



AO CMF NA Course—Management of Facial Trauma



November 6, 2021 - November 7, 2021

Orlando, Florida, USA

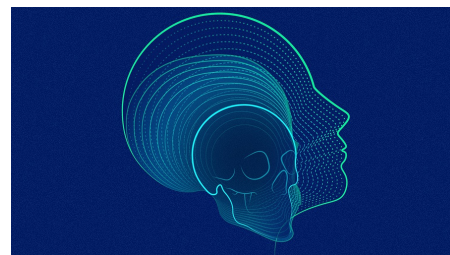
This course provides learners with the fundamental knowledge and principles for the treatment of craniomaxillofacial fractures and their complications. It covers diagnostic and treatment principles for midface and mandibular fractures, as well as the prevention and treatment of complications.

1. Online Preparations—4 weeks prior to the face-to-face event

During these 4 weeks, it is **recommended** for participants complete a self-assessment and conduct online self-study, including recommended reading material, viewing videos and completion of surgical simulation modules. Participants will receive a link to the learning materials from their event organizer.

2. Face-to-face event—2 days

The face-to-face event is delivered through a combination of short lectures, small group discussions, and practical exercises. This combination enables participants to hear, discuss, and apply the concepts of facial trauma management.



Target Audience

This course is designed for surgeons in training in the fields of Oral and Maxillofacial Surgery, Otolaryngology, Plastics and Reconstruction, Ophthalmology and Oculoplastics. Some practicing surgeons may also find this course beneficial.

Event Summary

Tuition:

Level Name: Participant - CMF

Pricing Tier: Attending

Tuition: \$215.00

Level Name: Participant - CMF

Pricing Tier: Resident

Tuition: \$215.00

Course Prerequisite(s):

No Prerequisites

Venue:

Caribe Royale Orlando

8101 World Center Drive

Orlando, Florida, USA

Phone Number: 407-238-8000

Language(s):

English

Directly Provided by:



Professional Level Prerequisite(s):

No Prerequisites

CME

Continuing Education Credit: 13.25

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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.

Below Wording CMF Only- 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 13.25 **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:

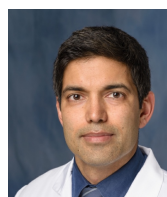
- Increase their knowledge base and surgical skill level
- Improve competence by applying advances of knowledge in patient care in the areas of trauma, degenerative disorders, deformities, tumors, and reconstructive surgical techniques
- Address practice performance gaps by improving management of aspects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

Learning Objectives

Upon completion, participants should be able to:

- Diagnose facial injury through history, physical examination, and diagnostic investigations
- Formulate a treatment plan (operative and non-operative)
- Perform the specific treatment for facial trauma
- Modify the treatment plan when necessary
- Manage patient follow-up and rehabilitation
- Identify and manage complications

Faculty



Sawhney, Raja - Chairperson

MD, MFA, FACS
Facial Plastics and Reconstructive Surgery
Otolaryngology / Head and Neck Surgery
Center for Aesthetic Plastic Surgery
Brooksville, Florida

Dr. Sawhney is a fellowship trained Facial Plastic and Reconstructive Surgeon. Prior to becoming a physician, Dr. Sawhney obtained his Bachelor's degree in Fine Arts in Scientific Illustration and Painting and Drawing and then pursued his Masters of Fine Arts in Medical and Biological Illustration both from the University of Michigan. After working as a medical artist, he returned to school to get his medical degree (MD) at Wayne State University in Detroit Michigan. He then completed his residency training in Otolaryngology (ENT) at the Henry Ford Health System in Detroit Michigan. He obtained specialized training in Facial Plastic Surgery, in Dallas / Fort Worth under the guidance of Dr. Yadro Ducic MD FRCS(C), FACS. After completing his training, Dr. Sawhney worked at the University of Florida, Department of Otolaryngology where he was an Associate Professor and Director of Facial Plastics and Reconstructive Surgery. He is presently in private practice though participates as adjunct faculty at University of Florida.



Salman, Salam - Co-Chairperson

DDS, MD, FACS
Residency Program Director
Associate Professor
Department of Oral & Maxillofacial Surgery
University of Florida Health - Jacksonville
Jacksonville, Florida

Dr. Salman is an associate professor and residency program director in the Department of Oral and Maxillofacial Surgery at University of Florida Health - Jacksonville, FL. After attending dental school at the University of Michigan, he completed medical school as well as his residency in Oral and Maxillofacial Surgery at the University of Kentucky Chandler Medical Center in Lexington, KY. Upon finishing his residency, he began his position as a full-time faculty member at UF-Jacksonville Department of Oral and Maxillofacial Surgery. Dr. Salman's practice currently includes management of facial trauma, orthognathic surgery, surgical treatment of obstructive sleep apnea, TMJ surgery and maxillofacial implant reconstruction.



Cunningham, Larry - Director

DDS, MD, FACS, FICD
Professor and Chief
Department of Oral and Maxillofacial Surgery
Associate Dean of Hospital Affairs
University of Pittsburgh School of Dental Medicine
Pittsburgh, Pennsylvania

Dr. Cunningham is Professor and Chair of the Department of Oral and Maxillofacial Surgery at the University of Pittsburgh School of Dental Medicine. He currently serves on the ABOMS Board of Directors and as an AOCMF Educational Board member. His clinical interests include orthognathic surgery, facial trauma and reconstruction, and temporomandibular joint surgery. Dr. Cunningham is a Fellow of the American Association of Oral and Maxillofacial Surgeons and is a Diplomat of the American Board of Oral and Maxillofacial Surgery.



Aziz, Shahid - Lecturer

DMD, MD, FACS, FRCS(Ed)
Professor
Department of Oral & Maxillofacial Surgery
Rutgers University School of Dental Medicine
Division of Plastic Surgery
Department of Surgery
Rutgers - New Jersey Medical School

Newark, New Jersey

Shahid Aziz is the co-founder and President of Smile Bangladesh. A 1st generation Bengali-American, Shahid has been leading a small team of surgeons, anesthesiologists, and nurses to Bangladesh since 2006. To date, his teams have treated about 1600 children and adults with cleft lip and palate deformities. Shahid is a Professor of Oral and Maxillofacial Surgery and Associate Professor of Plastic and Reconstructive Surgery at Rutgers University, is a Diplomat of the American Board of Oral and Maxillofacial Surgery, a Fellow of the American College of Surgeons, and Fellow of the Royal College of Surgeons, Edinburgh. Shahid is also an Attending Surgeon at University Hospital (Newark, NJ), St. Joseph's Regional Medical Center, Paterson, NJ, Robert Wood Johnson University Hospital, New Brunswick NJ, St Peters University Hospital, New Brunswick NJ, Morristown Memorial Hospital, Morristown NJ, and Hackensack University Medical Center, Hackensack, NJ. He is a graduate of the Lawrenceville School and Rutgers College. Shahid received his dental degree from Harvard University School of Dental Medicine and his medical degree from Columbia University College of Physicians and Surgeons. He completed his general surgery and oral/maxillofacial surgery training at New York-Presbyterian Hospital-Columbia University Medical Center. He has authored or co-authored over 50 peer reviewed journal articles and 10 book chapters. Shahid's clinical area of expertise includes facial trauma, reconstruction, and orthognathic surgery. He currently serves as President of the New Jersey Society of Oral and Maxillofacial Surgeons, Chairman of the Section of Dentistry and Oral Health of the New York Academy of Medicine, and President of Smile Bangladesh.

**Deeb, Robert - Lecturer**

MD
 Director-Division of Facial Plastic and Reconstructive Surgery
 Department of Otolaryngology-Head and Neck Surgery
 Henry Ford Health System
 Clinical Associate Professor
 Wayne State University-School of Medicine
 Detroit, Michigan

Dr. Deeb is the Director of the Division of Facial Plastic and Reconstructive Surgery at Henry Ford Health System in Detroit, Michigan. He received his medical degree from Wayne State University-School of Medicine. He completed residency in Otolaryngology-Head and Neck surgery at Henry Ford Health System and performed additional fellowship training at the Mount Sinai Medical Center (NYC) in Facial Plastic and Reconstructive Surgery. He is double board certified by both the American Board of Otolaryngology-Head and Neck Surgery as well as the American Board of Facial Plastic and Reconstructive Surgery. He is a clinical associate professor at Wayne State University-School of Medicine. His clinical interests include: cosmetic and functional rhinoplasty, reconstructive surgery of the head and neck, maxillofacial trauma and facial rejuvenation. He has authored numerous publications in peer-reviewed journals as well as several book chapters. He is active in humanitarian mission work, traveling abroad regularly to perform reconstructive procedures on underserved and refugee populations.

**Gandhi, Parag - Lecturer**

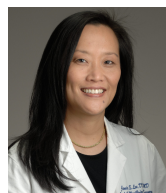
MD, FACS
 Oculofacial & Orbital Surgery
 Maryland Eye & Face
 Greater Baltimore Medical Center
 Univ of MD Upper Chesapeake Health
 Baltimore, Maryland

Since completing ASOPRS (Oculoplastic Surgery) Fellowship in 2006, joined Duke Ophthalmology full time practice in Oculofacial plastic surgery at the busiest satellite of Duke Eye Center, with clinical practice in Winston Salem NC, and full time academic appointment at Duke University School of Medicine until August 2017. Clinical practice mix of functional and aesthetic surgical and non-invasive procedures, treating adults and children, and multi-disciplinary collaborative surgeries with ENT, Neurosurgery, Mohs Surgery, OMFS, and others. Clinical research projects with residents and fellows of Duke Eye Center, mentoring fellows for year end projects, submission/acceptance of 20+ abstracts for posters and lectures at national and international meetings over 11 years. Novant Health Winston Salem NC Section Chief of Ophthalmology 2016 to 2017. Invited lectureships with state and national societies of various specialties, multiple national and international courses with AO Foundation, course director and teaching at 10+ AAO (Ophthalmology) Annual Meetings, invited lectureships in Asia through various societies. International surgical missions 2015-2019 to Mongolia through Virtue Foundation NY; SEE International surgical mission to Ecuador 2019. Associate Faculty of ASOPRS Fellowship at Sinai Hospital of Baltimore 2018 to present. Co-Chair of Global Health Committee of ASOPRS national society 2019 to present. Group private practice in Ophthalmology/Oculoplastics 2018 to 2019. In 2020, started solo practice Maryland Eye & Face - specializing in adult and pediatric Oculofacial, orbital & reconstructive surgery. Remain active in teaching, clinical research, and national and state societies. Recipient of the 2019 American Academy of Ophthalmology Achievement Award.

**Henriquez, Oswaldo - Lecturer**

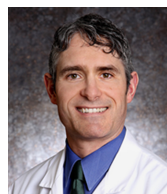
MD, FACS
 Associate Professor
 Emory University Department of Otolaryngology-Head and Neck Surgery
 Associate Chief Division Otolaryngology at Grady Memorial Hospital
 Director of Medical Student Education
 Co-Director Grady Skull Base Center
 Atlanta, Georgia

Dr. Oswaldo A. Henriquez was born in Caracas, Venezuela where he received his Medical School Diploma from the Luis Razetti Medical School at the Universidad Central de Venezuela in 2004. He completed his residency training in Atlanta, Georgia at Emory University in the Department of Otolaryngology-Head & Neck Surgery. He continued his training by taking part in a one year fellowship in Rhinology-Endoscopic Skull Base Surgery at the Medical University of South Carolina in Charleston, SC. Since 2013, Dr. Henriquez serves as an Associate Professor within the Emory School of Medicine Department of Otolaryngology-Head and Neck Surgery with his clinical practices at Grady Memorial Hospital. He serves as the Director of Medical Education for the Otolaryngology Department, Co-Director of the Grady Skull Base Surgery Center and Associate Chief for the Division of Otolaryngology-Head and Neck Surgery at Grady Memorial Hospital. His clinical interests include sinonasal diseases, endonasal endoscopic approaches to the anterior skull base, craniomaxillofacial trauma and endocrine surgery. His research interests include Health Care Disparities, craniomaxillofacial trauma and skull base surgery.

**Lee, Janice - Lecturer**

DDS, MD, FACS
 Clinical Director
 Oral & Maxillofacial Surgeon
 National Institute of Dental and Craniofacial Research (NIDCR)
 National Institutes of Health Clinical Center
 Bethesda, Maryland

Janice Lee is the Clinical Director of the National Institute of Dental and Craniofacial Research (NIDCR) of the National Institutes of Health (NIH), and Chief of the Craniofacial Anomalies and Regeneration Section (NIDCR). Dr. Lee received her graduate education at the University of California, Los Angeles (DDS and MS) and Harvard Medical School (MD, 1997). Her residency training in oral & maxillofacial surgery was completed at the Massachusetts General Hospital and she completed a clinical research fellowship in craniofacial and skeletal biology at the NIDCR. She was a Professor of Oral & Maxillofacial Surgery and the Vice Chair of the Department of Oral & Maxillofacial Surgery at University of California, San Francisco (UCSF) prior to becoming the Clinical Director at the NIDCR. Her research program focuses on craniofacial abnormalities of skeletal growth. Through cross-sectional and longitudinal analysis, as well as family clusters, of craniofacial conditions and healthy volunteers, Lee's research team is developing a phenomic and genomic database that includes deep clinical phenotyping, 3D cone-beam computed tomography, 3D surface imaging, coupled with exome sequencing. The goal is to further understand development and etiology of craniofacial and dentofacial disorders. In her current role, Lee oversees the NIDCR Clinical and Translational Research Program, directs the clinical research and regulatory support for all NIDCR clinical investigators, and co-directs the Clinical Research Fellowship program.

**Meara, Daniel - Lecturer**

MS, MD, DMD, FACS

Chair, Department of Oral and Maxillofacial Surgery & Hospital Dentistry

Christiana Care Health System

Wilmington, Delaware

Daniel J. Meara, MS, MD, DMD, MHCDS, FACS is Chair of the Department of Oral and Maxillofacial Surgery & Hospital Dentistry at Christiana Care Health System in Delaware. In addition, he is director of research, scholarly activity and simulation for the oral and maxillofacial surgery residency program. Prior to joining Christiana Care, he completed a craniomaxillofacial surgery fellowship at West Virginia University/Charleston Area Medical Center. Prior to that, he completed oral and maxillofacial surgery residency at the University of Alabama, Birmingham. Dr. Meara earned a bachelor's degree in economics at the University of Notre Dame. In addition, he has a master's degree in toxicology from Michigan State University, a medical degree from Wayne State University in Detroit, Michigan, a dental degree from the University of Alabama and he recently graduated from Dartmouth College with a master's degree in healthcare delivery science. Also, Dr. Meara spent research time at the National Institutes of Health. Dr. Meara is board certified and a diplomate of the American Board of Oral and Maxillofacial Surgery (ABOMS). He is also a fellow of the American Association of Oral and Maxillofacial Surgeons (AAOMS), the American College of Oral and Maxillofacial Surgeons (ACOMS), the American Academy of Craniomaxillofacial Surgeons (AACMFS), the American College of Surgeons (ACS), and the International College of Dentists (ICD). Dr. Meara is a prior recipient of the AAOMS Faculty Educator Development Award and currently serves on the AAOMS Committee on Continuing Education and Professional Development. Dr. Meara is the immediate past president of the Delaware Academy of Medicine and is an executive committee member for the Middle Atlantic Society of Oral and Maxillofacial Surgeons.

**Mount, Delora - Lecturer**

MD, FACS, FAAP

Professor of Surgery (Plastics) & Pediatrics

Chief of Pediatric Plastic Surgery

American Family Children's Hospital

Division of Plastic & Reconstructive Surgery

University of Wisconsin School of Medicine and Public Health

Madison, Wisconsin

Dr. Delora Mount is dual board certified by the American Board of Plastic Surgery and the American Board of Surgery. Dr. Mount specializes in craniofacial surgery, orthognathic (jaw) surgery, maxillofacial trauma and benign maxillofacial tumor surgical treatments. Her clinical subspecialties include treatment of infants and children, particularly those with major facial birth defects which include, cleft lip/palate repair, correction of skull shape abnormalities, and speech disorders (hypernasal speech). She has served as Chief of Pediatric Plastic Surgery at the University of Wisconsin for 20 years and has lead the covid pandemic maxillofacial trauma initiatives there. She lists her favorite things as watching her son play baseball (he's really good) and hanging with her golden retrievers. She also loves teaching and mentoring the next generation of plastic surgeons, as well as collaborating with colleagues within the field by teaching courses with the AO and serving on the AO North America CMF Board.

**Nam, Arthur - Lecturer**

MD, MS, FACS

Associate Professor

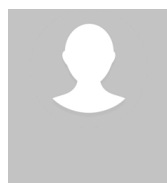
Division of Plastic, Reconstructive and Maxillofacial Surgery

R Adams Cowley Shock Trauma Center

University of Maryland

Baltimore, Maryland

Dr. Nam completed his medical degree at Thomas Jefferson University, Jefferson Medical College, an internship and residency at George Washington University Medical Center, and a research fellowship in Plastic and Reconstructive Surgery at the R Adams Cowley Shock Trauma Center. He also completed a combined fellowship at The Johns Hopkins Hospital and University of Maryland Medical Center. He is double board certified in general surgery and plastic and reconstructive surgery. His areas of research are in complex adult craniofacial trauma, reconstruction of secondary craniofacial deformities, hand surgery and clinical outcomes following reconstruction. His expertise includes using microsurgical techniques to reconstruct soft tissue defects of head and neck, chest, abdominal wall, and lower extremities following traumatic injury or oncologic surgery. He is active in vascularized composite tissue allotransplantation (VCA) research and a close collaborator with the Division of Transplant Surgery. He is the recipient of the Young Investigator Award at the 9th American Transplant Congress in 2009, and has published numerous peer-reviewed articles in basic and clinical sciences related to plastic surgery and transplant surgery.

**Patel, Krishna - Lecturer**

MD, PhD

Professor

Director of Facial Plastic and Reconstructive Surgery

Medical University of South Carolina

Charleston, South Carolina

Krishna G. Patel, M.D., Ph.D. joined the Medical University of South Carolina department of Otolaryngology-Head and Neck Surgery in 2008, and was named the Director of Facial Plastic and Reconstructive Surgery in 2010. She attended Columbia University in New York City for her undergraduate education. She then earned M.D. and Ph.D. degrees through the combined program at the Medical College of Georgia, where she was awarded the "Excellence in Research" award. Dr. Patel completed a residency in Otolaryngology-Head and Neck Surgery at the University of North Carolina in Chapel Hill. Following residency, she pursued fellowship training in Facial Plastic and Reconstructive Surgery at the University of California, Davis. Dr. Patel is double board certified by the American Board of Otolaryngology and by the American Board of Facial Plastic and Reconstructive Surgery.

Agenda

Day 1

Saturday, November 06, 2021 - 08:00 - 17:05 - (includes breaks, travel-time and meals)

Schedule	Title	Moderator	Faculty	Room
08:00 - 08:10	COURSE OPENING			
08:00 - 08:10	Welcome and Introduction		Cunningham, L	
08:10 - 11:50	MID & UPPER FACIAL TRAUMA	Salman, S		
08:10 - 08:20	Surgical Approaches to the Midface		Salman, S	
08:20 - 08:30	Reestablishing Pre-traumatic Occlusion		Aziz, S	
08:30 - 08:40	Maxillary Fractures		Mount, D	
08:40 - 08:50	Zygomatic Fractures		Henriquez, O	
08:50 - 09:00	Orbital Wall Fractures		Gandhi, P	
09:00 - 09:15	Coffee Break / Travel to Small Group Discussions			
09:15 - 11:15	SESSION A: SMALL GROUP DISCUSSION (Cases: Zygomatic, Orbit, Zygoma and Orbit, Le Fort Fractures); Summary, Q & A			
11:15 - 11:20	Travel to Lecture Hall			
11:20 - 11:30	Nasoorbitoethmoidal (NOE) Fractures		Deeb, R	
11:30 - 11:40	Frontal Sinus Fractures		Deeb, R	
11:40 - 11:50	Panfacial Fractures - Sequencing of Repair		Meara, D	
11:50 - 12:50	Lunch			
12:50 - 17:05	MID & UPPER FACIAL TRAUMA (continued)	Henriquez, O		
12:50 - 14:20	PRACTICAL EXERCISE 1: Complex Midface Fractures	Henriquez, O		
14:20 - 14:25	Travel to Lecture Hall			
14:25 - 14:35	Pediatric Facial Injuries		Patel, K	
14:35 - 14:55	Keynote Lecture - Computer Planning for Ballistic Injuries		Sawhney, R	
14:55 - 15:05	AOCMF - What is in it for you? (Membership Benefits, Offerings)		Cunningham, L	
15:05 - 15:20	Coffee Break/ Travel to Small Group Discussions			
15:20 - 17:05	SESSION B: SMALL GROUP DISCUSSION (Cases: NOE, Nasal, Frontal Sinus); Summary, Q & A			
17:05 - 17:05	Faculty Debrief			
17:05 - 18:00	Reception			

Day 2

Sunday, November 07, 2021 - 07:30 - 14:00 - (includes breaks, travel-time and meals)

Schedule	Title	Moderator	Faculty	Room
07:30 - 14:00	MANDIBULAR TRAUMA	Salman, S		
07:30 - 07:40	Surgical Approaches to the Mandible		Lee, J	
07:40 - 07:50	Mandibular Fractures: Load Sharing and Load Bearing		Nam, A	
07:50 - 08:00	Condylar Fractures		Aziz, S	
08:00 - 08:05	Travel to Lab			
08:05 - 09:35	PRACTICAL EXERCISE 2: Load Sharing Mandibular Fractures	Sawhney, R		
09:35 - 09:50	Coffee Break / Travel to Small Groups			

09:50 - 11:10	SESSION C: SMALL GROUP DISCUSSION (Cases: Load Sharing, Tooth in the Line of Fracture, Sequencing, Condyle)	
11:10 - 11:15	Travel to Lab	
11:15 - 12:15	PRACTICAL EXERCISE 3: Fractures of the Complicated Mandible	Sawhney, R
12:15 - 12:25	Pick-up Boxed Lunches / Travel to Small Group Discussions	
12:25 - 14:00	SESSION D: SMALL GROUP DISCUSSION (Cases: Load Bearing): Summary, Q & A	

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Faculty Disclosure:

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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.

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Acknowledgment

In-Kind Support

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

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