

AMERICAN ACADEMY OF ORTHOPAEDIC SURGEONS PRESENTS

# THE NEXT GENERATION OF BIOLOGICS:

ORTHOBIOLOGICS AND THE MODERN ATHLETE—  
OPTIMIZING EVIDENCE, RECOVERY, AND RETURN TO PLAY

July 8, 2026  
Seattle, WA

Co-Chairs: Jason Dragoo, MD, FAAOS; Scott Rodeo, MD, FAAOS

**AAOS**  
AMERICAN ACADEMY OF  
ORTHOPAEDIC SURGEONS



**PURPOSE** This symposium brings together leading experts to explore the science, regulation, and real world application of orthobiologics, empowering clinicians and performance professionals to optimize recovery and elevate outcomes for the modern athlete.

## AGENDA

8:00 a.m.

### Introduction of Symposium and Speakers

Scott Rodeo, MD, FAAOS

Professor of Orthopaedic Surgery, Weill Cornell Medicine; Orthopaedic Surgeon, Hospital for Special Surgery; Head Team Physician, New York Giants; Past President, Biologics Association

### Session 1

#### Regulatory Environment Governing the use of OrthoBiologics in the US

Moderator: Jason L. Dragoo, MD, FAAOS

Professor and Vice Chair of Academic Affairs, Endowed Chair of Regenerative Medicine, University of Colorado; Director, UCHHealth Steadman Hawkins Clinic Denver; Head Team Physician, Denver Nuggets; Inaugural President, Biologics Association

8:05 a.m.

#### The Regulatory and Anti-Doping Environment Surrounding Biologics

Matthew Fedoruk, PhD

Chief Science Officer, U.S. Anti-Doping Agency (USADA)

8:15 a.m.

#### Deregulation of Orthobiologics in the Current Political Climate

Scott P. Bruder, MD, PhD

Founder and Chief Executive Officer, Bruder Consulting & Venture Group

8:25 a.m.

#### Medical Tourism and the Use of Stem Cell Treatments for Patients in the United States

Theodore F. Schlegel, MD, FAAOS

Chief Medical Officer, American Orthopaedic Partners

8:35 a.m.

#### Panel Discussion, Case-based Discussion

### Session 2

#### Evidence-Based Practice

Moderator: Constance R. Chu, MD, FAAOS

Professor of Orthopaedic Surgery (Sports Medicine), Stanford University; Director, Joint Preservation Center, VA Palo Alto

9:05 a.m.

#### Priming the Body and Optimizing Recovery for Biologic Interventions

Reza Jazayeri, MD, FAAOS

Orthopaedic Sports Medicine Surgeon, Kaiser Permanente

9:15 a.m.

#### The Science Behind Clinical Response to PRP

Constance R. Chu, MD, FAAOS

Professor of Orthopaedic Surgery (Sports Medicine), Stanford University; Director, Joint Preservation Center, VA Palo Alto

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# AGENDA

9:25 a.m.

## **The Data Behind Alternative PRP Formulations, Including $\alpha$ 2 Macroglobulin (A2M) and Plasma Concentration**

Walter Sussman, DO  
Former Head Physician, University of Massachusetts  
Dartmouth

9:35 a.m.

## **An Evidence-Based Approach to Bone Marrow Aspiration Versus Cell-Based Therapies**

Donnie Buford, MD, FAAOS  
Past President, Interventional Orthobiologics Foundation (IOF)

9:45 a.m.

## **Single-Cell Genomic Analyses of Concentrated Bone Marrow Aspirate**

Scott Rodeo, MD, FAAOS  
Professor of Orthopaedic Surgery, Weill Cornell Medicine; Orthopaedic Surgeon, Hospital for Special Surgery; Head Team Physician, New York Giants; Past President, Biologics Association

9:55 a.m.

## **The Use of Orthobiologics for Muscle Regeneration in Athletes**

Ryan Kruse, MD  
Head Team Physician, University of Iowa

10:05 a.m.

## **The Use of Micronized Fat (mFAT) in Athletes**

Leonardo Oliveira, MD  
Sports Medicine Physician, Cleveland Clinic

10:15 a.m.

## **Panel Discussion, Case-Based Discussion**

10:45 a.m.

## **Break**

### **Session 3**

#### **Emerging Technologies**

Moderator: Matthew Provencher, MD, MBA, FAAOS  
Sports Medicine Surgeon, The Steadman Clinic; Consultant Team Physician, New England Patriots

11:00 a.m.

## **Emerging Technology: The Use of Exosomes in Athletes**

Timothy A. Moseley, PhD  
Chief Scientific Officer, Direct Biologics

11:10 a.m.

## **Emerging Technology: The Use of Peptides and Supplements in Athletes**

James Voos, MD, FAAOS  
Chair, Department of Orthopaedic Surgery, University Hospitals Cleveland Medical Center;  
Head Team Physician, Cleveland Browns

11:20 a.m.

## **The Use of Orthobiologics to Improve Military Performance**

Xiaoning (Jenny) Yuan, MD, PhD  
Director, Musculoskeletal Injury Rehabilitation Research for Operational Readiness (MIRROR); Vice Chair for Research, Department of Physical Medicine and Rehabilitation, Uniformed Services University of the Health Sciences

11:30 a.m.

## **Panel Discussion, Case-Based Discussion**

11:50 a.m.

## **Lunch**

12:45 p.m.

## **Keynote: Thom Mayer, MD**

Thom Mayer, MD is the Medical Director for the NFL Players Association, a highly successful entrepreneur, acclaimed speaker and author, recognized expert on healthcare leadership, hardwiring flow, and patient experience, as well as an emergency physician-sports medicine leader of international renown. He served as the Command Physician at the Pentagon on 9/11, the Incident Commander for the 1st bioterrorism attack on US soil, author of the NFL Concussion and Covid 19 guidelines and led a Mobile Emergency Team in Ukraine following the outbreak of the war.

He is among the most widely respected leaders in times of crisis and is a highly sought after speaker and consultant across many businesses and industries.

He was recently nominated to the Pro Football Hall of Fame and USA Today named him one of the "100 Most Important People in the NFL" and the "Top Speaker to Book In 2025." Tom Peters, the internationally acclaimed expert on leading, referred to his work as "gaspworthy." His books have sold hundreds of thousands of copies and won numerous awards.



### **Session 4**

#### **Real-World Evidence (non-CME)**

Moderator: Seth L. Sherman, MD, FAAOS  
Orthopaedic Surgeon, Stanford University; Team Orthopaedic Surgeon, Stanford Cardinal Football

1:00 p.m.

## **The AAOS Orthobiologic Registry**

Kurt P. Spindler, MD, FAAOS  
Orthopaedic Surgeon, Cleveland Clinic; Past President, American Orthopaedic Society for Sports Medicine (AOSSM)

1:10 p.m.

## **The Biologic Association Biorepository Program (BARB)**

Jason L. Dragoo, MD, FAAOS  
Professor and Vice Chair of Academic Affairs, Endowed Chair of Regenerative Medicine, University of Colorado; Director, UCHHealth Steadman Hawkins Clinic Denver; Head Team Physician, Denver Nuggets; Inaugural President, Biologics Association

# AGENDA

1:20 p.m.

## **AMSSM and Orthobiologics: Review of Findings and Future Directions**

*Kimberly G. Harmon, MD  
Professor of Sports Medicine, University of Washington;  
Past President, American Medical Society for Sports  
Medicine (AMSSM)*

1:30 p.m.

## **Use of Real-World Evidence to Support Regulatory Decision-Making for Medical Devices — Final Guidance (December 2025)**

*S. Raymond Golish, MD, PhD, MBA, FAAOS  
Deputy Director, FDA Office of Orthopaedic Devices*

1:40 p.m.

## **Panel Discussion, Case-Based Discussion**

2:10 p.m.

**Break**

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## **Session 5**

### **Orthobiologics in the High-Performing Athlete**

*Moderator: Bert R. Mandelbaum, MD, FAAOS  
Chief Medical Officer, U.S. Soccer; Past President, Biologics  
Association; Past President, International Cartilage  
Regeneration & Joint Preservation Society (ICRS)*

2:25 p.m.

#### **The Use of Orthobiologics in Olympic Athletes**

*Casey Batten, MD  
Chief Medical Officer, LA28 Olympic and Paralympic Games*

2:35 p.m.

#### **The Use of Orthobiologics in NCAA Athletes**

*Asheesh Bedi, MD, FAAOS  
Head Orthopaedic Team Physician, University of Michigan;  
Team Physician, Chicago Bears; Medical Director, National  
Basketball Players Association (NBPA)*

2:45 p.m.

#### **The Use of Orthobiologics in NFL Athletes**

*Timothy S. McAdams, MD  
Team Physician, San Francisco 49ers*

2:55 p.m.

#### **The Use of Orthobiologics in NBA Athletes**

*Brian Cole, MD, MBA, FAAOS  
Head Team Physician, Chicago Bulls; President, Biologics  
Association; Past President, Arthroscopy Association of  
North America (AANA)*

3:05 p.m.

#### **The Use of Orthobiologics in MLB Athletes**

*Christopher Ahmad, MD, FAAOS  
Head Team Physician, New York Yankees*

3:15 p.m.

#### **The Use of Orthobiologics in International Soccer**

*Bert R. Mandelbaum, MD, FAAOS  
Chief Medical Officer, U.S. Soccer; Past President, Biologics  
Association; Past President, International Cartilage  
Regeneration & Joint Preservation Society (ICRS)*

3:25 p.m.

#### **Panel Discussion, Case-Based Discussion**

3:55 p.m.

#### **Conclusion, Final Remarks**

4:00 p.m.

**Conclusion**