



Craniomaxillofacial Surgery: Orbital Approaches and Fundamentals (with Human Anatomic Specimens)



November 3, 2017 - November 5, 2017
Tampa, FL, USA

The evaluation and treatment of orbital and mid-facial fractures, and peri-orbital soft tissue injuries continues to be a challenging problem, even for the most experienced surgeons. The key anatomical landmarks within the orbit are often difficult to visualize, and the relationships between important structures remain unclear to many surgeons. This is complicated by the presence of a fragile and highly specialized structure, the globe, and its associated adnexal structures, such as the extraocular muscles, and lacrimal system within the orbit, and eyelids externally.

In addition, there is much debate regarding which orbital injuries should be repaired, with what surgical approach, and the optimal timing for the repair, if performed. These factors all contribute to the difficulty of accurate orbital reconstruction. A secondary problem associated with treatment of orbital injuries is that the orbit is a region of the face that's shared by several specialties, but not completely treated by any one specialty. For example, many ophthalmologists, are well trained in evaluating and treating eyelid lacerations, extraocular muscle problems, and lacrimal injuries, but are uncomfortable with orbital fractures, especially multi-wall injuries, or orbital fractures associated with other mid-facial injuries. Surgeons trained in Oral and Maxillofacial Surgery, Otolaryngology, and Plastic Surgery, have varying experience with the bony reconstruction of the orbit and mid-face, and may have some experience with the soft tissue reconstruction of this region, but many do not have significant training in the internal orbital contents.

This Course is intended for instructional training in the operative treatment of orbit and midface fractures, and secondary facial reconstruction involving the orbit, according to AO principles and techniques. The Faculty are national and internationally recognized leaders in orbital reconstruction, and will discuss subjects covering craniofacial trauma and reconstructive surgery techniques. Lectures by distinguished surgeons will be combined with demonstrations, discussions and practical exercises. A "hands-on" approach to learning will be emphasized.

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 4 and above) and Fellows may also find this course beneficial.

Course Pre-requisite: Senior Resident PGY 4 or Above.

Event Summary

Tuition:

Level Name: Participant - CMF
Pricing Tier: Attending
Tuition: \$1,200.00

Level Name: Participant - CMF
Pricing Tier: Resident
Tuition: \$900.00

Course Prerequisite(s):

- Management of Facial Trauma

Venue:

Hilton Tampa Downtown / CAMLS
211 E. Tampa Street
Tampa, Florida, USA
Phone Number: 813-204-3000

Language(s):

English

Directly Provided by:



Professional Level Prerequisite(s):

- Residency Year 3
- Residency Year 4
- Residency Year 5
- Residency Year 6
- Residency Year 7
- Residency Year 8
- Attending
- Fellow

CME

Continuing Education Credit: AMA

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

AONA has been resurveyed by the Accreditation Council for Continuing Medical Education (ACCME) and awarded Accreditation with Commendation.

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 0.00 **AMA PRA Category 1 Credits™**. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

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:

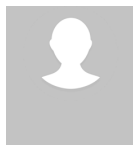
- Increase their knowledge base and surgical skill level
- Improve competence by applying advances of knowledge in patient care in the areas of trauma, degenerative disorders, deformities, tumors, and reconstructive surgical techniques
- Address practice performance gaps by improving management of aspects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

Learner Objectives

Upon completion, participants should be able to:

- Define preoperative planning methods and outcome analysis
- Identify the relevant surgical and radiologic anatomy of the orbit, and based on this knowledge, be able to diagnose/evaluate common orbital/ peri-orbital bony and soft tissue injuries
- Describe and be able to differentiate the surgical approach(s) and reconstructive procedure(s) that are most effective in correcting specific orbital and peri-orbital deformities
- Recognize the common complications associated with the treatment of these conditions and their accepted management
- Assess potential benefits of an interdisciplinary approach for optimal reconstruction and rehabilitative treatment of patients with orbital injuries
- Interpret how recent technological advances can impact on the intra-operative treatment of these injuries
- Demonstrate psychomotor skills in the practical application of traditional and endoscopic surgical approaches

Faculty

**Ellis, III, Edward - Co-Chairperson**

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

Dr. Ellis is Professor and Chair of the Department of Oral and Maxillofacial Surgery at The University of Texas Health Science Center at San Antonio, Texas. He is also the Director of the OMS Residency. Dr. Ellis' clinical interests are in maxillofacial traumatology and dentofacial deformities. He has authored over 200 scientific articles and two books. He is the past President of the American Board of Oral and Maxillofacial Surgery and has been on the editorial boards of many Oral and Maxillofacial Surgery journals for several years.

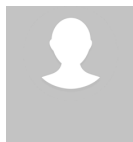
**Strong, Bradley - Co-Chairperson**

MD
Professor and Vice-chairman
Department of Otolaryngology
University of California, Davis School of Medicine
Sacramento, CA

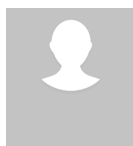
**Tollefson, Travis - Director**

MD, MPH, FACS
Professor and Director
Facial Plastic and Reconstructive Surgery
Otolaryngology-Head & Neck Surgery
University of California, Davis
Sacramento, CA

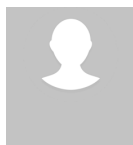
Dr Tollefson's interest in the emerging field of global surgery and improving surgical access and care in low-and-middle income countries led him to complete an MPH in Clinical Effectiveness at the Harvard School of Public Health. As Professor at UC Davis, his research is currently focused on clinical outcomes of cleft lip and palate, facial trauma education in Africa, and development of patient-report outcomes in cleft patients. He coedited, Complete Cleft Care, an evidence-based textbook on team management of cleft lip-palate. He serves as a Faculty Educator for the AOCMF (craniomaxillofacial) and is an international CMF representative for the AO Alliance, He serves on the board of the American Academy of Facial Plastic Surgery, and is on the editorial board for JAMA Facial Plastic Surgery Journal.

**Antonyshyn, Oleh - Lecturer**

MD, FRCSC
Head, Adult Craniofacial Program
Professor, Division of Plastic Surgery
University of Toronto
Toronto, ON

**Aquilina, Peter - Lecturer**

PhD, MBBS(Hons) , BDS (Hons), MS(Head and Neck), FRACDS(OMS)
Department of Plastic & Reconstructive Surgery
Nepean Hospital Clinical School
The University of Sydney
Sydney, AUS

**Bitonti, David - Lecturer**

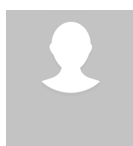
DMD
Clinical Associate Professor in Surgery
Department of Surgery
F. Edward Hébert School of Medicine
Uniformed Service University of the Health Sciences
Faculty, Oral and Maxillofacial Surgery Residency
Walter Reed National Military Medical Center
Bethesda, MD

**Doerr, Timothy - Lecturer**

MD, FACS
Professor
Director of Facial Plastic Surgery
Department of Otolaryngology-Head & Neck Surgery
University of Rochester Medical Center
Rochester, NY

**Engelstad, Mark - Lecturer**

DDS, MD, MS
Associate Professor
Department of Oral & Maxillofacial Surgery
Department of Medical Informatics
Oregon Health & Science University
Portland, OR

**Fleming, James - Lecturer**

MD
Philip Lewis Professor of Ophthalmology
Director, Department of Ophthalmology
Hamilton Eye Institute
University of Tennessee Health Science Center
Memphis, TN

**Lettieri, Salvatore - Lecturer**

MD
Chief of Plastic Surgery
Maricopa Medical Center
Division of Plastic and Reconstructive Surgery
Mayo Clinic
Phoenix, AZ

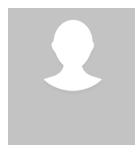
**Mahoney, Nicholas - Lecturer**

MD
Assistant Professor Of Ophthalmology
Division Of Oculoplastic Surgery
Wilmer Eye Institute
Baltimore, MD

**Matic, Damir - Lecturer**

MD, MSc, FRCS
Associate Professor
Division of Plastic and Reconstructive Surgery
and Department of Pediatrics
London Health Sciences Center
London, ON

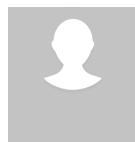
Dr. Matic finished both his medical school and residency training in Plastic Surgery at the University of Toronto. He completed a fellowship in Craniofacial surgery at Johns Hopkins Hospital and at the University of Maryland. After working at St. Michael's Hospital in Toronto for a year he moved to London, Ontario in 2002. He is currently an Associate Professor at Western University, working at Victoria Hospital which is a tertiary care pediatric and trauma hospital. His primary clinical interests include cleft lip and palate, acute and secondary facial trauma reconstruction, facial nerve re-animation as well as all aspects of paediatric craniofacial surgery. He completed a Master's of Science degree in London at Western University in the Department of Medical Biophysics. His current research interests include facial growth, the effects of botulinum toxin on nerve regeneration, and long term analysis of cleft lip repair and orbicularis oris muscle motion.

**Merbs, Shannath - Lecturer**

MD, PhD, FACS
Professor
Departments of Ophthalmology and Oncology
Johns Hopkins University School of Medicine
Baltimore, MD

**Powers, David - Lecturer**

DMD, MD, FACS, FRCS(Ed)
Associate Professor of Surgery
Director, Duke Craniomaxillofacial Trauma Program
Division of Plastic, Reconstructive, Maxillofacial and Oral Surgery
Duke University Medical Center
Durham, NC

**Sawhney, Raja - Lecturer**

MD, MFA, FACS
Assistant Professor
Facial Plastics and Reconstructive Surgery
Otolaryngology / Head and Neck Surgery
University of Florida
Gainesville, FL

**Schramm, Alexander - Lecturer**

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, DEU

Agenda

Day1

Friday, November 03, 2017 - 07:00 - 18:30 - (includes breaks, travel-time and meals)

Schedule	Title	Moderator	Faculty	Room
07:00 - 08:00	Participant Registration			
08:00 - 08:10	Course Overview		Grant, M	
08:10 - 08:20	AONA Overview		Tollefson, T	
08:20 - 08:50	Surgical Anatomy and Radiology of the Orbit			
08:50 - 09:20	Overview of Surgical Approaches to the Orbital		Grant, M	
09:20 - 09:40	Materials for Internal Orbital Reconstruction: Does it Matter?			
09:40 - 09:50	Coffee Break			
09:50 - 10:50	Planning, Intraoperative Imaging, Intraoperative Navigation: Principles and Applications		Grant, M Schramm, A Strong, B	
10:50 - 12:00	Live Demonstration Primary Orbital Reconstruction: Planning, Navigation, Imaging		Schramm, A	
12:00 - 13:00	Lunch			
13:00 - 14:30	PRACTICAL EXERCISE I: Incisions, Lacrimal			
14:30 - 14:45	Coffee Break/ Travel to Lecture Hall			
14:45 - 15:05	Pediatric Orbital Injuries			
15:05 - 15:25	Evaluation and Management of Peri-Orbital Soft Tissue Defects (Eyelids/Lacrimal)			
15:25 - 15:45	Ophthalmic Considerations in Orbital Trauma		Grant, M	
15:45 - 15:50	Travel to Small Group Discussions			
15:50 - 17:05	Small Group Discussion 1: Basic Concepts in Orbit/Mid-face Fracture Repair (including Pre-operative Evaluation, Surgical Approaches, etc.)			

Day2

Saturday, November 04, 2017 - 07:00 - 18:30 - (includes breaks, travel-time and meals)

Schedule	Title	Moderator	Faculty	Room
07:00 - 07:30	Breakfast at CAMLS			
07:30 - 07:50	Management of Isolated Orbital Fractures			
07:50 - 08:10	Combined ZMC & Orbit Injuries		Ellis, E	
08:10 - 08:30	Evaluation and Treatment of Frontal Sinus Injuries		Tollefson, T	
08:30 - 08:50	Diagnosis and Treatment of NOE Injuries		Strong, B	
08:50 - 09:00	Coffee Break / Travel to Lab			
09:00 - 11:15	PRACTICAL EXERCISE II: Basic Mid-face Fracture Management, Bone Graft	Ellis, E Grant, M		
11:15 - 11:25	Travel to Small Group Discussions			
11:25 - 12:40	Small Group Discussion 2: Basic Concepts in Orbit/Mid-Face Fracture Repair			
12:40 - 13:40	Lunch			
13:40 - 15:40	PRACTICAL EXERCISE III: NOE, Frontal Sinus	Tollefson, T		
15:40 - 15:45	Travel to Small Group Discussions			
15:45 - 15:55	AO CMF Membership		Tollefson, T	
15:55 - 16:15	Complications of Orbital Surgery: Prevention and Management			
16:15 - 16:35	Problems in Secondary Orbital Reconstruction			
16:35 - 16:40	Travel to Small Group Discussions			
16:40 - 17:50	Small Group Discussion 3: Advanced Concepts in Mid-face Fracture Repair: Complications			
17:50 - 17:50	Adjourn for Day			

Day3

Sunday, November 05, 2017 - 07:15 - 12:05 - (includes breaks, travel-time and meals)

Schedule	Title	Moderator	Faculty	Room
07:15 - 08:00	Breakfast at CAMLS			
08:00 - 08:20	Update on Traumatic Optic Neuropathy for the CMF Surgeon		Strong, B	
08:20 - 08:40	Correction of Post-Traumatic Eyelid Deformities - Ectropian/ Entropion		Grant, M	
08:40 - 09:00	Quality Control in Orbital Reconstruction: Is it Needed?			
09:00 - 09:20	Management of Secondary Soft Tissue Defects -Does it Relate to Orbit?			
09:20 - 09:30	Coffee Break/ Travel to Small Group Discussions			
09:30 - 10:45	Small Group Discussion 4: Advanced Orbital Reconstruction			
10:45 - 10:50	Travel to Lecture Hall			
10:50 - 12:05	All Participant Discussion: Faculty Presentations: "What Can Go Wrong, Will Go Wrong" or "A Case That Taught Me..."			
12:05 - 12:05	Adjourn			

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 a faculty with a 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.

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.

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.

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.

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.

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.

Acknowledgment

In-Kind Support

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

Educational Grant

AO North America gratefully acknowledges funding for its education activities from the AO Foundation. The AO Foundation receives funding for education from Synthes GmbH.