques de Pastrana
Paseo de la Habana, 208
8016 Madrid, Spain

Anatomical Specimen Laboratory
Bodies Donation Centre
Universidad Complutense de Madrid
Ciudad Universitaria, Facultad de Medicina, Pabellón 6
Plaza de Ramón y Cajal s/n.
28040 Madrid, Spain

A transfer to and from the anatomical specimen laboratory is organized. Please read your course program for the detailed departure times.
Event information

Event fee
AOTrauma Masters Course—Ostomies of the Lower Extremity: CHF 2600.00
Included in the event fee are the conference bag with documentation, coffee breaks, lunches, course reception, and course certificate.

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

Conflicts of Interest (COI)
All disclosure information can be viewed at the event webpage:
http://AOTRAUMA10009938.aotrauma.org

Course certificate
The course certificates will be available at the end of the event at the welcome desk.

Evaluation guidelines
All AOTrauma events apply the same evaluation process, online pre- and post-event evaluation and on-site paper and pencil questionnaires. This helps AOTrauma to ensure that we continue 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 of lectures, practical exercises, case discussions, or any event materials is absolutely forbidden.

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

Security
There will be a security check at the entrance of the 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, 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
Casual or sportswear
Exhibitions

Visit our exhibition booths in the coffee and lunch area of the event venue. At the AOTrauma and AO Education Institute booths you can explore membership opportunities, browse our print and electronic publications, and learn about groundbreaking activities like AOStaRT, Touch Surgery, and AO Interact.

Our major industry partners DePuy Synthes and Siemens, who are contributing in-kind support (material and logistics), will also be present.

Wireless network

There is a free wireless network available for all participants.

**Event venue**

How to connect to the Wireless LAN

- Open the Wireless Network Connection Window
- Choose the AOTRAUMA network and click on the Connect Button
- Network key: AOTRAUMA2019
- Then click on the OK Button

**Anatomical specimen laboratory**

How to connect to the Wireless LAN

- Open the Wireless Network Connection Window
- Choose the congresosUCM network and click on the Connect Button
- Username: aotrauma@congreso.ucm.es
- Password: aotrauma2018ucm
- Then click on the OK Button.
AO Foundation—Principles of AO Educational Events

**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.

**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 (advamed.org)
- Mecomed Guidelines on Interactions with Healthcare Professionals (www.mecomed.org)

**Branding and advertising**
No industry logos or advertising (with the exception of the AO Foundation and AO 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.

**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 the AOTK, its development and approval process can be found on the AO Foundation website: www.aofoundation.org).

**Personnel**
Industry staff are not allowed to interfere with the educational content or engage in educational activities during the event.
AOTrauma Davos Courses 2019

AO Courses—December 1–6, 2019

- AOTrauma Course—Basic Principles of Fracture Management
- AOTrauma Course—Advanced Principles of Fracture Management for Swiss Residents
- AOTrauma Masters Course—Current Concepts—Upper Extremity I (Scapula–Clavicle–Humerus–Elbow)
- AOTrauma Masters Course—Current Concepts—Upper Extremity II (Forearm–Distal Radius–Hand)
- AOTrauma Masters Course—Current Concepts—Lower Extremity II (Distal Femur–Patella–Malleoli)
- AOTrauma Masters Course—Current Concepts—Tips from the Masters—Through the Eyes of a Master Surgeon
- AOTrauma Course—Pelvic and Acetabular Fractures
- AOTrauma/AORecon Course—Comprehensive Periprosthetic Fracture Management of the Hip and Knee

AO Courses—December 8–11, 2019

- AOTrauma Course—Basic Principles of Fracture Management for Swiss Surgeons

Registration for the AOTrauma Davos Courses 2019 will open on June 13, 2019. For further information please visit: http://aodavoscourses.org/Home.html
Driving excellence and empowering the next generation

AOTrauma membership
Discover the advantages of joining the leading global trauma and orthopedic community, providing its members with education, research and networking opportunities worldwide.

Apply for membership at www.aotrauma.org