



Introduction to Musculoskeletal Ultrasound with Interventional Cadaver Lab

August 19 – 21, 2024

Includes Pre-Course Online Video: “MSK Ultrasound Imaging Fundamentals” by Lori Green, BA, RDMS, RDCS, RVT. Login to your account at GCUS.com and navigate to “My Activities” to complete **prior** to this course.

Monday, August 19, 2024		
7:25	Welcome and Continental Breakfast	
7:35	Interactive Polling Session	
7:40	Shoulder Anatomy & Scanning Techniques	Steven Soliman, DO, RMSK
8:25	Break	
8:35	Live Demo: US Evaluation of the Shoulder	Steven Soliman, DO, RMSK
8:55	Break-Out Groups	
9:00	Group A – Scan Lab	Group B – Main Lecture Room
	Hands-On Scanning: Shoulder	Ultrasound Evaluation of Shoulder Pathology Jon Jacobson, MD, RMSK
10:15	Group Change	
10:25	Group A – Main Lecture Room	Group B – Scan Lab
	Ultrasound Eval of Shoulder Pathology Jon Jacobson, MD, RMSK	Hands-On Scanning: Shoulder
11:40	All Groups Return to Main Lecture Room	
11:45	Elbow Anatomy & Scan Techniques	Paul Lento, MD, RMSK, CAQSM
12:20	Lunch	
1:20	Live Demo: US Evaluation of the Elbow	Paul Lento, MD, RMSK, CAQSM
1:50	Ultrasound Evaluation of Elbow Pathology	Jon Jacobson, MD, RMSK
2:30	Break-Out Groups	
2:40	Group A – Main Lecture Room	Group B – Scan Lab
	Ultrasound Guided Injection Techniques Jon Jacobson, MD, RMSK	Hands-On Scanning: Elbow
3:45	Group Change	
3:55	Group A – Scan Lab	Group B – Main Lecture Room
	Hands-On Scanning: Elbow	Ultrasound Guided Injection Techniques Jon Jacobson, MD, RMSK
5:00	Adjourn	



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Tuesday, August 20, 2024		
7:25	Continental Breakfast	
7:40	Wrist & Hand Anatomy, Scan Techniques	Ralf Thiele, MD, RhMSUS
8:15	Live Demo: US Evaluation of the Wrist & Hand	
8:35	Break-Out Groups	
8:40	Group A – Main Lecture Room	Group B – Scan Lab
	Ultrasound Evaluation of W/H Pathology Jon Jacobson, MD, RMSK	Hands-On Scanning: Wrist & Hand
9:55	Group Change	
10:00	Group A – Scan Lab	Group B – Main Lecture Room
	Hands-On Scanning: Wrist & Hand	Ultrasound Evaluation of W/H Pathology Jon Jacobson, MD, RMSK
11:15	All Groups Return to Main Lecture Room	
11:20	Ultrasound Evaluation of the Ankle & Foot	Paul Lento, MD, RMSK, CAQSM
12:00	Adjourn for Lunch	
12:15	Optional Lunch Lecture: Use of US in Rheumatology Applications	Ralf Thiele, MD, RhMSUS
1:10	Break-Out Groups	
1:15	Group A – Scan Lab	Group B – Main Lecture Room
	Hands-On Scanning: Ankle/Foot	US Evaluation of Ankle & Foot Pathology with Live Demo Paul Lento, MD, RMSK, CAQSM
2:25	Group Change	
2:30	Group A – Main Lecture Room	Group B – Scan Lab
	US Evaluation of Ankle & Foot Pathology with Live Demo Paul Lento, MD, RMSK, CAQSM	Hands-On Scanning: Ankle/Foot
3:40	All Groups Return to Main Lecture Room	
3:45	Ultrasound Evaluation of the Hip & Live Demo	Jon Jacobson, MD, RMSK
5:00	Adjourn	

Wednesday, August 21, 2024		
7:30	Continental Breakfast	
7:45	US Evaluation of the Knee: Normal Anatomy & Scanning Techniques	Kevin O'Donnell, DO
8:25	Interactive Post-polling Session	All Faculty
8:45	Break & Split Groups	
9:00	Group A – Scan Lab	Group B – Main Lecture Room
	Hands-On Scanning: Knee & Hip	Knee Pathology & Live Demo Kevin O'Donnell, DO
10:15	Group Change	
10:30	Group A – Main Lecture Room	Group B – Scan Lab
	Knee Pathology & Live Demo Kevin O'Donnell, DO	Hands-On Scanning: Knee & Hip
11:45	Lunch – Provided for all Cadaver Lab Participants	
12:15	All Participants Gown for Cadaver Lab	
12:30	Interventional Cadaver Lab: Upper & Lower Extremity Injection Techniques	
4:45	Adjourn	

This is a tentative course itinerary. Lecture faculty/times/dates may be subject to change. Times listed are Eastern Time (ET). ***Cadaver Lab requires advanced registration**



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The Gulfcoast Ultrasound Institute is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

The Gulfcoast Ultrasound Institute designates this live educational activity for a maximum of 24.0 *AMA PRA Category 1 Credits™*. Physicians should claim only the credit commensurate with the extent of their participation in the educational activity.

The Gulfcoast Ultrasound Institute designates an additional 1.5 *AMA PRA Category 1 Credits™* for the enduring educational activity "MSK Ultrasound Imaging Fundamentals". Physicians should claim only credit commensurate with the extent of their participation in the educational activity.

Successful completion of this CME activity, which includes participation in the evaluation component, enables the participant to earn up to 24.0 Medical Knowledge MOC points in the American Board of Internal Medicine's (ABIM) Maintenance of Certification (MOC) program. It is the CME activity provider's responsibility to submit participant completion information to ACCME for the purpose of granting ABIM MOC credit.

This course also meets CME / CEU requirements for ARDMS. Note: While offering the CME credit hours noted above, activities are not intended to provide extensive training or certification for exam performance or interpretation.

NEEDS STATEMENT:

The planning committee has determined a need for the following educational activity based on request from the medical community, expanded utilization of ultrasound, and lab accreditation requirements.

COURSE OBJECTIVES:

At the completion of the program the participant should be able to:

1. Increase the participant's knowledge to better perform and/or interpret MSK ultrasound examinations.
2. Increase confidence to incorporate protocols, techniques and interpretation criteria to improve diagnostic/treatment accuracy.
3. List the indications, benefits, and limitations of MSK ultrasound for sports medicine injuries, physical medicine & rehabilitation, and rheumatology applications.
4. Demonstrate proper transducer manipulation and system optimization to produce diagnostic images.
5. Demonstrate scanning protocols for performing shoulder, elbow, wrist/hand, knee, ankle/foot, & hip ultrasound examinations.
6. Identify normal anatomy during musculoskeletal ultrasound imaging.
7. Identify the sonographic appearance of commonly seen pathology of the shoulder, knee, elbow, wrist/hand, ankle, and foot.
8. Demonstrate the use of MSK sonography for diagnosis and ultrasound-guided interventions and describe "in-plane" and "out of plane" injections/aspiration techniques using inanimate phantoms.
9. Identify the sonographic anatomy during the performance of ultrasound guided MSK injections on cadaver models.

While offering CME credits this activity is not intended to provide extensive training or certification for performing or interpreting musculoskeletal examinations. We recommend working under supervised conditions until an accepted level of proficiency has been achieved.

A special thanks to the following commercial companies who provide various (in kind) support to help make our programs possible (companies listed are as of the time of printing).



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Disclosure of Relevant Financial Relationships With Commercial Companies/Organizations

Gulfcoast Ultrasound Institute, Inc. endorses the standards and essentials of the Accreditation Council for Continuing Medical Education for activities and the speakers at these activities disclose significant relationships with commercial companies.

Speakers having relevant relationships include receiving from a commercial company research grants, consultancies, honoraria and travel, or having a self-managed equity interest in a company.

LECTURING FACULTY:

Jon Jacobson, MD, RMSK

Professor of Radiology
University of California, San Diego
Musculoskeletal Radiologist
Lenox Hill Radiology
New York, NY

No relevant financial relationships to disclose

Kevin O'Donnell, DO

Sports and Regenerative Medicine Physician
Breakthrough Regenerative Orthopedics
Centennial, Colorado

No relevant financial relationships to disclose

Paul Lento, MD, RMSK, CAQSM

Sarasota Orthopedic Associates
Sarasota, Florida

No relevant financial relationships to disclose

Steven Soliman, DO, RMSK

Clinical Associate Professor
Musculoskeletal Radiologist
University of Michigan
Ann Arbor, MI

No relevant financial relationships to disclose

Ralf Thiele, MD, RhMSUS

University of Rochester
Department of Medicine
Division of Allergy/Immunology and
Rheumatology
Rochester, NY

No relevant financial relationships to disclose

All presentations for this CME activity were reviewed and approved by member(s) of the GUI staff to determine content validity and ensure that no conflicts of interest exist prior to final course material compilation and printing



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Disclosure of Individuals in Control of Content

In addition to the faculty listed on the previous page the following individuals are recognized by GUI as being in control of content of this program:

James Mateer, MD, RDMS (Medical Director-planner & QI Task Force)

Medical Director, Gulfcoast Ultrasound Institute
Milwaukee, WI

No relevant financial relationships to disclose

Charlotte Derr, MD, RDMS, FACEP, FPD-AEMUS (Co-Medical Director-planner & QI Task Force)

Associate Professor of Emergency Medicine
Fellowship Director of Advanced Emergency Medicine Ultrasound Fellowship Program
University of South Florida Morsani College of Medicine
Tampa, FL

No relevant financial relationships to disclose

Andreas Dewitz, MD, RDMS (Member of Advisory Board & QI Task Force Subcommittee)

Clinical Professor of Emergency Medicine
Clinical Director of POCUS Education, Solomont Simulation Center
Department of Emergency Medicine
Boston Medical Center
Boston, MA

No relevant financial relationships to disclose

Lori Green, BA, RDMS, RDCS, RVT (Program Director-planner, Content Reviewer, QI Task Force)

Gulfcoast Ultrasound Institute, Inc.
St. Petersburg, FL

No relevant financial relationships to disclose

Trisha Reo, AAS, RDMS, RVT (Program Coordinator-planner, Content Reviewer, QI Task Force)

Gulfcoast Ultrasound Institute, Inc.
St. Petersburg, FL

No relevant financial relationships to disclose

HANDS-ON INSTRUCTORS:

At the time of printing **all hands-on instructors for this program have signed disclosure forms and have no relevant financial relationships to disclose.** A verbal disclosure will be made during opening remarks. All scanning sessions are monitored by the program director and/or the program manager to ensure education objectives are met and no commercial bias occurs.

Content:

All content for this CME activity were reviewed and approved by member(s) of the GUI staff to determine content validity and ensure that no conflicts of interest exist prior to final course material compilation and printing.

Reviewed & approved:

Lori Green BA, RDMS, RDCS, RVT

Trisha Reo AAS, RDMS, RVT



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Welcome!!

The entire staff at Gulfoast Ultrasound Institute would like to welcome you to our educational facility.

Our goal is to provide the highest quality continuing education possible in a relaxed and personal atmosphere. The content of each program has been carefully planned to provide you with the information needed to obtain a firm foundation to begin gaining the experience to perform and/or interpret ultrasound examinations in the specialty of your choice. The program will be structured with lectures in the morning and hands-on sessions during the afternoon to allow more individualized attention the program participants will be divided into groups for the hands-on workshops based on your experience level and type of equipment you work with.

To help you get the most out of this program we would like to make the following recommendations:

1. Attend the lectures and scheduled hands-on sessions.
2. When you are not involved in a scheduled afternoon session, take advantage of the SUPPLEMENTAL SCANNING WORKSHOP or check out a DVD from our library.
3. If you do not understand a particular concept ASK FOR HELP!
4. Study your course workbook during the evening.
5. Remember excellence is not achieved overnight. Becoming proficient in any ultrasound specialty requires the commitment to continually study, and perform multiple (at least 100) exams before an initial level of confidence is achieved. The AIUM guidelines suggest competency for interpretation requires a minimum of 500 exams per specialty.
6. Begin scanning immediately upon return to the ultrasound departments even if it's on a volunteer. We recommend scanning/interpretations under supervised conditions until an accepted level of proficiency has been obtained.

All of our instructors, guest speakers and office staff are here to serve you! If you have any questions of any kind, please do not hesitate to ask.



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Gulfcoast Ultrasound Institute **EQUIPMENT RECOMMENDATIONS**

Since 1985, Gulfcoast Ultrasound Institute has taken great pride in our ability to provide quality continuing education programs while remaining unbiased regarding the recommendation of ultrasound equipment.

Our programs are supported by most of the major equipment manufactures by providing their systems for use during the hands-on sessions. These companies have learned their products will be used and demonstrated to the best of our abilities in an educational setting and that no selling or promotion is done on our premises.

We realize that some of the course participants may currently be in the process of evaluating equipment for purchase and would like the opinions of our staff to determine the “best” system for your department. Everyone has a “favorite” ultrasound system (usually because it is the one they have worked with the most and are comfortable with) however, Gulfcoast Ultrasound must take an unbiased position in regards to equipment recommendations.

If you are currently evaluating equipment for purchase we suggest you invite the equipment manufacturers to your facility for a private demonstration to determine image quality, ease of use, over-all capabilities etc. on an individual basis.

Thank you!

Lori Green BA, RDMS, RDCS, RVT

Lori Green, BA, RDMS, RDCS, RVT
Program Director