Orthobiologics in the Real World
AOSSM Surgical Skills Course

April 17–18, 2020
OLC Education and Conference Center
Rosemont, IL

PRELIMINARY PROGRAM
**COURSE CO-CHAIRS**

Brian J. Cole MD, MBA  
Jason L. Dragoo MD  
Rachel M. Frank MD

**FACULTY**

Jeremy A. Alland MD  
Tariq M. Awan DO  
Jack M. Bert MD  
Brice W. Blatz MD, MS  
Jack Farr II, MD  
Steven Frey MD  
Andrew W. Gottschalk MD  
Kamran Hamid MD, MPH  
Sadiq Haque DO  
Douglas F. Hoffman MD  
Daniel G. Malone MD, RMSK, FACR  
Claude T. Moorman III, MD  
Kristin Oliver MD  
Alberto J. Panero DO  
Bruno Péault PhD  
Keith Reich DO  
Scott A. Rodeo MD  
Mark Sakr DO  
Michael Swartzon MD  
John M. Tokish MD  
Eugene Yousik Roh MD  
Kenneth R. Zaslav MD

**COURSE DESCRIPTION**

AOSSM’s Orthobiologics Course returns in 2020 with Co-Chairs Brian J. Cole MD, MBA, Jason L. Dragoo MD and Rachel M. Frank MD, along with renowned faculty who are thought leaders in the research and clinical use of orthobiologics and regenerative medicine techniques. The aim of the course is to provide orthopaedic surgeons with resources on how to properly use currently available biologics for treating musculoskeletal disorders. Through didactic lectures, case discussions, live and video demonstrations and hands-on practice with cadavers, the course will provide attendees with clinical decision-making skills, an overview of available technologies and regulations along with the best and most up-to-date evidence and methods to implement orthobiologics into your practice.

**WHAT MAKES THIS COURSE UNIQUE?**

- Opportunity to learn from experts in the field of orthobiologics in a small and comfortable setting with easy access to faculty
- Hands-on practice with adipose tissue and bone marrow harvesting and processing on cadavers
- Hands-on practice with ultrasound guided injections on whole cadavers from the shoulder down to the ankles
- A modern, state-of-the-art learning environment

**LEARNING OBJECTIVES**

Upon completion of this educational activity, participants should be able to:

- Discuss current indications for orthobiologics based on the published evidence
- Discuss the proper selection of biologics for specific treatments
- Explain the role of MSK ultrasound in clinical practice
- Recognize normal and abnormal ultrasound anatomy of the shoulder, elbow, hip, knee and ankle
- Utilize ultrasound guided techniques for MSK injections

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**WHO SHOULD ATTEND?**

Orthopaedic surgeons, physician extenders and primary care specialists with a desire to learn or reinforce their knowledge on the use of orthobiologics, or an interest in expanding their practice into the field of orthobiologics.

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**HOUSING**

A block of rooms has been reserved at Hyatt Rosemont (one block from the Orthopaedic Learning Center) at a group rate of $115. Reservations may be made by calling 800.233.1234 and asking for the AOSSM Surgical Skills Course Room Block. You can also book directly online here. The reservation deadline is March 27, 2020. Reservations after this date may be at a higher rate. Attendees are encouraged to book early.
REGISTRATION HOURS
Friday, April 17  1:45 pm – 8:00 pm
Saturday, April 18  6:30 am – 4:00 pm

REGISTRATION FEES*

<table>
<thead>
<tr>
<th>Fees BEFORE March 20, 2020</th>
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<tbody>
<tr>
<td>AOSSM Members</td>
<td>$2,400</td>
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<td>AOSSM Non-Members</td>
<td>$2,900</td>
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<td>Resident / Fellow / Military / Allied Health</td>
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*Registration fees do not include housing

CANCELLATION / REFUND POLICY
A written request to cancel must be received at the AOSSM office prior to March 20, 2020. The registration fee, minus a $250 processing fee, will be refunded following the conference. No refunds will be made after March 20, 2020.

COMPLIMENTARY MEALS
Dinner is provided on Friday, breakfast and lunch on Saturday in the OLC Education & Conference Center.

PROGRAM INDEPENDENCE
AOSSM attests that the people responsible for the development of this live activity did so independently and were not influenced in any way by commercial supporters.

ACCREDITATION
The American Orthopaedic Society for Sports Medicine (AOSSM) is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

AOSSM designates this live activity for a maximum of 15.0 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

DISCLAIMER
The material presented in this continuing medical education program is being made available by the AOSSM for educational purposes only. This material is not intended to represent the only methods or procedures appropriate for the medical situation discussed, but rather it is intended to present an approach, view, statement, or opinion of the faculty, which may be helpful to others who face similar situations. Neither the content (whether written or oral) of any course, seminar or other presentation in the program, nor the use of a specific product in conjunction therewith, nor the exhibition of any materials by any parties coincident with the program, should be construed as indicating endorsement or approval of the views presented, the products used or the materials exhibited by the AOSSM, its Committees, Commissions or Affiliates. The AOSSM makes no statements, representations or warranties (whether written or oral) regarding the Food and Drug Administration (FDA) status of any product used or referred to in conjunction with any course, seminar or other presentation being made available as part of this course. Faculty members shall have sole responsibility to inform attendees of the FDA status of each product that is used in conjunction with any course, seminar or presentation and whether such use of the product is in compliance with FDA regulations.

DISCLOSURE STATEMENT
In accordance with the guidelines of the ACCME, it is the policy of the AOSSM that faculty and planners disclose to the learners all financial relationships during the past twelve months with any commercial interest (any entity producing, marketing, re-selling or distributing health care goods and services consumed by, or used on, patients). Any and all disclosures will be provided in the final program that is distributed at the meeting. In accordance with AOSSM policy, faculty participation is predicated upon timely submission and review of AOSSM disclosures. Non-compliance results in faculty being stricken from the program.

AMERICANS WITH DISABILITIES ACT
The AOSSM wishes to take those steps to ensure that no individual with a disability is excluded, denied services, segregated or otherwise treated differently than other individuals because of the absence of auxiliary aids and services. If you require any of the auxiliary aids or services identified in the Americans with Disabilities Act in order to attend this program, please contact AOSSM prior to arrival at info@aossm.org.
<table>
<thead>
<tr>
<th>ORTHOBIOLOGICS IN THE REAL WORLD</th>
<th>ORTHOBIOLOGICS CASE DISCUSSIONS</th>
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<tbody>
<tr>
<td><strong>2:40 pm – 4:05 pm</strong> Moderator: Brian J. Cole MD, MBA</td>
<td><strong>6:40 pm – 8:10 pm</strong> Moderator: Rachel M. Frank MD</td>
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<tr>
<td><strong>2:40 pm – 2:45 pm</strong> Welcome / Opening Comments Brian J. Cole MD, MBA</td>
<td><strong>6:40 pm – 6:50 pm</strong> Knee Osteoarthritis: Live Patient Decision-Making Brian J. Cole MD, MBA</td>
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<tr>
<td>Jason L. Dragoo MD Rachel M. Frank MD</td>
<td><strong>6:50 pm – 7:00 pm</strong> Lateral Epicondylitis Jeremy A. Alland MD</td>
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<td><strong>2:45 pm – 3:00 pm</strong> Orthobiologics at 30,000 feet – Setting the table for the course Rachel M. Frank MD</td>
<td><strong>7:00 pm – 7:10 pm</strong> Patellar Tendonitis: Live Patient Decision-Making Brian J. Cole MD, MBA</td>
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<td><strong>3:00 pm – 3:30 pm</strong> Overview of Regulatory Process Kenneth R. Zaslav MD</td>
<td><strong>7:10 pm – 7:20 pm</strong> Hamstring Strains and Muscle Injury: PRP, PPP, Resolving the Controversy Kristin Oliver MD</td>
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<td><strong>3:30 pm – 3:45 pm</strong> Implementing Orthobiologics into Practice – Billing Brian J. Cole MD, MBA</td>
<td><strong>7:20 pm – 7:30 pm</strong> Achilles Tendinitis and Plantar Fasciitis Kamran Hamid MD, MPH</td>
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<tr>
<td><strong>3:45 pm – 3:50 pm</strong> Session Summary</td>
<td><strong>7:30 pm – 7:40 pm</strong> Avascular Necrosis and Subchondral Findings Rachel M. Frank MD</td>
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<tr>
<td><strong>3:50 pm – 4:05 pm</strong> Question and Answer All Faculty</td>
<td><strong>7:40 pm – 7:50 pm</strong> Meniscus Tears and Cartilage Lesions Brian J. Cole MD, MBA</td>
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<tr>
<td><strong>RAPID FIRE OVERVIEW OF AVAILABLE TECHNOLOGY</strong></td>
<td><strong>7:50 pm – 7:55 pm</strong> Session Summary Brian J. Cole MD, MBA</td>
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<tr>
<td><strong>4:05 pm – 6:25 pm</strong> Moderator: Jason L. Dragoo MD</td>
<td><strong>7:55 pm – 8:10 pm</strong> Question and Answer All Faculty</td>
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<td><strong>4:05 pm – 4:20 pm</strong> Hyaluronic Acid Injections Jack M. Bert MD</td>
<td><strong>8:10 pm</strong> ADJOURN</td>
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<td><strong>4:20 pm – 4:35 pm</strong> Near-Term and Pharmacologic Options Scott A. Rodeo MD</td>
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SATURDAY, APRIL 18, 2020
7:00 am–4:00 pm

6:30 am–7:00 am  Breakfast
7:00 am–7:05 am  Daily Schedule Overview
Brian J. Cole MD, MBA
Jason L. Dragoo MD
Rachel M. Frank MD

VIDEO TECHNIQUE CORNER (HOW YOU DO IT)
7:00 am–8:25 am  Moderator: Jack Farr II, MD
7:05 am–7:15 am  PRP Processing Techniques
Scott A. Rodeo MD
7:15 am–7:25 am  PRP and Muscle Injection Technique
Kristin Oliver MD
7:25 am–7:35 am  BMA / BMC Technique: ASIS
Brian J. Cole MD, MBA
7:35 am–7:45 am  BMA / BMC Technique: PSIS
Kristin Oliver MD
7:45 am–7:55 am  Amniotic
John M. Tokish MD
7:55 am–8:05 am  Treatment of Subchondral Bone: BMA / BMC vs. Subchondroplasty
Jack Farr II, MD
8:05 am–8:10 am  Session Summary
8:10 am–8:25 am  Question and Answer
All Faculty
8:25 am–9:00 am  Moderator: John M. Tokish MD
8:25 am–8:40 am  Live Demonstration: Arthroscopic Harvest of Adipose Tissue
Jason L. Dragoo MD
8:40 am–8:50 am  Video Technique: Adipose – Lipogems / Liposuction Harvest
Claude T. Moorman III, MD
8:50 am–9:00 am  Video Technique: Adipose – Syringe Emulsification
Jason L. Dragoo MD
9:00 am–9:15 am  Break

BIOLOGICS LAB
9:15 am–11:00 am  Cadaver Lab: Adipose Derived Harvest and Processing Techniques
Lab Leader: Claude T. Moorman III, MD
Technique 1: Lipoaspiration
Technique 2: Adiprep / Syringe Emulsification / Lipospiration
10:30 am–11:00 am  Lab Leader: Kristin Oliver MD
Technique 3: BMA / BMC Aspiration Techniques of the Anterior and Posterior Iliac Crest
11:00 am–11:15 am  Lunch Break

ULTRASOUND LECTURES
11:15 am–12:20 pm  Moderator: Jeremy A. Alland MD
11:15 am–11:30 am  Ultrasound Theory and Technology
Douglas F. Hoffman MD
11:30 am–12:20 pm  Ultrasound Techniques: Shoulder / Elbow / Knee / Ankle / Hip Injection Intra-articular
Douglas F. Hoffman MD
12:20 pm–12:30 pm  Break

ULTRASOUND DIAGNOSTICS / ULTRASOUND GUIDED INJECTIONS LAB
12:30 pm – 4:00 pm  The goal of this lab is to allow attendees to familiarize themselves with ultrasound guided injections in the following areas (as time permits):
1:00 pm–2:00 pm  Shoulder
• AC Joint
• Biceps
• Subacromial
• Intra-articular Shoulder Injections
Live models available for imaging of the shoulder joint
2:00 pm–2:30 pm  Elbow
• Intra-articular
• Lateral Epicondyle
2:30 pm–3:00 pm  Hip
• Intra-articular (anterior recess)
3:00 pm–3:30 pm  Knee
• Intra-articular
• Infrapatellar
3:30 pm–4:00 pm  Ankle
• Intra-articular