Course program

AOTrauma Course—Management of Fractures of the Hand and Wrist

December 6-11, 2015
Davos, Switzerland

Lecture hall: Sanada

Value 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 orthopaedic 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 fractures, 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 250,000 surgeons and 135,000 ORP staff from over 110 countries have attended AO Courses—we now launch AOTrauma to move our education to the next level.

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Dear AOTrauma course participant

Welcome to AOTrauma’s Davos Courses 2015. AOTrauma provides a wide range of relevant courses designed to meet your specific professional needs. We are confident that you will find your course as well as the networking experiences professionally rewarding.

With a global reputation for innovation, leadership, and excellence in Continuing Medical Education (CME), the AOTrauma Clinical Division and the AO Education Institute are transforming education. AOTrauma is constantly expanding its portfolio of educational activities available to you. Continuing Medical Education is no longer just about face-to-face courses. Portfolios are being created to address the specific clinical problems that you encounter every day. Visit the AOTrauma home page (www.aotrauma.org) as new assets are being added every week.

The AOTrauma Davos Courses offers 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 week. The best-in-class curriculum and faculty will provide you a memorable learning experience that will remain with you for a lifetime.

If you enjoy the experience during this week and would like to stay in touch with the elite AOTrauma organization, we invite you to become a member of AOTrauma. Membership for medical doctors (and DO’s) requires only a completed AOTrauma Basic Principles Course and the payment of a reasonable yearly fee.

Kodi Kojima                Jack Wilber

Kodi Kojima
Chairperson AOTrauma
Education Commission

Photo

Photo

Jack Wilber
Chairperson AOTrauma
International Board
Goal of the course

The AOTrauma Course—Management of Fractures of the Hand and Wrist aims to create a clinically centered learning environment where principles and techniques of internal fixation in patients with hand and wrist problems can be understood, applied, and demonstrated appropriately to improve the quality of outcomes.

Target participants

Medical practitioners engaged in the field of hand and wrist surgery. They must actively be involved in trauma management. Ideally, participants have completed the AOTrauma Course—Principles in Operative Fracture Management.

Learning objectives

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

- Describe, apply, and practice the principles of internal fixation in the hand and wrist
- Demonstrate an understanding of preoperative decision-making and the indications and contraindications of those decisions
- Identify and summarize the advantages and disadvantages of different fixation techniques
- Describe the postoperative treatment and common soft-tissue problems
- List the common complications of injury and treatment and discuss their prevention and management
- Relate the principles and techniques of treatment to personal clinical experience
- Recognize the standard surgical approaches in the hand and wrist, fracture reduction, and the application of different implants with the use of necessary instruments

Course description

The AOTrauma Course—Management of Fractures of the Hand and Wrist is an interactive and discursive arena in which participants will be able to understand, discriminate, and consolidate the principles, skills, and techniques applicable to the use of internal fixation in the hand and wrist. The course will concentrate on internal fixation of fractures as well as skeletal reconstruction procedures. At the conclusion of the course, participants will have a broader and more secure comprehension of how, when, and where to apply their knowledge in their clinical practice.

The course will be taught in a modular format. Each module consists of a small number of short evidence-based lectures, which will cover the key information required. In practical exercises, participants will be trained in the application of different techniques. Discussing cases in small groups as well as panel discussions will help participants to understand decision-making and management skills.
Chairpersons

Renato Fricker
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Jesse Jupiter
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Faculty

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Suárez Romero  Fabio  Colombia  fasrsr@gmail.com
Warrier  Sudhir  India  mentalmedico@gmail.com

Course organization

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Fax  +41 81 414 22 84
Email  cguentensperger@aotrauma.org
www.aotrauma.org
### Sunday, December 6, 2015

<table>
<thead>
<tr>
<th>TIME</th>
<th>AGENDA ITEM</th>
<th>WHO</th>
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<tbody>
<tr>
<td>15:00</td>
<td>Opening of the Congress Center</td>
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<tr>
<td>15:00–17:00</td>
<td>Registration of participants</td>
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<tr>
<td>17:00–18:00</td>
<td>Opening ceremony</td>
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<tr>
<td>18:00–20:00</td>
<td>FOUNDERS’ RECEPTION</td>
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### Monday, December 7, 2015

<table>
<thead>
<tr>
<th>TIME</th>
<th>AGENDA ITEM</th>
<th>WHO</th>
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<tbody>
<tr>
<td></td>
<td><strong>Module 1</strong> Introduction</td>
<td></td>
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<tr>
<td>08:00–08:15</td>
<td>Welcome and introduction</td>
<td>J Jupiter, R Fricker</td>
</tr>
<tr>
<td>08:15–08:30</td>
<td>The history of the AO Foundation</td>
<td>R Fricker</td>
</tr>
<tr>
<td>08:30–08:45</td>
<td>The history of implant development in the hand</td>
<td>F Suárez Romero</td>
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<tr>
<td></td>
<td><strong>Module 2</strong> Extraarticular fractures of the hand</td>
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<tr>
<td></td>
<td>At the end of this module, participants will be able to:</td>
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<td></td>
<td>- Outline goals of and describe different options for treatment</td>
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<td></td>
<td>- Describe how to successfully manage metacarpal and phalangeal injuries</td>
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<tr>
<td>08:45–09:05</td>
<td>Extraarticular metacarpal fractures</td>
<td>D Campbell</td>
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<tr>
<td>09:05–09:25</td>
<td>Extraarticular phalangeal fractures</td>
<td>R Eckersley</td>
</tr>
<tr>
<td>09:25–09:50</td>
<td>COFFEE BREAK</td>
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<tr>
<td>09:50–10:05</td>
<td>Video on implants and instruments</td>
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<tr>
<td>10:05–10:30</td>
<td><strong>Practical exercise 1</strong></td>
<td>R Fricker</td>
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<td></td>
<td>2.0 lag screw application for the treatment of an oblique diaphyseal metacarpal shaft fracture</td>
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<tr>
<td>10:30–11:05</td>
<td><strong>Practical exercise 2</strong></td>
<td>R Eckersley</td>
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<tr>
<td></td>
<td>Lag screw and neutralization plate of a short oblique metacarpal fracture</td>
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</table>
Module 3  
Articular fractures of the hand

At the end of this module, participants will be able to:
- Describe the different injury mechanisms in articular hand fractures
- Outline treatment options and apply the principles of lag screw application in an unicondylar and a Bennett fracture
- Anticipate treatment complications and discuss how to avoid them

14:00–14:15  
Principles of treating articular fractures in the hand  
F Suárez Romero

14:15–14:30  
Treatment of articular fractures in the thumb  
D Fernandez

14:30–14:50  
Practical exercise 5  
Fixation of an unicondylar proximal phalangeal fracture using a 2 mm lag screw  
M El-Mahy

14:50–15:20  
Practical exercise 6  
Fixation of a Bennett fracture by applying 2 mm lag screws  
L Nagy

15:20–15:45  
COFFEE BREAK

15:45–16:15  
Practical exercise 7  
Management of a Rolando fracture using a 2 mm T-adaption plate  
J González del Pino

16:15–17:15  
Discussion groups  
Management principles of hand fractures

Tuesday December 8, 2015
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker</th>
</tr>
</thead>
<tbody>
<tr>
<td>08:10–08:35</td>
<td>The evolution of distal radial fracture implants</td>
<td>D Campbell</td>
</tr>
</tbody>
</table>
| 08:35–09:15  | **Practical exercise 8**  
Indirect reduction of a distal radial fracture              | T Axelrod               |
| 09:15–09:35  | Radiographic anatomy of the distal radius and wrist joint               | S Warrier                |
| 09:35–09:50  | Classification of distal radial fractures                               | R Eckersley             |
| 09:50–10:05  | Insufficiency fractures in the elderly                                  | D Ring                   |
| 10:05–10:30  | COFFEE BREAK                                                            |                          |
| 10:30–10:55  | Management principles of articular fractures                            | T Axelrod               |
| 10:55–11:10  | Dorsal and palmar double plating—indications and techniques            | R Eckersley             |
| 11:10–11:30  | Associated carpal injuries in distal radial fractures                   | A Chin                   |
| 11:30–11:45  | Palmar or dorsal approach—how should you decide?                        | T Fischer               |

**GREEN TEAM**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker</th>
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</thead>
</table>
| 07:30–08:00  | TRANSFER TO HOSPITAL:  
Meeting point 07:25 main entrance Congress Center  
Preparation for the anatomical specimen laboratory |                          |
| 08:00        | **Anatomical specimen laboratory**                                      |                          |
|              | At the end of these sessions, participants will be able to:              |                          |
|              | - Identify the relevant anatomy and use the appropriate surgical        |                          |
|              |   approaches                                                             |                          |
|              | - Correctly use the implants and instruments                             |                          |
| 08:00–08:15  | Introduction to practicals with anatomical specimen                     | J Jupiter                |
| 08:15–09:00  | Distal ulnar shortening osteotomy                                        | L Nagy                   |
| 09:00–09:45  | Application of a variable angle 2-column distal radial plate            | F Nuñez Vasquez          |
| 09:45–10:25  | Fixation using variable angle dorsal distal radial plates               | D Fernandez             |
| 10:25–11:10  | Application of a variable angle intercarpal fusion plate                | H Hastings               |
| 11:10–11:50  | Application of a 2.0 distal ulnar plate                                 | P Jørgsholm             |
### RED TEAM

**13:45–13:55**  
TRANSFER TO HOSPITAL:  
Meeting point 13:45 main entrance Congress Center  
Preparation for the anatomical specimen laboratory

**Anatomical specimen laboratory**

At the end of these sessions, participants will be able to:  
- Identify the relevant anatomy and use the appropriate surgical approaches  
- Correctly use the implants and instruments

**14:00–14:15**  
Introduction to practicals with anatomical specimen  
D Campbell

**14:15–15:00**  
Distal ulnar shortening osteotomy  
T Fischer

**15:00–15:45**  
Application of a variable angle 2-column distal radial plate  
R Eckersley

**15:45–16:25**  
Fixation using variable angle dorsal distal radial plates  
T Axelrod

**16:25–17:10**  
Application of a variable angle intercarpal fusion plate  
J González del Pino

**17:10–17:50**  
Application of a 2.0 distal ulnar plate  
D Campbell

### GREEN TEAM

**14:00–14:10**  
Review of day 1  
P Jørgsholm

**14:10–14:35**  
The evolution of distal radial fracture implants  
M Kastelec

**14:35–15:15**  
**Practical exercise 8 (repeat)**  
**Indirect reduction of a distal radial fracture**  
M Kastelec

**15:15–15:35**  
Radiographic anatomy of the distal radius and wrist joint  
R Bolanos

**15:35–15:50**  
Classification of distal radial fractures  
F Suárez Romero

**15:50–16:05**  
Insufficiency fractures in the elderly  
F Nuñez Vasquez

**16:05–16:30**  
COFFEE BREAK

**16:30–16:55**  
Management principles of articular fractures  
H Hastings

**16:55–17:10**  
Dorsal and palmar double plating—indications and techniques  
J Jupiter
<table>
<thead>
<tr>
<th>TIME</th>
<th>AGENDA ITEM</th>
<th>WHO</th>
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<tbody>
<tr>
<td>17:10–17:30</td>
<td>Associated carpal injuries in distal radial fractures</td>
<td>M Kastelec</td>
</tr>
<tr>
<td>17:30–17:45</td>
<td>Palmar or dorsal approach—how should you decide?</td>
<td>F Nuñez Vasquez</td>
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</table>

**Wednesday, December 9, 2015**

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<thead>
<tr>
<th>TIME</th>
<th>AGENDA ITEM</th>
<th>WHO</th>
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<tbody>
<tr>
<td>08:00–08:10</td>
<td>Review of day 2</td>
<td>J Jupiter</td>
</tr>
<tr>
<td>08:10–09:00</td>
<td>Panel discussion on distal radial fractures</td>
<td>Moderator: D Campbell J González del Pino; R Bolanos; D Ring; D Fernandez</td>
</tr>
<tr>
<td><strong>Module 5</strong></td>
<td><strong>Distal ulnar fractures</strong></td>
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<tr>
<td>09:00–09:20</td>
<td>Distal ulnar fractures</td>
<td>D Campbell</td>
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<tr>
<td>09:20–09:40</td>
<td>Distal radioulnar joint: anatomy, instability and osteoarthritis</td>
<td>M El-Mahy</td>
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<tr>
<td>09:40–10:05</td>
<td>COFFEE BREAK</td>
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<tr>
<td><strong>Module 6</strong></td>
<td><strong>Carpal injuries</strong></td>
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<tr>
<td>10:05–10:25</td>
<td>Management of acute fractures of the scaphoid</td>
<td>D Fernandez</td>
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<tr>
<td>10:25–10:45</td>
<td>Scaphoid non-union</td>
<td>T Fischer</td>
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<tr>
<td>10:45–11:20</td>
<td>Practical exercise 9</td>
<td>M Kastelec</td>
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<tr>
<td>11:00–11:20</td>
<td>Fixation of a scaphoid waist fracture with a headless compression screw</td>
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<tr>
<td>11:20–11:40</td>
<td>Treating other carpal fractures</td>
<td>I Dahabra</td>
</tr>
<tr>
<td>11:40–12:00</td>
<td>Perilunate injuries</td>
<td>A Chin</td>
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<tr>
<td>TIME</td>
<td>AGENDA ITEM</td>
<td>WHO</td>
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<tr>
<td>12:00–14:00</td>
<td>LUNCH BREAK</td>
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<td>Module 7</td>
<td><strong>Reconstructive options</strong></td>
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<td></td>
<td>At the end of this module, participants will be able to:</td>
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<td></td>
<td>- Define the indications for partial and total wrist arthrodesis</td>
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<td>- Discuss the relevant factors in patient selection</td>
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<td>- Describe the surgical approach and available techniques</td>
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<tr>
<td>14:00 – 14:20</td>
<td>Arthrodesis of the wrist—indications, techniques, and outcomes</td>
<td>T Fischer</td>
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<tr>
<td>14:20 – 15:00</td>
<td><strong>Practical exercise 10</strong></td>
<td>A Chin</td>
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<tr>
<td></td>
<td><strong>Radiocarpal arthrodesis</strong></td>
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<tr>
<td>15:00 – 15:20</td>
<td>Intercarpal arthrodesis—procedures, indications, and techniques</td>
<td>J González del Pino</td>
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<tr>
<td>15:20 – 15:40</td>
<td>Ulnar abutment</td>
<td>P Jørgsholm</td>
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<tr>
<td>15:40 – 16:00</td>
<td>The AO Surgery Reference</td>
<td>L Veum</td>
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<td>16:00 – 16:30</td>
<td>COFFEE BREAK</td>
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<tr>
<td>16:30 – 17:30</td>
<td>Discussion groups</td>
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<td></td>
<td><strong>Complex problems of the wrist</strong></td>
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#### Thursday December 10, 2015

<table>
<thead>
<tr>
<th>TIME</th>
<th>AGENDA ITEM</th>
<th>WHO</th>
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<tbody>
<tr>
<td>08:00–08:10</td>
<td><strong>Review of day 3</strong></td>
<td>T Axelrod</td>
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<tr>
<td>Module 8</td>
<td><strong>Complex hand injuries and complications</strong></td>
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<td></td>
<td>At the end of this module, participants will be able to:</td>
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<tr>
<td></td>
<td>- Outline treatment goals and principles for open fractures</td>
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<td></td>
<td>- Describe the application of bone substitutes and their risks and benefits</td>
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<tr>
<td>08:10–08:35</td>
<td>Digital malunion and nonunion</td>
<td>J González del Pino</td>
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<tr>
<td>08:35–09:00</td>
<td><strong>Demonstration</strong></td>
<td>J González del Pino</td>
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<td>Rotational correction by plate application</td>
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<tr>
<td>09:00–09:45</td>
<td><strong>Practical exercise 11</strong></td>
<td>F Nuñez Vasquez</td>
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<tr>
<td></td>
<td><strong>Management of bone defect in the proximal phalanx with bone graft and a 1.3 adaption plate</strong></td>
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<tr>
<td>09:45–10:05</td>
<td>The influence of implant surfaces</td>
<td>G Richards</td>
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<tr>
<td>10:05–10:30</td>
<td>COFFEE BREAK</td>
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<tr>
<td>10:30–10:50</td>
<td>Management of simple open fractures</td>
<td>S Warrier</td>
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<tr>
<td>10:50–11:15</td>
<td>Principles of management of combined injuries</td>
<td>H Hastings</td>
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<tr>
<td>11:15–12:00</td>
<td>Discussion groups</td>
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<td></td>
<td>Management of complex hand injuries</td>
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<tr>
<td>12:00–14:00</td>
<td>LUNCH BREAK</td>
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<tr>
<td>Module 9</td>
<td>Elective reconstruction</td>
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<td>At the end of this module, participants will be able to:</td>
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<tr>
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<td>- Formulate the goals, indications, and positioning of an arthrodesis</td>
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<td>- Evaluate the benefits, limitations, and complications of different</td>
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<td>fixation methods</td>
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<tr>
<td>14:00–14:20</td>
<td>Digital arthrodesis—indications and techniques</td>
<td>A Chin</td>
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<tr>
<td>14:20–14:45</td>
<td>Practical exercise 12</td>
<td>R Bolanos</td>
</tr>
<tr>
<td></td>
<td>Tension band arthrodesis of PIP joint</td>
<td></td>
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<tr>
<td>14:45–15:15</td>
<td>Practical exercise 13</td>
<td>A Chin</td>
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<tr>
<td></td>
<td>Arthrodesis of MCP joint (thumb) using a locking compression plate (LCP) 2.0</td>
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<tr>
<td>15:15–15:30</td>
<td>Tips and tricks in hand fracture management</td>
<td>L Nagy</td>
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<tr>
<td>15:30–15:50</td>
<td>COFFEE BREAK</td>
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<tr>
<td>15:50–16:15</td>
<td>Management of PIP joint fractures including secondary reconstruction</td>
<td>H Hastings</td>
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<tr>
<td>16:15–17:00</td>
<td>Discussion groups</td>
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<td></td>
<td>Reconstructive surgery</td>
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<tr>
<td>18:00</td>
<td>AO WORLD night</td>
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**Friday, December 11, 2015**

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<tr>
<th>TIME</th>
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<tbody>
<tr>
<td>08:00–08:10</td>
<td>Review of day 4</td>
<td>H Hastings</td>
</tr>
<tr>
<td>08:10–10:00</td>
<td>Practical new Synbone model: multifragmentary distal intraarticular radius fracture and discussion of different techniques used by the</td>
<td>? on the end of the course</td>
</tr>
</tbody>
</table>
Module 10  Distal radial malunion

At the end of this module, participants will be able to:
- Identify the most common deformities and their consequences
- Evaluate the indications and contraindications of surgical correction
- Outline principles of corrective osteotomy of the distal radius

12:30–12:50  Malunion of the distal radius—identification and decisions  F Nuñez Vasquez
12:50–13:20  Malunion of the distal radius—treatment planning  L Nagy
13:20–13:40  Malunion of the distal radius—surgical technique and tips  D Fernandez
13:40–14:40  Practical exercise 14 Corrective osteotomy of a distal radial malunion and application of bone graft  R Fricker
14:40–15:00  Malunion of the distal radius—articular malunion  J Jupiter
15:00–15:15  Summary and closure of the course  J Jupiter R Fricker

CME Accreditation

An application has been made to the UEMS—EACCME for CME accreditation of this event.

The number of credit points or hours varies from country to country. The final information and number of credit points will be distributed with the course certificate
Course logistics

Industrial Partner
DePuy Synthes
Luzernstrasse 21
4528 Zuchwil, Switzerland
Tel +41 32 720 40 60
Fax +41 32 720 46 89
Website www.depuysynthes.com

Course venue

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

General information
Sunday 12:00–17:00
Monday to Thursday 07:30–19:00
Friday 07:30–18:00

AO World and Industry exhibition
Sunday 12:00–17:00
Monday to Friday 09:00–11:00 – 12:00–18:00

Business center

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

Services
- Internet and e-mail access
- Printer access
- www.aotrauma.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 28 70
E-mail it.support@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 print screen 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.
Course information

Course fee
AOTrauma Masters Course—Current Concepts—Upper Extremity CHF 4350.
Included in the course fee are conference bag with documentation, coffee breaks, lunches, and AO World Night.

CME accreditation
An application has been made to the UEMS-EACCME for CME accreditation of this event.

Evaluation guidelines
All AOTrauma courses apply the same evaluation process with paper and pencil questionnaires. This will help AOTrauma to ensure that we continue to meet your training needs. In some regions, CME accreditation is dependent on the participant’s evaluation results.

Intellectual property
Course materials, presentations, and case studies are the intellectual property of the course 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 course 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, workshops, and group discussions.

No insurance
The course 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 2015, the best from last year's courses, and a selection of photographs from the first ever AO Davos Courses.

Dress code
Davos: warm clothes and suitable shoes are advisable.

Hotels
Participants who have not booked a package including hotel should settle their hotel bill directly when checking out.

CWT travel office
The CWT travel office will support you with flight confirmation or re-booking.
Exhibitions

**AO World**
Visit the AO World in the main foyer of the Congress Center to explore the AO's Clinical Divisions, Initiatives, and Institutes. Learn more about AOTrauma, AOSpine, AOCMF, AOVET, AORecon and AONeuro. View the wide range of print and electronic publications from the AO Education Institute. And discover ground-breaking research and development work from the AO Research Institute and the AO Technical Commission. While visiting the AO World you can learn about clinical research and take part in a study at the AO Clinical Investigation and Documentation booth. There are lots of opportunities to acquire AO branded merchandise to take home with you.

**Industry exhibitors**
Visit our industry partner DePuy Synthes, and other industry providers Invibio, Hectec GmbH, OPED AG, Siemens, Storz, and Synbone to discover their latest technology advances.
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
- Bisphosphonate-Related Osteonecrosis of the Jaw

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 intra-operative 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

Veterinary Medicine
- Improving osteosynthesis for small 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
• Thermosresponsive gel for delivery of antibiotics, stem cells, growth factors, transfected cells etc.
• 3R – refinement of preclinical studies

For the 2014 AO Research Institute Davos activity report and recent publications go to:
www.aofoundation.org/ari/publications
Sponsors

We would like to thank our partner DePuy Synthes for their support without which this event would not be possible.

A special thanks to our main sponsors:
Audi
Siemens

We also extend our thanks to the following co-sponsors:
BrainLab
Credit Suisse
Synbone
Upcoming AO Courses—Davos 2016

AO Courses—December 4–9, 2016
- 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

AO Courses—December 11–16, 2016
- AOTrauma Course—Basic Principles of Fracture Management for Swiss Surgeons
- AOSpine Courses
- AOcMF Course
- AONeuro Course
- 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 2016.
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

Join us and share your passion