Course program

AOCMF Course—Raising of Microvascular Bone Flaps after Virtual Planning (with Human Anatomical Specimens)

June 4–June 5, 2016  Hamburg, Germany
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.
Welcome

On behalf of AOCMF (the craniomaxillofacial clinical division of the AO Foundation), it is my pleasure to personally welcome you to this course. Each year, AOCMF provides over 110 educational opportunities to more than 4,500 passionate surgeons worldwide.

The mission of AOCMF is excellence in facial surgery across the specialties. We encourage the involvement of all interested professions, including oral and maxillofacial surgery, plastic surgery, ENT, oculoplastic surgery, and neurosurgery. To achieve our mission, we are committed to remaining at the forefront of education and new developments, by offering remarkable learning and networking experiences focusing on craniomaxillofacial trauma and reconstruction.

Through our courses, membership program, and our website, our goal is to encourage and inspire surgeons—including residents, fellows, and practitioners—to pursue fulfilling careers in our field. In addition, we endeavor to provide lifelong learning opportunities and career development options for more experienced specialists in the most appropriate and useful ways as their needs evolve.

Your role is vital to improving patient care. We hope that your experience with our faculty, chairs, and your peers over the next few days will bring new knowledge, skills, and understanding that you can directly apply to your own practice. We look forward to your participation and encourage you to share your ideas, unique perspectives, and opinions, to help build and enhance our dynamic community, and contribute to the further development of craniomaxillofacial surgery.

I wish you an outstanding learning experience.

Yours sincerely,

Warren Schubert
Chairman AOCMF International
The course teaches the workflow of virtual planning for midface and mandibular resections and reconstruction with individualized microvascular bone flaps, including flap harvesting in human anatomical specimens and fixation with individual plates in the mandible and standard miniplates in the midface.

**Goal of the course**

The course teaches the workflow of virtual planning for midface and mandibular resections and reconstruction with individualized microvascular bone flaps, including flap harvesting in human anatomical specimens and fixation with individual plates in the mandible and standard miniplates in the midface.

**Target participants**

This course is aimed at fully qualified medical specialists in craniomaxillofacial surgery or head and neck surgery (with at least 3 years of experience).

**Course objectives**

After the course, participants should be able to:

- Follow the virtual planning process of mandibular resection and reconstruction
- Harvest iliac crest and scapula flaps with individual guides on human anatomical specimens
- Transplant the flaps to defects in bone models using individual plates in the mandible and standard miniplates in the midface

**Course description**

Lectures cover the various virtual workflows in head and neck surgery, microsurgical techniques, anatomy and harvesting of iliac crest and scapula flaps as advanced donor sites. Discussions focus on difficult cases and the various state-of-the-art aspects of free flap procedures. Three participants will share one-half of an anatomical specimen for the flap harvesting.
Course director

Max Heiland
Head of Department of Oral and Maxillofacial Surgery
University Medical Center Hamburg-Eppendorf
Hamburg, Germany

Course chair

Gerson Mast
Ludwig-Maximilians-Universität
Department of Oral and Maxillofacial Surgery
Munich, Germany

Faculty regional

Marius Bredell, Senior Consultant, Craniofacial and Oral Surgery, Clinic for Craniofacial and Oral Surgery, Zurich, Switzerland
Alicia Dean Ferrer, Head of Department of Oral and Maxillofacial Surgery, University Hospital Queen Sofia, Córdoba, Spain
Satyesh Parmar, Consultant, Maxillofacial Surgery, Queen Elizabeth Hospital, Birmingham, United Kingdom
Dennis Rohner, Senior Consultant, Craniofacial Center, Hirslanden Medical Center, Aarau, Switzerland
Max Witjes, Oral & Maxillofacial Surgery, University Medical Center Groningen, Groningen, Netherlands

Faculty national

Alexandre Assaf, Dept. of Oral- and Maxillofacial Surgery, University Medical Center Hamburg-Eppendorf, Hamburg, Germany
Alexander Gröbe, Dept. of Oral- and Maxillofacial Surgery, University Medical Center Hamburg-Eppendorf, Hamburg, Germany
Henning Hanken, Dept. of Oral- and Maxillofacial Surgery, University Medical Center Hamburg-Eppendorf, Hamburg, Germany
Majeed Rana, Dept. of Craniofacial Surgery, Hanover Medical School, Hanover, Germany

Course organization

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## Day 1, June 4, 2016

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<thead>
<tr>
<th>TIME</th>
<th>AGENDA ITEM</th>
<th>WHO</th>
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<tbody>
<tr>
<td>08:30–08:45</td>
<td>Welcome address, introduction of the faculty, course objectives</td>
<td>M Heiland</td>
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<tr>
<td>08:45–09:00</td>
<td>AO History, structure and membership</td>
<td>G Mast</td>
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<tr>
<td>09:00–09:30</td>
<td>The Anatomy of the donor site - Pelvis</td>
<td>M Rana</td>
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<tr>
<td>09:30–10:00</td>
<td>Anatomy of the donor site - Scapula</td>
<td>M Bredell</td>
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<tr>
<td>10:00–10:30</td>
<td>Mandible reconstruction</td>
<td>G Mast</td>
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<tr>
<td>10:30–10:50</td>
<td><strong>COFFEE BREAK</strong></td>
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<tr>
<td>10:50–11:05</td>
<td>CAD CAM Workflow</td>
<td>A Gröbe</td>
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<tr>
<td>11:05–12:20</td>
<td>Interactive Planning Session: Virtual Planning - reconstruction</td>
<td>H Hanken</td>
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<tr>
<td>12:20–13:00</td>
<td><strong>LUNCH BREAK</strong></td>
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<tr>
<td>13:00–15:00</td>
<td><strong>Practical Session (dry bone)</strong> Reconstruction of mandibular defect with fibula transplant and individual implant</td>
<td>A Gröbe</td>
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<tr>
<td>15:00–15:30</td>
<td><strong>COFFEE BREAK</strong></td>
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<tr>
<td>15:30–18:00</td>
<td><strong>Practical Session (cadaver)</strong> Harvesting of the iliac crest flap and reconstruction of segmental defect with individual plate</td>
<td>S Parmar</td>
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<tr>
<td>18:00–18:10</td>
<td>Evaluation and wrap up, end of day 1</td>
<td>G Mast</td>
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### Day 2, June 5, 2016

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<thead>
<tr>
<th>TIME</th>
<th>AGENDA ITEM</th>
<th>WHO</th>
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<tbody>
<tr>
<td>08:00–08:15</td>
<td>Objectives of Day 2 (and Evaluation)</td>
<td>M Heiland</td>
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<tr>
<td>08:15–09:00</td>
<td>Midface reconstruction</td>
<td>A Dean</td>
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<tr>
<td>09:00–13:00</td>
<td><strong>Practical Session (cadaver)</strong></td>
<td>M Bredell</td>
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<tr>
<td></td>
<td>Harvesting of the scapula flap, reconstruction of midfacial defect with matrix midface plates</td>
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<td>13:00–13:40</td>
<td><strong>LUNCH BREAK</strong></td>
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<tr>
<td>13:40–14:10</td>
<td>Dental implants in microvascular flaps</td>
<td>D Rohner</td>
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<td>14:10–14:40</td>
<td>Microsurgical techniques</td>
<td>S Parmar</td>
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<tr>
<td>14:40–15:00</td>
<td>Pros and cons of primary versus secondary reconstruction</td>
<td>M Heiland</td>
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<tr>
<td>15:00–15:20</td>
<td>CAD/CAM and radiotherapy</td>
<td>M Witjes</td>
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<td>15:20–15:50</td>
<td><strong>COFFEE BREAK</strong></td>
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<tr>
<td>15:50–16:00</td>
<td>Introduction of discussion groups</td>
<td>M Heiland</td>
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<td>16:00–18:20</td>
<td><strong>Discussion groups (state of the art in free flap)</strong></td>
<td>M Heiland</td>
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<td>Donor site closure and long-term morbidity</td>
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<tr>
<td>16:00–18:20</td>
<td><strong>Discussion groups (state of the art in free flap)</strong></td>
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<td>Anticoagulation and monitoring</td>
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<td>16:00–18:20</td>
<td><strong>Discussion groups (state of the art in free flap)</strong></td>
<td>G Mast</td>
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<td>Second choice in failure</td>
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<tr>
<td>16:00–18:20</td>
<td><strong>Discussion groups (state of the art in free flap)</strong></td>
<td>M Rana</td>
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<td>Value of CAD/CAM workflow</td>
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<tr>
<td>18:20–18:30</td>
<td>Wrap up, closing remarks, evaluation, end of course</td>
<td>G Mast</td>
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Course logistics

Industrial Partner
Johnson & Johnson Medical GmbH
Geschäftsbereich DePuy Synthes
Im Kirchenhürstle 4-6
D-79224 Umkirch, Germany
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Technical Course Support: Antonio De Lellis
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Fax: +49 7665 503-193
Email: stork.kathrin@ao-courses.com

Course information

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

Evaluation guidelines
All AOCMF courses apply the same evaluation process, either ARS (audience response system) or paper and pencil questionnaires. This will help AOCMF 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.

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 check 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.

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.

Transportation
Not provided for participants

Dress code
Casual

Course language
English
Course venue

University Medical Center Hamburg-Eppendorf
Anatomical Institute, Building N61
Martinistraße 52
D-20246 Hamburg, Germany

http://www.uke.de
Course registration

Please register online at:
http://hamburg0616.aocmf.org/

Course fee

EUR 1’900.–
Includes coffee breaks, lunch, course material, and certificate.
Notes
Excellence in facial surgery across the specialties

AOCMF membership

Participation in the AOCMF community guarantees life-long learning opportunities and continuous professional development.

Online access to scientific journals
Stay up to date on the latest practices and advancements in the field of craniomaxillofacial surgery.

Online case discussions
Participate in the interactive exchange of professional opinions.

AOCMF Videos
Make use of our multimedia teaching and learning materials.

AOCMF Journal
Craniomaxillofacial Trauma and Reconstruction publishes primary and review articles covering all aspects of surgery of the head, face, and jaw. Available free of charge to all AOCMF members.

AO Publications
Take advantage of special discounts and free offers for AOCMF members.

AO Surgery Reference
See surgical procedures explained step by step.

Precondition
The prerequisite for becoming a part of the AOCMF membership community is attendance at one certified AOCMF education event.

Membership types
AOCMF Affiliate (CHF 40) no prerequisite
AOCMF e-Member (CHF 40)
AOCMF Member (CHF 75)

Providing a common ground for excellence in craniomaxillofacial surgery