

Preliminary Program

AOCMF Course — Computer Aided Maxillofacial Surgery (with Human Anatomic Specimens)

April 22 – 24, 2016

Hilton Tampa Downtown

CAMLS

Tampa, Florida



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AO North America
1700 Russell Road
Paoli, PA 19301

www.aona.org

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A letter from the AO CMF North America Education Council Chairperson

As Chairperson of the AO North America Craniomaxillofacial (CMF) Council, I would like to take this opportunity to share with you some thoughts on AO Education.



Founded in Switzerland in 1958 under the name "Arbeitsgemeinschaft für Osteosynthesefragen", the AO today is the world leader in the study of stable internal fixation and is known as the "Association in Osteosynthesis".

AO North America (AONA®) is a non-profit organization based on a network of surgeons committed to the study, practice, and teaching of AO principles and their advancement in the field of trauma and reconstructive surgery; working in the areas of research, development, education and quality assurance for the benefit of improving patient care.

The focus is to develop and support graduate and post-graduate education. AONA is an accredited CME provider and is committed to providing the highest quality education for surgeons at all stages of their development. AONA offers a comprehensive spectrum of education activities to support surgeons who strive to be lifelong learners. AONA is dedicated to providing the highest quality educational experience for course participants and Faculty. This is evidenced by the AONA Craniomaxillofacial Systematic Education Approach as described below:

Within the AONA CMF organization, the three primary specialties, oral and craniomaxillofacial surgery, otolaryngology/head and neck surgery, and plastic and reconstructive surgery meet on a constructive basis and develop a joint approach. Recently oculoplastic surgeons and neurosurgeons have joined the organization to further enhance the educational opportunities.

AONA CMF courses are designed to teach principles and techniques at both the theoretical and practical levels. The aim is not to popularize the use of indiscriminate surgical fixation but instead to evaluate scientifically its place in the care of the sick or injured, and to refine surgical practice for optimized patient outcomes. These courses include the annual Advanced Symposium (Level III), Challenges and Advances courses (Level II) and the Principles courses (Level I).

Principles Course Objectives (Level I)

- Describe the principles of stable internal fixation as outlined by the AO
- Define the biological and mechanical aspects of fracture healing
- Discuss the problems, complications and intraoperative difficulties that can result from internal fixation
- Explain preoperative planning methods and outcome analysis
- Apply the psychomotor skills developed in the practical exercises into surgical practice

These objectives are reached through lectures, hands-on exercises, panels and small group discussions. This course is designed for Junior Residents, Fellows and Practicing Surgeons looking to refresh their skills. The course presents the basic information regarding the AO Principles of Stable Internal Fixation:

- Anatomic Reduction of the fracture fragments, particularly joint fractures
- Stable fixation to ensure proper healing of the fracture allowing surrounding tissue to move and strengthen
- Atraumatic surgical technique to preserve blood supply to the bone fragments and soft tissue
- Early, pain free mobilization returning the patient to function as soon as possible

Challenges and Advances Objectives (Level II) are determined by the programs. Examples of courses offered to date include: Cadaver Practical Workshops, Distraction Osteogenesis, Orthognathic, Navigation, Pre surgical Planning and Patient Specific Implants, Orbital Reconstruction, Management of Ballistic trauma, and Pediatrics to name a few. These courses are conducted both didactically and with practical exercises (most with cadavers) and also provide opportunities for panels and small group discussions. These courses are designed for Practicing Surgeons, Fellows and Residents that have completed the Principles course.

The annual Advanced Symposium (Level III) is conducted to address the most challenging issues facing surgeons today. The program is didactic and allows time for small group discussions to assist surgeons in understanding how best to address their concerns. This course is geared towards the Practicing Surgeons, Fellows and most senior Residents.

We hope you will take every opportunity to attend these programs designed to assist you in providing improved patient care.

Sincerely,

A handwritten signature in black ink, appearing to read 'D. Farwell', with a stylized, cursive script.

D. Gregory Farwell, MD, FACS
Chairperson, AOCCMF North America Education Council

CME Mission Statement

The Continuing Medical Education (CME) mission of AO North America (AONA®) is to provide comprehensive multidisciplinary needs-based education to surgeons, fellows, and residents in the specialties of orthopedic, hand, craniomaxillofacial, spine, neurosurgery, and veterinary surgery in the areas of trauma (i.e., operative reduction and fixation), degenerative disorders, deformities, tumors, and reconstruction.

Expected results of AONA's CME activities for surgeons, fellows, and residents are to:

- Increase their knowledge base and surgical skill level
- Improve competence by applying advances of knowledge in patient care in the areas of trauma, degenerative disorders, deformities, tumors, and reconstructive surgical techniques
- Address practice performance gaps by improving management of all aspects of musculoskeletal injuries and disorders (i.e., pre-operative planning to post-operative care)



Course Description And Statement Of Need

Stereotactic guidance for intracranial surgery dates back to the early 1900's. These navigation systems increase surgical precision and are commonly used for neurosurgery and endoscopic sinus surgery. Hardware/software advances have opened the door for computer Aided surgery to be used in maxillofacial surgery. Applications include complex congenital, post-traumatic, and post-oncologic restoration of facial symmetry; particularly when working around the orbit, naso-orbito-ethmoid, and zygomaticomaxillary complex, and mandible (orthognathic surgery).

Pre-surgical planning software allows surgeons to generate a precise 3-dimensional, virtual representation of the skull. The proposed surgical repair (including osteotomies and bone advancements/reconstruction) can then be performed in a virtual environment prior to the actual procedure. The virtual pre-surgical plan can then be used to fabricate implants and cutting/drill guides. It can also be imported into an intra-operative navigational system to help guide movement of bone segments and confirm the location of implants to improve surgical precision.

Intra-operative navigation is currently available at most US institutions, and pre-surgical planning software is becoming more available. There are many publications in the current literature describing the use of these techniques for maxillofacial reconstruction. Unfortunately there are few, if any, opportunities for residents and practicing surgeons to get hands-on experience.

This will be a cadaver based dissection course focusing on computer Aided pre-surgical planning, as well as intra-operative imaging and navigation. There will be a full series of lectures by world renowned experts. A full range of topics will include: Trauma, post oncologic reconstruction, intra-operative imaging and navigation, orthognathic surgery, congenital abnormalities, and facial transplantation. After the lecture series, participants will complete 3 different surgical modules:

- 1) Post traumatic orbito-zygomatic reconstruction
- 2) Mandibular reconstruction (fibula free flap)
- 3) Orthognathic reconstruction.

Participants will first perform a virtual reconstruction (pre-surgical plan) for each scenario. Then participants will move into the cadaver lab to complete the pre-planned surgical repair. The laboratory session will include access to intra-operative imaging tools (navigation, 3D C-arm, and traditional CT) which will give the participants real time feedback during the repair. Finally, the participants will be able to compare their pre-surgical virtual plan to the actual reconstruction.

Target Audience

This course is primarily designed for attending surgeons in the fields of Oral and Maxillofacial Surgery, Otolaryngology, Plastic and Reconstruction, Ophthalmology and Oculoplastics. Senior Residents (PGY 3 and above) and Fellows may also find this course beneficial.

Course Pre-requisite

AOCMF Principles of Operative Treatment of Craniomaxillofacial Trauma and Reconstruction Course and must be a Senior Resident PGY 3 or above.

Learner Objectives

At the conclusion of this course, the participant should be able to:

- Display current knowledge regarding computer Aided surgical planning and intraoperative navigation in the field of maxillofacial surgery
- Identify appropriate applications for computer Aided pre-surgical planning and intraoperative navigation for treatment of traumatic, neoplastic and congenital diseases
- Discuss the applicability of computer Aided techniques when analyzing postoperative results and outcome analysis
- Demonstrate the psychomotor skills necessary to perform both pre-surgical planning and intra-operative navigation
- Generate a pre-surgical plan using computer Aided planning software
- Apply intraoperative navigation to guide fracture reduction and hardware placement
- Evaluate the applicability of computer Aided techniques when analyzing postoperative results and outcome analysis

Accreditation



AO North America is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

Continuing Education Dental Credit Statement

As an Accreditation Council for Continuing Medical Education (ACCME) accredited provider, AO North America meets the definition of a constituent or component organization of the AMA and thereby meets most state dental board requirements of an approved sponsor of continuing education. This course is focused on clinical issues in oral-maxillofacial surgery that are relevant to the treatment and care of dental patients. Most states accept AMA constituents as approved sponsors for continuing dental education credit. If you have questions, your state dental board can confirm eligibility of this course.

Designation Statement

AO North America designates this live educational activity for a maximum of 22.25 *AMA PRA Category 1 Credits™*. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

For Canadian Based Physicians Attending AONA Courses

All live conferences or live courses held outside of Canada can be reported as accredited group learning activities under Section 1 of the MOC Program if they are developed by a university, academy, college, academic institution or physician organization.

Courses sponsored by AO North America meet the criteria of the Royal College of Physicians and Surgeons for accredited group learning activities.

Faculty

The Faculty for this course includes surgeons distinguished in the fields of Oral and Maxillofacial Surgery, Otolaryngology – Head and Neck Surgery, and Plastic and Reconstructive Surgery.

Course Chairperson

Bradley Strong, MD

Professor

Otolaryngology-Head & Neck Surgery

University of California, Davis School of Medicine

Sacramento, California

Course Co-Chairpersons

Daniel Buchbinder, DMD, MD

Professor & Chief

Division of Maxillofacial Surgery

Department of Otolaryngology

Mount Sinai-Beth Israel Medical Center

New York, New York

Eduardo D. Rodriguez, MD, DDS

Helen L. Kimmel Professor of Reconstructive

Plastic Surgery

Chair, Department of Plastic Surgery

NYU School of Medicine

Director, Institute of Reconstructive Plastic Surgery

NYU Langone Medical Center

New York, New York

Course Director

Gorman Louie, MD, FRCSC

Clinical Professor

Division of Plastic Surgery

University of Alberta

Edmonton, Alberta

Faculty (continued)

Oleh Antonyshyn, MD, FRCSC

Head, Craniofacial Program
Professor, Division of Plastic Surgery
University of Toronto
Toronto, Ontario

Edward Ellis, III, DDS, MS

Professor and Chair
Department of Oral and Maxillofacial Surgery
University of Texas Health Science Center
San Antonio, Texas

Neal D. Futran, MD, DMD

Professor and Chair
Department of Otolaryngology-Head & Neck Surgery
Director of Head and Neck Surgery
University of Washington
Seattle, Washington

Jaime Gateno, DDS, MD

Chairman, Department of Oral and Maxillofacial Surgery
Houston Methodist Hospital
Professor of Clinical Surgery
Weill Cornell Medical College
Houston, Texas

Michael Grant, MD, PhD, FACS

Associate Professor of Ophthalmology and Plastic Surgery
Division Head, Oculoplastic Surgery
Director, Ocular & Orbital Trauma Center
Wilmer Eye Institute at Johns Hopkins
Baltimore, Maryland

Richard Hopper, MD, MS

Chief, Division of Pediatric Plastic Surgery
Surgical Director
The Craniofacial Center
Professor
Department of Surgery
University of Washington
Seattle, Washington

Marc Metzger, MD, DMD

University Hospital Freiburg
Freiburg, Germany

Alexander Schramm, Prof. Dr. Dr., MD, DDS

Professor and Chairman
Department of Oral and Maxillofacial Surgery
University Hospital Ulm
Department of Oral and Plastic Maxillofacial Surgery
Military Hospital Ulm
Ulm, Germany

Adam Zanation, MD, FACS

Associate Professor
Vice Chairman for Academic Affairs
Department of Otolaryngology-Head and Neck Surgery
University of North Carolina
Chapel Hill, North Carolina

Chenping Zhang, MD

Professor
Department of Craniomaxillofacial Surgery
Department Of Oral & Maxillofacial Surgery
Shanghai Ninth People's Hospital
Shanghai Jiaotong University
Shanghai, Peoples Republic of China

Friday, April 22, 2016

8:00 am – 6:30 pm (Breakfast, Lunch and Coffee Breaks included)

MORNING SESSION

Pre-surgical Planning: An Overview
Computer Aided Orbital Reconstruction
Computer Aided Midface Reconstruction
Question and Answer Session

Skull Base Surgery
Computer Aided Mandible Reconstruction
Computer Aided Orthognathic Surgery Planning
CAD/CAM Technology in Craniofacial Surgery
Question and Answer Session

Computer Aided Surgical Simulation for Facial Asymmetry
Intraoperative Imaging – An Overview

AFTERNOON SESSION

Computer Lab I: Pre-surgical Plan: Orbit
Computer Lab II: Pre-surgical Plan: Orthognathic
Orthognathic Dry Lab

Small Group Discussion: Orbito-zygomatic



Saturday, April 23, 2016

6:30 am – 6:00 pm (Breakfast, Lunch and Coffee Breaks included)

Practical Exercise: ZMC/Orbit

Computer Assisted Graves Decompression

Patient Specific Implants – Orbit/Zygoma/Cranial Vault

Computer Aided Surgery: How it Changed My Daily Workflow

Question and Answer Session

Stereolithography and Guides in Maxillofacial Reconstruction

Registration and Intra-operative Navigation

Intraoperative Imaging in Maxillofacial Reconstruction

Question and Answer Session

Integrating Computer Technology into a Head and Neck Practice

Computer Aided Post-op Analysis and Education

Rapid Prototype Models in Orbito-zygomatic Reconstruction

Question and Answer Session

Computer Aided Pediatric Craniofacial Surgery

Mandible in a Day – Single Stage Reconstruction

Preformed Surgical Implants – Orbit and Mandible

Question and Answer Session

Small Group Discussion: Fibula

Sunday, April 24, 2016

7:00 am – 12:00 pm (Breakfast included)

Fibular Reconstruction with Cutting Guides – Saw Bones

Fibular Reconstruction with Cutting Guides – Human Anatomic Specimen

Schedule and Program subject to modification

Presentation Information

Faculty Disclosure

It is the policy of AO North America to abide by the Accreditation Council for Continuing Medical Education Standards for Commercial Support. Standard 2: "Disclosures Relevant to Potential Commercial Bias and Relevant Financial Relationships of Those with Control over CME Content," requires all planners, including course directors, chairs, and faculty, involved in the development of CME content to disclose their relevant financial relationships prior to participating in the activity. Relevant financial relationships will be disclosed to the activity audience. The intent of the disclosure is not to prevent faculty with relevant financial or other relationship from teaching, but to provide participants with information that might be of importance to their evaluation of content. All potential conflicts of interest have been resolved prior to the commencement of this activity.

Conflict of Interest Resolution Statement

When individuals in a position to control or influence the development of the content have reported financial relationships with one or more commercial interests, AO North America utilizes a process to identify and resolve potential conflicts to ensure that the content presented is free of commercial bias.

Off-Label / Experimental Discussions

Some medical devices used for teaching purposes and/or discussed in AO North America's educational activities may have been cleared by the FDA for specific uses only or may not yet be approved for any purpose. Faculty may discuss off-label, investigational, or experimental uses of products/devices in CME certified educational activities. Faculty have been advised that all recommendations involving clinical medicine in this CME activity are based on evidence that is accepted within the profession of medicine as adequate justification for their indications and contraindications in the care of patients. All scientific research referred to, reported or used in this CME activity in support or justification of a patient care recommendation conforms to the generally accepted standards of experimental design, data collection and analysis.

Liability Statement

AO North America faculty and staff assume no personal liability for the techniques or the use of any equipment and accessories used for teaching purposes in the laboratory. The certificate provided pertains only to the participants' completion of the course and does not, in any way, attest to the proficiency of the participants' clinical experience.

AO North America gratefully acknowledges in-kind support for equipment and/or technical staff from DePuy Synthes.

Presentation Information (continued)

Disclaimer

AONA does not endorse nor promote the use of any product/device of commercial entities. Equipment used in this course is for teaching purposes only with the intent to enhance the learning experience.

Laboratory Waiver

To participate in this surgical skills course, you will be required to sign a waiver of liability prior to the course. In order to participate, AONA's policy mandates that every individual must wear appropriate protective garments provided by AONA during the lab sessions. Participants who do not sign the waiver and wear protective garments will not be allowed to participate in the laboratory sessions.

Human Anatomic Specimens

This course will involve exposure to and contact with human anatomic specimens. These specimens are being utilized for purposes of teaching and learning and are to be treated with the utmost respect. Participants should be familiar with and understand the potential risks involved and will be required to observe all customary safety procedures.



Tuition and Registration

Tuition: \$900.00 – Residents & Fellows
\$1200.00 – Attendings (US funds)

Tuition Includes: Registration, laboratory materials, breakfast, lunch and break refreshments.

Registration is available online only at www.aona.org

We encourage early registration, as seating is limited.

Upon receipt of your registration and payment, you will receive an email confirmation of your registration in the Course, along with hotel and travel information to assist you in making your arrangements.

PLEASE NOTE: Registration deadline is March 31, 2016

Full refunds will be made only if written notice of cancellation is received by the registration deadline date. Cancellations received after the deadline date will be charged a 10% cancellation fee. No tuition refund will be issued for cancellations after the start date of the course.

ADA Statement

AO North America fully intends to comply with the legal requirements of the Americans with Disabilities Act. If any registrant is in need of accommodation, please do not hesitate to submit a written request at least one month prior to this activity.

Until an email confirmation is received, please do not consider yourself registered in this Course.

For Information:

Contact AONA Customer Service Department

Phone: (800) 769-1391

(610) 695-2459

Fax: (610) 695-2420

Email: customerservice@aona.org

Hotel and Travel

Hotel Accommodations and Travel

Room reservations are the responsibility of the individual registrant. If you have not done so, please make your hotel reservations at The Hilton Tampa Downtown Hotel as soon as possible as the room block tends to fill quickly. Be sure to indicate that you are attending the "AO North America Course" when making reservations to ensure you receive the group discount of \$179.00 per night, plus tax, single/double occupancy. This rate will be available until March 31, 2016, or until the room block fills, whichever comes first. Check-in time is 3:00pm and check-out time is Noon.

To make online reservations: http://www.hilton.com/en/hi/groups/personalized/T/TPANTHF-AONA1-20160420/index.jhtml?WT.mc_id=POG

More information about Hilton Tampa Downtown:

<http://www3.hilton.com/en/hotels/florida/hilton-tampa-downtown-TPANTHF/index.html>

Hotel Information:

Hilton Tampa Downtown
211 E. Tampa Street
Tampa, FL 33602
813-204-3000

Hotel Concessions:

Complimentary guestroom Wi-Fi

Travel

Air Transportation

AAA is AO North America's preferred travel agent. Please contact AAA Travel at 800-259-4023 or www.concursolutions.com to make your travel arrangements. Refer to code (N16US3271) when making your reservations.

Ground Transportation

The Tampa International Airport (TPA) is approximately 8.9 miles from The Hilton Tampa Downtown Hotel. Blue One Transportation, the Hotel's preferred transportation service, offers non-stop transportation to and from the Tampa International Airport. To use this service please call the hotel transportation hotline when walking off of your plane prior to picking up luggage 813-333-3598. Pricing is \$13 for single passengers or \$11 per passenger for 2 or more guests.

* Please Note: Quoted prices are subject to change.

Complete information will be provided in the confirmation email.

Please visit our website: www.aona.org to register and for other course offerings.

AOCMF Membership

**Providing a common ground for excellence
in craniomaxillofacial surgery**



**As an AOCMF member, you have
certain advantages that keep you
ahead in your field:**

- Access to official AOCMF community journal: Craniomaxillofacial Trauma & Reconstruction
- Online access to 8 current scientific journals
- Online access to the archives of 23 scientific journals
- AOCMF teaching videos
- AOCMF Surgery Reference
- Online case discussions
- 10% discount on all AO publications
- Online access to AO Dialogue
- Online access to the AO New Product brochure
- 25 % discount on AOCMF's Manual "Principles of Internal Fixation of the Craniomaxillofacial Skeleton - Trauma and Orthognathic Surgery"
- Online access to CMFline's desktop version





Save The Date for the Davos Courses 2016

Don't miss the AOCMF Davos Courses 2016,
the AO Foundation's educational highlight
of the year, being held from
December 11–16, 2016 in Davos!

Join AOCMF at the Davos Courses, and participate in an extraordinary learning and networking experience. AOCMF's comprehensive, CME-certified courses are taught by the world's leading experts in craniomaxillofacial trauma and reconstruction surgery.

Showcasing the most current surgical topics and research, the courses present to you the latest state-of-the-art technology through face-to-face lectures, hands-on learning exercises, case study analysis, and small group discussions. In addition, the Davos Courses provide numerous opportunities to share your learning experiences, further develop your professional surgical network, and connect with friends and colleagues.

Become part of the unique "AO Spirit" of camaraderie and excellence by joining the AO family at the Davos Courses 2016, where you can enhance your career, hone your skills, build your network, and contribute to improved patient care worldwide.

www.aodavoscourses.org



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