

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, Biologic
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,
Biologic 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.

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

9:15 a.m.

Priming the Body and Optimizing Recovery for Biologic Interventions

Reza Jazayeri, MD, FAAOS

Director of Longevity, Department of Optimization and
Regenerative Medicine, DOCS Health

continued on next page

AGENDA

9:25 a.m.

The Data Behind Alternative PRP Formulations, Including α 2 Macroglobulin (A2M) and Plasma Concentration

Walter Sussman, MD
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
Chair, Biologic Association, 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, Biologic
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,
Biologic Association

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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

Session 5

Orthobiologics in the High-Performing Athlete

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

2:25 p.m.

The Use of Orthobiologics in International Soccer

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

2:35 p.m.

The Use of Orthobiologics in Olympic Athletes

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

2:45 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)*

2:55 p.m.

The Use of Orthobiologics in NFL Athletes

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

3:05 p.m.

The Use of Orthobiologics in NBA Athletes

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

3:15 p.m.

The Use of Orthobiologics in MLB Athletes

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

3:25 p.m.

Panel Discussion, Case-Based Discussion

3:55 p.m.

Conclusion, Final Remarks

4:00 p.m.

Conclusion

Industry Acknowledgment

The American Academy of Orthopaedic Surgeons (AAOS) extends sincere appreciation to the below companies for their support of this education program.

Grants

Gold Level: Arthrex