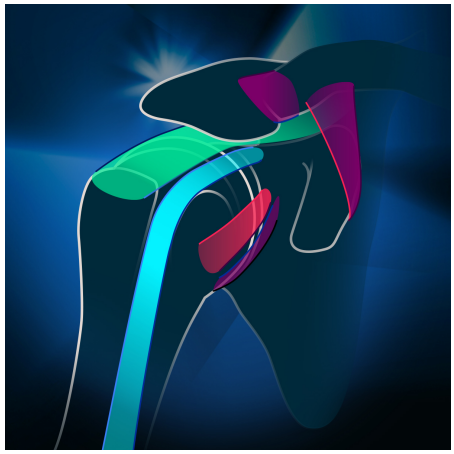
AO North America

AO Sports NA Masters Course—Management of Complex Shoulder Pathology

May 12, 2023 - May 13, 2023
Boston/Raynham, Massachusetts, USA



Course Info:
This course will be held at the Raynham Learning Center Lab where we will have upper torso anatomical specimen practical exercises. We will provide a bus shuttle from the hotel (for overnight stays) in Boston (Hyatt Regency Boston Harbor, 101 Harborside Drive, Boston, MA, 02128) and the Raynham Learning Center Lab (325 Paramount Drive, Raynham, MA, 02767).

Course Description:
This course addresses current evidence and techniques for the management of challenging sports and soft-tissue pathologies causing shoulder stiffness, pain, weakness, and instability. Small group discussions are moderated by expert faculty and selected arthroscopic and open procedures are performed in the anatomy lab.

Target Participants:
Experienced Orthopedic Surgeons and Orthopedic Sports Medicine Fellows who are technically proficient with arthroscopic and open shoulder surgery and whose practice involves treating complex rotator cuff tears and/or shoulder instability with bony defects.

Goal of the Course:
The goal of this educational event is to further develop the experienced surgeon's understanding of soft-tissue injuries around the shoulder and enhance the surgical skills needed to treat this patient population. This course helps participants identify the optimal treatment decisions to improve postoperative function and patient satisfaction, enhance their technical skills, and better manage complex and rare cases.

Event Summary

Tuition:
Level Name: Participant-Sports
Pricing Tier: Resident
Tuition: $910.00

Level Name: Participant-Sports
Pricing Tier: Fellow
Tuition: $910.00

Level Name: Participant-Sports
Pricing Tier: Attending
Tuition: $1,700.00

Course Prerequisite(s):
No Prerequisites

Venue:
Hyatt Regency Boston Harbor
101 Harborside Drive
Boston, Massachusetts, USA
Phone Number: 617.568.1234
https://www.hyatt.com/en-US/hotel/massachusetts/hyatt-regency-boston-harbor/bosha

J&J Institute Training Facility (course site)
325 Paramount Drive
Raynham, Massachusetts, USA
Phone Number: 508.880.8383

Language(s):
English

Directly Provided by:
AO North America

Professional Level Prerequisite(s):

- Fellow
- Practicing

CME

Continuing Education Credit: 12.50

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

Designation Statement - AO North America designates this live educational activity for a maximum of 12.50 ***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:

- Identify shoulder anatomy and pathology related to sports and soft-tissue injuries
- Obtain an injury specific history and perform a detailed physical exam of the shoulder
- Interpret appropriate radiographic images
- Create an accurate diagnosis
- Describe the treatment options and select an appropriate plan
- Perform arthroscopic and/or open procedures based on best scientific guidelines
- Develop an appropriate postoperative rehabilitation plan
- Identify and manage potential intra- and postoperative complications
- Review common, difficult, failed, and revision cases and explain how to manage poor outcomes

Faculty

Elhassan, Bassem - Co-Chairperson

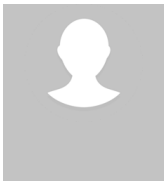
MD
Shoulder & Elbow Surgery
Co-Chief, Shoulder Service
Program Director, Shoulder Service Fellowship
Professor of Orthopedic Surgery, Harvard Medical School
Boston, Massachusetts

Dr. Elhassan joined Massachusetts General Hospital in October 2020. Before coming here, he was on the faculty at the Mayo Clinic and was a Professor of Orthopaedic Surgery at Mayo Clinic College of Medicine. Dr. Elhassan received his medical degree at the American University of Beirut. He completed three years of training in general surgery focusing on cardiothoracic surgery and one year in orthopaedic surgery at the American University of Beirut. Dr. Elhassan went on to complete his residency in orthopaedic surgery at the University of Illinois in Chicago. While there, he received the Senior Alpha Omega Alpha Honor Medical Society, as well as the Robert Ray Award for Research. Dr. Elhassan completed a fellowship in hand and upper extremity at the Mayo Clinic and an additional fellowship in shoulder and elbow surgery at Mass General. Dr. Elhassan started working at the Mayo Clinic in 2007. He won the Mayo Clinic Teacher of the Year Award for two consecutive years in 2009 and 2010, and his upper extremity service was voted as one of the best rotations for the Mayo Clinic's residents and fellows. Dr. Elhassan has been innovative in the field of upper extremity surgery and he has developed numerous novel procedures (20 new surgical procedures for the shoulder, elbow and wrist) through dedicated anatomic and biomechanical studies. The care and outcome of patients, specifically those with complex shoulder and elbow problems, improved significantly because of these innovations. He is considered the world expert in the evaluation and management of scapulothoracic disorders, and tendon transfers around the shoulder and elbow. Dr. Elhassan has published over 125 peer-reviewed articles and authored thirty book chapters. He has presented at countless meetings both nationally, as well as internationally, and he has won numerous awards for best abstract, paper, poster, video and podium presentation in national and international hand and shoulder and elbow societies. He is also the recipient of the 2015 ASES Traveling Fellowship Exchange Program.

Ponce, Brent - Co-Chairperson

MD
Chair AO Sports
Chair of Research Hughston Foundation
COERG Founder
Hughston Clinic
Columbus, Georgia

Dr. Brent Ponce received his medical degree from Vanderbilt University and completed his orthopaedic residency at the Combined Harvard Orthopaedic Residency Program. He then received fellowship training from Drs. JP Warner and Peter Millett with the Harvard Shoulder Service. After serving in the United States Air Force at the Air Force Academy with a tour in Iraq, he joined the University of Alabama at Birmingham faculty in 2006 where and became professor and vice chair of the department. He has published over 175 papers and has served on several orthopaedic leadership committees in the AAOS, ASES and AOA. In early 2021 he joined the Hughston Clinic as the Chair of Research of the Hughston Foundation in Columbus Georgia.



Entezari, Vahid - Lecturer

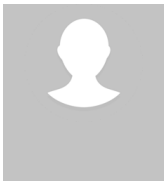
MD, MMSc, FAAOS
Thomas jefferson
Beachwood, Ohio

After receiving his medical degree abroad, Dr. Entezari joined Harvard Medical School's orthopedic biomechanics laboratory in Boston for a post-doctoral research fellowship in orthopedic biomechanics. During the same period, he completed a post-graduate Master's Degree in Translational Research from Harvard Medical School. He then completed his internship and orthopaedic surgery residency at Cleveland Clinic and shoulder and elbow fellowship at Rothman Institute of Thomas Jefferson University. He is currently the division head of orthopaedic surgery at Marymount hospital and associated director of the shoulder and elbow fellowship at Cleveland Clinic. He has a complex shoulder practice taking care of patients with advanced shoulder arthritis, rotator cuff tear, instability, and sport-related injuries. In addition, Dr. Entezari is an active academician with programmatic research on the outcome of rotator cuff repair, shoulder arthroplasty, and infection and participated in two NIH funded and three ASES-sponsored multicenter studies. He has authored numerous publications, and several book chapters and regularly presents his research at regional and national conferences.

Ferry, Amon - Lecturer

MD
Arizona Sports Medicine Center
Scottsdale, Arizona

Fellowship: Harvard Sports Medicine Service, Massachusetts General Hospital, Boston, MA Residency: Orthopedic Surgery, Rush University Medical Center, Chicago, IL Medical School: Rush University, Chicago, IL Dr. Amon T. Ferry is a fellowship-trained orthopedic surgeon with extensive training in surgery of the knee and shoulder and specializes in complex shoulder problems. He completed fellowship training in sports medicine and shoulder surgery at Harvard Sports Medicine Service in Boston where he also worked with the New England Patriots, Boston Red Sox, and Boston Bruins. Dr. Ferry currently serves as a Team Physician for the Arizona Diamondbacks, Arizona Cardinals and Seattle Mariners.



Hatzidakis, Armodios - Lecturer

MD
Western Orthopaedics PC
Director, Rose Medical Center Shoulder Surgery Program
Director, Western Orthopaedics and Rose Medical Center Shoulder and Elbow Fellowship
Denver, Colorado

Jaeger, Martin - Lecturer

Dr. med.
Freiburg

Jobin, Charles - Lecturer

MD
Louis U. Bigliani Associate Professor of Orthopedic Surgery
Residency Program Director
Associate Shoulder & Elbow Fellowship Director
Columbia University
New York, New York

Charles M. Jobin, MD, specializes in treating shoulder and elbow disorders in adults, which includes rotator cuff tears, shoulder instability, tendon and ligament injuries, arthritis and fractures. He is skilled at performing total joint replacements as well as minimally invasive, arthroscopic procedures. Dr. Jobin cares for local athletes and has provided orthopedic coverage for the Tournament of Champions – the world's largest squash spectator event held annually in Grand Central Terminal. He is the team physician for Riverdale Country School and tends to the orthopedic needs of rugby, lacrosse, and club sports players at Columbia University. During his residency, he also provided coverage for Columbia University Athletics and City College of New York Athletics. Dr. Jobin's research focuses on the optimization of shoulder replacement outcomes, rotator cuff repair, and tendon injuries. He has co-authored seven book chapters on a range of orthopedic topics and published articles in several of the top journals in his field, including the Journal of Shoulder and Elbow Surgery, the American Journal of Sports Medicine, and the Journal of Bone and Joint Surgery. Dr. Jobin is a member of the International Society of Orthopaedic Surgery and Traumatology, the Alpha Omega Alpha Medical Honor Society, and the American Academy of Orthopaedic Surgeons (AAOS). In 2011, he was inducted into the AAOS Emerging Leaders Program. Inclusion in the prestigious Emerging Leaders Program denotes that an AAOS member is among "a highly select group of orthopaedists who are poised to impact the specialty now and in the future."

Mazzocca, Augustus D - Lecturer

MS, MD
Medical Director Mass General Brigham Sports Medicine
Chief Division of Sports Medicine Mass General Hospital
Department of Orthopaedic Surgery Massachusetts General Hospital
Harvard Medical School
Professor Emeritus Department of Orthopaedic Surgery UCONN School of Medicine
Boston, Massachusetts

Augustus (Gus) D. Mazzocca, MS, MD, FAAOS, FAOA is the newly appointed Director of Mass General Brigham Sports, Chief of Sports Medicine, and Director of MGH Sports Bioskills, Biomechanics and Cell Biology Laboratories for the Department of Orthopaedic Surgery at The Massachusetts General Hospital (MGH). Prior to joining the Department of Orthopaedic Surgery at MGH. Dr Mazzocca earned his BS in Biology from Denison University, MS in Applied Physiology from Springfield College, his MD from University of Connecticut School of Medicine. He completed an internship and residency with the Department of Orthopaedic Surgery at the University of Connecticut School of Medicine. He completed a Fellowship in Sports, Shoulder and Elbow Surgery at RUSH University in Chicago IL.

Wagner, Eric - Lecturer
MD, MSc
Associate Professor
Associate Upper Extremity Fellowship Director
Upper Extremity Research Director
Department of Orthopaedic Surgery
Emory University
Atlanta, Georgia

Dr. Eric Wagner works at the Emory Clinic where he specializes patients with complex wrist and upper extremity pathologies. He is internationally renowned for his innovations in arthroscopic treatment of wrist arthritis and wrist ligament injuries, arthroscopic treatment of thumb arthritis and trauma, arthroscopic treatment of distal radius and scaphoid fractures, wrist and finger arthroplasty, DRUJ arthritis and instability, recurrent wrist instability from hyperlaxity, and muscle transfers for the paralytic shoulder and elbow. He has received several national and international awards for his ground-breaking clinical research investigating a variety of topics in the upper extremity. For example, he received the top ASSH Clinical research Award in 2020 and the ASES Clinical Neer Award in 2022, both for leading randomized controlled trials on postoperative pain control. He also has a strong translational science research interest in cartilage and tendon-bone interface regeneration using stem cells, growth factors, surgical and biomechanical therapies. Dr. Wagner is well known throughout the nation and the world, having published 290 peer-reviewed journal articles, traveling to deliver delivered over 700 presentations national and international meetings, authored over 20 book chapters, and edited 3 textbooks. He serves on the editorial board for the Journal of American Academy of Orthopaedic Surgery (JAAOS), Journal of Hand Surgery GO and the ASSH Hand.e, as well as multiple committees at the American Society of Surgery for the Hand and the American Shoulder and Elbow Society. He served as the co-chair of the ASES Specialty Day at the 2024 AAOS Annual Meeting and the co-chair for the ASSH 2024 Annual Meeting. He received the prestigious Richard Gelberman Traveling Fellowship through the ASSH in 2021 with a focus on Innovations in Wrist Arthroscopy. Furthermore, he received the North American Traveling Fellowship from the American Orthopaedic Association in 2022. In his free time, Dr. Wagner enjoys fly fishing, tango and swing dancing, skiing, playing and watching basketball, traveling and reading.

Agenda

Day 1

Friday, May 12, 2023 - 06:45 - 19:00 - (includes breaks, travel-time and meals)

Activity	*Area*
FRC	Harmony
Lab	Lab 1
Lecture	Jump A & B
Coffee Break	Jump A/B Foyer
Lunch	Bistro

Schedule	Title	Moderator	Faculty	Room
06:45 - 07:45	Shuttle Transfer from Boston to Raynham with boxed breakfast			
07:45 - 08:00	Registration and transfer to lecture hall			
08:00 - 08:05	Welcome and Faculty Introductions		Elhassan, B Ponce, B	
08:05 - 08:45	General Session I: Instability and Rotator Cuff	Ferry, A Mazzocca, A		
08:05 - 08:15	Round Table Discussion: Approach to Instability in 2023		Elhassan, B Entezari, V Ferry, A Hatzidakis, A Jaeger, M Jobin, C Mazzocca, A Ponce, B Wagner, E	
08:15 - 08:20	When and How I Do My Remplissage		Ferry, A	
08:20 - 08:25	How to Do A Stress Free Open Latarjet		Mazzocca, A	
08:25 - 08:35	Round Table Discussion: Approach to Rotator Cuff in 2023		Elhassan, B Entezari, V Ferry, A Hatzidakis, A Jaeger, M Jobin, C Mazzocca, A Ponce, B Wagner, E	
08:35 - 08:40	2023 Update: Single Row vs. Double Row Cuff Repairs		Ponce, B	
08:40 - 08:45	Technique Video - Shoulder Neuroanatomy		Wagner, E	
08:45 - 09:00	Coffee Break and Transfer to Lab			Jump A/B Foyer
09:00 - 11:50	Lab Session I			
09:00 - 09:20	Demonstration #1 - Diagnostic Arthroscopy, Remplissage	Ferry, A		
09:20 - 10:00	Participants Do: Diagnostic Arthroscopy, Remplissage			
10:00 - 10:30	Demonstration #2 - Arthroscopic Neuroanatomy: 1. Suprascapular Nerve Decompression; 2. Pec Minor Release; 3. Brachial plexus Neurolysis; 4. Axillary Nerve (Anterior)	Wagner, E		
10:30 - 11:50	Participants Do: Neuroanatomy	Elhassan, B		
11:50 - 12:00	Transfer to Lunch Venue			
12:00 - 13:00	Lunch with Presentation: My Journey with Shoulder Tendon Transfers		Elhassan, B	Bistro
13:00 - 13:30	General Session II: Superior Capsular Reconstruction and LTT Tendon Transfer	Entezari, V Hatzidakis, A		
13:00 - 13:10	Role and Demonstration of SCR		Hatzidakis, A	
13:10 - 13:20	SCR vs Trapezius		Wagner, E	

13:20 - 13:30	Panel Q & A		Elhassan, B Entezari, V Ferry, A Hatzidakis, A Jaeger, M Jobin, C Mazzocca, A Ponce, B Wagner, E
13:30 - 13:50	Coffee Break and Transfer to Lab		
13:50 - 17:10	Lab Session II		
13:50 - 14:20	Demonstration #3 - Perform BIO SCR versus SCR	Hatzidakis, A	
14:20 - 14:50	Participants Do: SCR		
14:50 - 15:30	Demonstration #4 - LTT: 1. Harvest; 2. Passage | Fixation; 3. Achilles Attach to Muscle	Elhassan, B Entezari, V	
15:30 - 17:05	Participants Do: LTT		
17:05 - 17:10	Closing Remarks Summarize and Reflections from the Labs		Elhassan, B Ponce, B
17:10 - 19:00	Shuttle Transfer from Raynham to Boston		
19:00 - 19:00	Faculty and Participant Dinner at Davios Seaport		

Day 2

Saturday, May 13, 2023 - 07:00 - 14:25 - (includes breaks, travel-time and meals)

Activity	*Area*
FRC	Harmony
Lab	Lab 1
Lecture	Jump A & B
Coffee Break	Jump A/B Foyer
Lunch	Bistro

Schedule	Title	Moderator	Faculty	Room
07:00 - 07:45	Shuttle Transfer from Boston to Raynham with boxed breakfast			
07:45 - 08:00	Transfer to Lecture Hall			
08:00 - 08:05	Opening Remarks		Elhassan, B Ponce, B	
08:05 - 08:30	General Session III: Other Shoulder Tendon Transfers and Reverse Shoulder Arthroplasty	Elhassan, B Jobin, C		
08:05 - 08:15	When and How to do a Latissimus Dorsi | Teres Major Transfer		Entezari, V	
08:15 - 08:25	Pearls to Doing a Reverse Total Shoulder		Jaeger, M	
08:25 - 08:30	Q & A		Elhassan, B Entezari, V Ferry, A Hatzidakis, A Jaeger, M Jobin, C Mazzocca, A Ponce, B Wagner, E	
08:30 - 08:45	Coffee Break and Transfer to Lab			Jump A/B Foyer
08:45 - 12:15	Lab Session III			
08:45 - 09:05	Participants Do -Harvest Lower Trapezius			
09:05 - 09:30	Demonstration #5 -RSA with Tendon Transfer: 1. Latissimus to Subscapularis; 2. Latissimus for External Rotation	Elhassan, B Wagner, E		
09:30 - 12:15	Participants - Tendon Transfers and RSA with Tendon Transfer			

12:15 - 12:25	Transfer to Lunch Venue		
12:25 - 13:15	Lunch and Case Discussions		Bistro
13:15 - 14:20	Lab Session IV		
13:15 - 14:20	Participants Choose Their Own Adventure - Select a Tendon Transfer and Open Exploration of Anatomy | Possible Examples: Triple Transfer, Pec to Scapula, Pedicle Pec for Deltoid		
14:20 - 14:25	Closing Remarks | Wrap Up	Elhassan, B Ponce, B	
14:25 - 14:25	Shuttle Transfer from Raynham to MA Airports and Boston Hotel		

AO NA Disclaimer 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:
AO NA 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.

The opinions or views expressed in this live continuing medical education activity are those of the faculty and do not necessarily reflect the opinions or recommendations of AO North America or any commercial supporter. The certificate provided pertains only to the participants' completion of the course.

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 AO NA 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 J&JMedTech.

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.