

MSK Ultrasound Guided Injection Training Course



**INSTRUCTOR: Michael Meng, DC,
RMSK, ARNP, FNP-BC, FIAAM**

Training location: Gulf Coast Biologics
4331 Veronica S Shoemaker Blvd,
Fort Myers, FL 33916

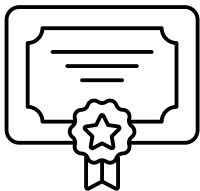
**July 26th &
27th, 2024**

COURSE OBJECTIVES

- Develop proficiency in advanced musculoskeletal (MSK) ultrasound imaging techniques for precise visualization of anatomical structures relevant to regenerative medicine injections.
- Discuss the principles and mechanisms of action behind various regenerative injection therapies, including platelet-rich plasma (PRP) and progenitor stem cell therapy.
- Master the art of needle placement and trajectory adjustments under ultrasound guidance to optimize accuracy and efficacy of injections.
- Enhance anatomical knowledge and spatial awareness to identify target areas for injections while avoiding critical structures.
- Practice advanced injection techniques for challenging anatomical regions and pathologies, such as tendons, ligaments, joints, nerves, and soft tissue structures.
- Discuss strategies for patient positioning and probe manipulation to optimize ultrasound imaging and needle visualization during injections.
- Explore advanced injection protocols and treatment algorithms tailored to specific musculoskeletal conditions, including tendonitis, osteoarthritis, ligament injuries, and more.
- Analyze and interpret ultrasound findings to guide clinical decision-making and treatment planning in regenerative medicine injections.
- Incorporate evidence-based practices and emerging technologies into injection therapies for improved patient outcomes and safety.
- Participate in hands-on workshops and live demonstrations to refine injection techniques under the guidance of experienced practitioners.
- Foster interdisciplinary collaboration and communication skills to facilitate comprehensive patient care and multidisciplinary treatment approaches.

COURSE OBJECTIVES CONTINUED

- Demonstrate proficiency in performing advanced musculoskeletal ultrasound-guided injections through practical assessments and case-based scenarios.
- Apply ethical and legal considerations in the practice of regenerative medicine injections, including informed consent, patient education, and documentation.
- Review the latest technology in advanced autologous biologics, including clinical platelet-rich plasma, bone marrow aspirate and concentrate.
- Outline differences in autologous biological preparation validation results, emphasizing platelet dosing and bioformulations.
- Identify sonoanatomy of shoulder and knee in live models.
- Demonstrate proper ultrasound scanning techniques in upper and lower extremities.
- Identify sonoanatomy of the PSIS for bone marrow aspiration in cadaver models.
- Assess the differences and potential of bone marrow aspiration methods as orthobiological injectates.



Upon completion of the course, receive continuing education credits and a certificate of proficiency, acknowledging your expertise in musculoskeletal ultrasound-guided injection techniques.

ACCREDITATION STATEMENT

In support of improving patient care, this activity has been planned and implemented by Albert Einstein College of Medicine-Montefiore Medical Center and Gulf Coast Biologics.

Albert Einstein College of Medicine-Montefiore Medical Center is jointly accredited by the Accreditation Council for Continuing Medical Education (ACCME), the Accreditation Council for Pharmacy Education (ACPE), and the American Nurses Credentialing Center (ANCC), to provide continuing education for the healthcare team.

CREDIT DESIGNATION STATEMENT

Albert Einstein College of Medicine – Montefiore Medical Center designates this live activity for a maximum

13 AMA PRA Category 1 Credits™.

Physicians should claim only credit commensurate with the extent of their participation in this activity.

Montefiore Einstein

TRAINING AGENDA

Friday Schedule

Time	Location	Topic
7:30 - 8:00	Vendor Hall	Breakfast
8:00 - 8:30	Auditorium	Ultrasound Basics, Michael Meng, DC, RMSK, ARNP, FNP-BC, FIAAM: Orientation of transducer, ultrasound terminology.
8:30 - 10:00	Auditorium	Shoulder, Michael Meng: Review anatomy, sonoanatomy, conditions, and common pathologies. Review common ultrasound guided injections: Subacromial-subdeltoid bursa, Biceps tendon, PGH, AC joint, anterior-subcoracoid recess, suprascapular, and supraclavicular nerves.
10:00 - 10:15	Vendor Hall	Break
10:15 - 12:00	Auditorium	Shoulder, Michael Meng: Practice hands on scanning and ultrasound guided injections.
12:00 - 1:00	Vendor Hall	Lunch
1:00 - 2:30	Auditorium	Knee, Michael Meng: Review anatomy, sonoanatomy, conditions, and common pathologies. Review common ultrasound guided injections: Suprapatellar & infrapatellar recess, infrapatellar bursae, ACL, PCL, medial & lateral meniscus.
2:30 - 2:45	Vendor Hall	Break
2:45 - 4:30	Auditorium	Knee, Michael Meng: Practice hands on scanning and ultrasound guided injections.
4:30 - 5:00	Auditorium	Questions & Answers Session, Michael Meng



TRAINING AGENDA

Saturday Schedule

Time	Location	Topic
7:30 - 8:00	Vendor Hall	Breakfast
8:00 - 9:00	Auditorium	Workshop, Michael Meng: Practice hands-on scanning for Knee and Shoulder joints on Live Models . Practice identifying landmarks and common pathologies for each joint including evaluation of soft tissue pathologies and findings.
9:00 - 9:30	Auditorium	Lecture: Peter Everts, PhD, FRSM will present Significance of Orthobiological Formulation.
9:30 - 10:00	Auditorium	Lecture: Luga Podesta, MD will present Nuances of Treatment Application.
10:00 - 10:15	Auditorium	Introduction to Bone Marrow Aspiration: Luga Podesta, MD.
10:15 - 12:00	Auditorium	BMA Workshop: Luga Podesta, MD Ultrasound Guided Bone Marrow Aspiration of the PSIS.
12:00 - 1:00	Vendor Hall	Lunch
1:00 - 2:45	Auditorium	BMA Workshop: Luga Podesta, MD
2:45 - 3:00	Vendor Hall	Break
3:00 - 4:00	Auditorium	Demonstration: Ewa Profiruk, Biological Preparation and Validation
4:00 - 5:30	Auditorium	Demonstration: Michael Meng, Leslie Aja RMSKS, Live Model Ultrasound Guided Orthobiologic Injection
5:30	Auditorium	Closing



TRAINER HIGHLIGHTS

Meet Your Instructor Dr. Michael Meng



Dr. Michael Meng DC RMSK ARNP FNP-BC FIAAM came into Musculoskeletal Ultrasound shortly upon graduation from Chiropractic School, in 2003. Dr. Meng has contributed to multiple ultrasound textbooks with subjects ranging from diagnostics, pathologies, and interventions. Overall, he has been involved in the teaching of MSK ultrasound for 15 years and has more than 10 years of experience in regenerative medicine.

Peter Everts, PhD, FRSM

Significance of Orthobiological Formulation



Peter Everts, Chief Scientific Officer, Gulf Coast Biologics, specializes in research and scientific publications in regenerative orthobiologics.

Luga Podesta, MD

Nuances of Treatment Application



Luga Podesta, MD, Director of Regenerative Orthopedics & Sports Medicine Bluetail Medical Group-Naples, specializes in advanced non-surgical cell based orthobiologic and image guided treatments.

Live Demonstrations

Live product demonstration consisting of preparation and validation of Platelet-Rich Plasma (PRP) biologic formulation. Live patient demonstration of ultrasound guided injection procedure.



Ewa Profiruk
Clinical Support Specialist



Leslie Aja, RDMS, RVT, RMSKS
Clinical Ultrasound Educator

Montefiore Einstein

