Preliminary event program

AO Foundation Course—Limb Surgery in Disaster and Conflicts for Emergency Medical Teams

Course with Anatomical Specimens

December 8–9, 2017 Davos, Switzerland
Lecture hall: Schiahorn rooms 1-2, Congress Center, Davos
Specimen course: Davos Hospital, Promenade 4, Davos
Mission

Our mission is to continuously set standards in postgraduate medical education and to foster the sharing of medically guided expertise in a worldwide network of healthcare professionals to improve patient care in trauma or disorders of the musculoskeletal system.

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.
Dear AO Foundation course participant

Dear Colleagues,

We are delighted to welcome you to the first AO course designed for orthopedic surgeons planning to respond to disasters and conflicts as part of an emergency medical team. This course is the culmination of a collaboration between the AO, ICRC and the WHO, along with a group of world renowned disaster and war surgeons. An intensive, cadaveric based course, it teaches surgeons how to adapt their practice and techniques for limb injury care in the context of a disaster or conflict setting, working in a field hospital or local hospital in the conflict or disaster. This course will teach many of the practical elements of the techniques described in the recently published “Field Guide for the Management of Limb Injuries in Disasters and Conflicts”.

The AO foundation have supported this project and the creation of this course in recognition that in disaster and conflict response “good intentions are not enough”. That any health specialist, especially those involved in trauma clinical care, must understand the context to which they are deploying, and how to adapt their normal practice for the benefit of the patient who has suffered an injury in a disaster or war. The course will be a blend of two methods of teaching. On one hand it will be interactive and discussion based amongst peers, examining the context and specificities of working with limited resources and other constraints, with expert facilitators with genuine field experience in these settings.

There will also be 50% of the course dedicated to the clinical and technical surgical techniques using a cadaveric lab and resources to be expected in such an environment, facilitated by experts.

We welcome all senior fellows and surgical specialists to the course who have either joined or plan to join an Emergency Medical Team for future missions to disaster and conflict settings. We also thank-you for your commitment and volunteerism to patients affected by disasters and conflicts across the world.

Yours sincerely

Elhanan Bar-On
Director Israel Center for Humanitarian, Emergency and Disaster Medicine, Sheba Medical Center Tel Hashomer, Israel

Ian Norton

Andreas Wladis
International Committee of the Red Cross (ICRC) Ave de la Paix 19, 1202 Geneva, Switzerland
Goal of the course

It has long been conventional wisdom that the lessons of war must be re-learned by each new generation of surgeons. These lessons, particularly regarding care for limb injuries, follow an almost identical approach to what is needed to care for people injured in disasters. Indeed, up to 90% of the surgical workload faced by national and international emergency medical teams in disasters involves limb injury. However, most surgeons in high income countries work in an advanced technologic setting and have little, if any, exposure to the types of injuries encountered in disaster and conflict areas and no experience of operation in austere environments. Therefore, well-intentioned surgical teams can find themselves unprepared for the realities of austere settings. More than ever, they need clear practical guidance on how to adapt what they do on a daily basis, to provide safe and effective limb-injury care in conflicts or disasters. While randomized controlled studies are not possible in these settings there is a wealth of experience among senior practitioners with decades of experience working under similar circumstances for NGOs, militaries, or public hospitals around the world. The Limb injury project supported by the AO foundation has allowed us to distil the knowledge of these experts into a handbook and now a short course for the benefit of national and international responders and more importantly the benefit of those they serve. The course seeks to prepare surgeons to be able to join Emergency Medical Teams (EMTs) responding to natural disasters and conflicts. It blends both technical surgical knowledge using direct cadaveric teaching, with lectures and discussions on safe and appropriate response in the most difficult of situations. It builds on the work of the World Health Organization EMT initiative to ensure all responders work within professional and well trained teams for the benefit of those affected by health emergencies.

Target participants

This event is targeted at certified surgeons and other medical specialists with 3 to 10 years of experience in trauma surgery, and other specialists, who are aiming to further improve their knowledge and/or specialization in the safe and effective management of limb-injuries in conflicts or disasters. Priority will be given to participants who have direct involvement with deployable Emergency Medical Teams, and are highly likely to respond to the next disaster or conflict.

Learning objectives

After the event, participants will be able to:

- Understand the differences of the environment in a disaster or conflict situation
- Understand the injury patterns and pathology confronted with in conflicts and disasters
- Adapt wound and limb injury management techniques to the specific contexts of disaster and conflict
- Understand the logistics, cultural and ethical dilemmas faced by surgical teams responding in such contexts.

Course description

Skills-based curriculum including specimen workshops, discussions, lectures and dry-bone workshops. Prepare participants to respond to controversies and improve trauma teams’ practical approaches to the wounds and orthopedic injuries they will face when responding to the next disaster or conflict.
Chairpersons

Ian Norton  
Manager Emergency Medical Teams,  
Emergency Management and Operations,  
World Health Organization  
Geneva, Switzerland

Elhanan Bar-On  
Director Israel Center for Humanitarian,  
Emergency and Disaster Medicine,  
Sheba Medical Center  
Tel Hashomer, Israel

Andreas Wladis  
International Committee of the Red Cross (ICRC)  
Ave de la Paix 19, 1202  
Geneva, Switzerland

Regional Faculty

Alan Kay  
Royal Centre for Defence Medicine, Birmingham, United Kingdom

Inga Osmers  
Medcines Sans Frontieres, Berlin, Germany

Waseem Saeed  
The Harley Street Clinic, London, and The Wilmslow Hospital, Manchester, and Plastic Surgeon British Red Cross, United Kingdom

Michael Schütz  
Charité, Centrum für Muskuloskeletal Chirurgie, Berlin, Germany
Day 1: Friday, December 8, 2017

<table>
<thead>
<tr>
<th>TIME</th>
<th>AGENDA ITEM</th>
<th>WHO</th>
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<tbody>
<tr>
<td>14:30–14:45</td>
<td>Introduction to course, and people</td>
<td>I Norton</td>
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<tr>
<td>14:45–15:15</td>
<td>Introduction to EMTs concept and principles of triage/mass casualty and disaster/conflict response</td>
<td>I Norton</td>
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<td>15:15–15:45</td>
<td>Adapting surgical practice to austere environments</td>
<td>E Bar-On</td>
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<td>15:45–16:15</td>
<td>Introduction to ballistics and blast</td>
<td>A Wladis</td>
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<td>16:15–16:30</td>
<td>COFFEE BREAK</td>
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<td>16:30–18:20</td>
<td><strong>Technical Challenges:</strong> Case discussions in small groups on</td>
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<tr>
<td></td>
<td>• Closed and open fractures</td>
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<td></td>
<td>• Wound management</td>
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<td></td>
<td>• Managing severe bone and tissues loss</td>
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<td>• Damage control and resuscitation</td>
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<td>• Ischaemia and crush injuries</td>
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<td>• Anaesthesia and pain management</td>
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<td>• Infectious disease &amp; non-communicable disease</td>
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<td>18:20–18:30</td>
<td>Close of the day</td>
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## Day 2: Saturday, December 9, 2017

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<tr>
<th>TIME</th>
<th>AGENDA ITEM</th>
<th>WHO</th>
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<tbody>
<tr>
<td>07:30–07:45</td>
<td>BUS FROM CONGRESS CENTER TO DAVOS HOSPITAL</td>
<td>ALL FACULTY</td>
</tr>
<tr>
<td>07:45–08:00</td>
<td>Change into scrub suits</td>
<td>All faculty</td>
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<tr>
<td>08:00–08:20</td>
<td>Traction</td>
<td>E Bar-On</td>
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<tr>
<td>08:20–09:20</td>
<td>ExFix</td>
<td>M Schütz</td>
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<tr>
<td>09:20–10:00</td>
<td>Fasciotomy</td>
<td>A Kay</td>
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<tr>
<td>10:00–10:30</td>
<td>COFFEE BREAK</td>
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<tr>
<td>10:30–11:30</td>
<td>Shunts</td>
<td>A Kay, A Wladis</td>
</tr>
<tr>
<td>11:30–12:30</td>
<td>Skin grafts and flaps</td>
<td>A Kay, W Saeed</td>
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<td>12:30–12:45</td>
<td>BREAK</td>
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<tr>
<td>12:45–13:45</td>
<td>Debridement and wounds</td>
<td>All faculty</td>
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<td>13:45–14:45</td>
<td>Amputation</td>
<td>I Osmers</td>
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<td>14:45–15:15</td>
<td>BUS TRANSFER FROM THE HOSPITAL TO THE CONGRESS CENTER</td>
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<td>14:45–15:15</td>
<td>LUNCH BREAK</td>
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<td>15:15–16:45</td>
<td><strong>Challenges in the field (incl. Rehab):</strong></td>
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<td>a series of case discussions</td>
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<td></td>
<td>• Logistics</td>
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<td>• Ethical dilemmas</td>
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<td></td>
<td>• Being in a team</td>
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<tr>
<td>16:45–17:00</td>
<td>Wrap-up, evaluations, close</td>
<td>I Norton</td>
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</tbody>
</table>
Event organization

**AO Foundation**
AO Education Institute
Jane Thorley-Wiedler PhD
Stettbachstrasse 6
9600 Dübendorf

Phone   +41 44 2002 404
Fax      +41 200 24 12
Email    jane.wiedler@aofoundation.org
www.aofoundation.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 assessment. We rely on industrial/commercial partners for in-kind support to run simulations/skills training if educationally needed.

Event venue

**Congress Center Davos**
Talstrasse 49a
7270 Davos Platz

Phone   +41 081 415 21 60
www.davoscongress.ch

**Davos Hospital**
Promenade 4
7270 Davos Platz

Phone   +41 081 414 88 88
www.spitaldavos.ch
General information

Event fee
AO Foundation Course—Limb Surgery in Disaster and Conflicts for Emergency Medical Teams: CHF 900.–

Included in the course fee are a course bag with course material, coffee breaks, lunches, course certificate.

Registration
http://DAVOS1712_EMT.aotrauma.org

European CME Accreditation
An application has been made to the UEMS-EACCME® in Brussels for CME accreditation of this event.

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

Evaluation guidelines
All AO Foundation events apply the same evaluation process, an online pre- and post-event evaluation and an on-site paper and pencil questionnaire. This helps the AO Foundation to ensure that we continue to meet your training needs.

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 may 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 course organization does not take out insurance to cover any individual against accidents, theft, or other risks.

Mobile phone use
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.

Dress code
Casual
Exhibitions

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

**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.

Sunday 15:00–17:00  
Monday to Wednesday 09:00–17:00  
Thursday 09:00–20:30  
Friday 09:00–15:30

**Industry exhibition**
Visit the exhibitions of our major industry partners DePuy Synthes and Siemens, who are also contributing in-kind support (material and logistics), and Ethicon who is providing in-kind support of the anatomical specimen lab (material).

Sunday 15:00–19:00  
Monday to Wednesday 09:00–17:00  
Thursday 09:00–18:00  
Friday 09:00–15:30

**Media exhibitors**
Lehmans Media can be found at the entrance to the Congress Center.
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 Healthcare Professionals (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.
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.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.helpdesk@aofoundation.org
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.

Other sources of funding:

- AO Foundation Educational Grant
- DePuy Synthes: In-kind support to conduct simulations (material)
- Siemens: Unrestricted Educational Grant
- Siemens: In-kind support to anatomical specimen lab (C-arm and logistical support)
- Ethicon: In-kind support to anatomical specimen lab (material)
- DePuy Synthes: Exhibitor
- Siemens: Exhibitor
- Ethicon: Exhibitor
- Invibio: Exhibitor
- Moticon GmbH: Exhibitor
- Carl Zeiss AG: Exhibitor
- SYNBONE: Exhibitor
- Lehmanns Media: Exhibitor
- Victorinox: Exhibitor
- ICUC: Exhibitor

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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.

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