Arthroscopy Association of North American and Biologics Association Orthobiologics Ultrasound Lab Course

The AANA/BA Orthobiologics Ultrasound Lab is an intensive two-day, hands-on course designed for orthopaedic surgeons and sports medicine specialists seeking to expand their clinical orthobiologics practice with confidence and precision. Combining focused didactic instruction with extensive ultrasound-guided procedural training, this course covers the full spectrum of orthobiologic applications — from platelet-rich plasma, bone marrow aspirate concentrate, and adipose-derived (MFAT) therapies to advanced ultrasound-guided injection techniques across the shoulder, elbow, hip, and knee.

Day One focuses on the foundational science and clinical application of orthobiologic agents, alongside ultrasound-guided procedures of the shoulder and elbow, including regulatory considerations shaping contemporary practice. Day Two builds on this foundation with ultrasound anatomy and procedural technique for the hip and knee, subchondral injection for bone marrow lesions, and practice-building strategies for integrating orthobiologics ethically and effectively into clinical care. Both days conclude with extensive hands-on lab time, giving participants direct procedural practice using live models in a low ratio, high-repetition learning environment — 50 attendees across 25 ultrasound stations, ensuring ample hands-on time with expert faculty guidance throughout.

Participants will leave this course equipped with the technical skills, evidence-based knowledge, and clinical judgment to confidently incorporate ultrasound-guided orthobiologic procedures into their practice.

Learning Objectives

1. **Describe** the basic science underlying platelet-rich plasma, bone marrow aspirate concentrate, and adipose-derived (MFAT) orthobiologic therapies, including their proposed mechanisms of action in musculoskeletal healing.
2. **Differentiate** among available orthobiologic preparations and select the appropriate biologic agent based on patient presentation, tissue target, and current evidence.
3. **Identify** relevant ultrasound anatomy of the shoulder, elbow, hip, and knee as it pertains to safe and accurate procedural guidance.
4. **Demonstrate** proper technique for ultrasound-guided injection procedures of the shoulder, elbow, hip, and knee using live models under faculty supervision.
5. **Apply** subchondral injection technique for the management of bone marrow lesions of the knee and hip.
6. **Evaluate** current evidence regarding the use of biologic augmentation in surgical procedures and integrate this evidence into clinical decision-making.
7. **Summarize** current regulatory considerations governing the clinical use of orthobiologic therapies.
8. **Develop** a practical, ethical framework for introducing and discussing orthobiologic treatment options with patients in an office-based setting.
9. **Analyze** clinical case scenarios to refine diagnostic and treatment reasoning for patients who may benefit from orthobiologic intervention.

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Financial Disclosure/Conflict of Interest

It is the mission of AANA as a provider accredited by ACCME to provide independent, fair, balanced, bias-free, peer-reviewed continuing medical education to its learners. In accordance with the ACCME Standards for Integrity and Independence, AANA requires that all CME activities ensure content meets the ACCME requirements for validity (Standard 1), prevents commercial bias and marketing in accredited continuing education (Standard 2), ensures that any individual in the position to control AANA educational content discloses interests with ineligible companies* to AANA and that any relevant financial interests are identified and mitigated, and that all interests are disclosed to learners (Standard 3) and AANA ensures that any and all commercial support (excluding fees for advertising and exhibits, if received), is managed appropriately and disclosed to leaners (Standard 4).

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AANA/BA Orthobiologics Ultrasound Course
October 10-11, 2026

The Westin O'Hare

Course Chairs
Don A. Buford, M.D., FAANA and Brian J. Cole, M.D., M.B.A., FAANA

Associate Faculty
TBD

Saturday Session	
7-8 a.m.	Registration, Breakfast, and Vendor Networking
8-8:05 a.m.	Course Welcome and Introduction
8:05-8:25 a.m.	Basic Orthobiologic Basic Science
8:25-8:45 a.m.	Platelet Rich Plasma Use in Orthopaedics
8:45 – 9:05 a.m.	Bone Marrow Use in Orthopaedics
9:05-9:25 a.m.	Adipose (MFAT) Use in Orthopaedics
9:25-9:40 a.m.	PRP, Bone Marrow, and Adipose Q&A
9:40-9:50 a.m.	Morning Break
9:50-10:10 a.m.	Ultrasound Anatomy of the Shoulder
10:10-10:40 a.m.	Ultrasound Guided Procedures Around the Shoulder
10:40-10:50	Morning Break
10:50-11:10 a.m.	Ultrasound Anatomy of the Elbow
11:10-11:40 a.m.	Ultrasound Guided Procedures Around the Elbow
11:40 a.m.-12 p.m.	Regulatory Updates
12-12:30 p.m.	Break

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12:30-1 p.m.	Lunch and Vendor Networking
1 p.m.-1:30 p.m.	Break
1:30-1:40 p.m.	Hands-on Lab Orientation
1:40-5:40 p.m.	Shoulder & Elbow Ultrasound and Procedural Labs

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Sunday Session	
7-8 a.m.	Breakfast, and Vendor Networking
8-8:10 a.m.	Day 2 Welcome/Key Learning Points from Saturday
8:10-8:30 a.m.	Ultrasound Anatomy of the Knee
8:30-9 a.m.	Ultrasound Guided Procedures Around the Knee
9-9:20 a.m.	Subchondral Injections for Bone Marrow Lesions
9:20-9:30 a.m.	Morning Break
9:30-9:50 a.m.	Ultrasound Anatomy of the Hip
9:50-10:20 a.m.	Ultrasound Guided Procedures Around the Hip
10:20-11 a.m.	How to Sell Orthobiologics in the Office Without Selling Your Soul
11-11:15 a.m.	Biologic Augmentation of Surgical Procedures…Where Is the Evidence?
11:15-11:45 a.m.	Faculty AMA: Clinical Cases and Open Discussion on Orthobiologics
11:45 a.m.-12:15 p.m.	Break
12:15-12:45 p.m.	Lunch and Vendor Networking
12:45-1:15 p.m.	Break
1:15-1:30 p.m.	Hands-on Lab Transition/Station Assignments
1:30-4:30 p.m.	Hip and Knee Ultrasound and Procedural Labs
4:30 p.m.	Course adjournment/Certificates/Faculty Closing Remarks

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