Musculoskeletal Ultrasound: The Basics with Interventional Cadaver Lab

January 25 - 27, 2027

IMPORTANT!! This course includes the following pre-course online videos:
"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 this **prior** to this course.

Monday, January 25, 2027		
7:25	**Welcome and Continental Breakfast**	
7:35	**Interactive Polling Session**	
7:45	**Shoulder Anatomy & Scanning Techniques**	**Kevin O'Donnell, DO**
8:35	**Live Demo: US Evaluation of the Shoulder**	
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 – Lunch Announcements**	
11:45	**Lunch On Your Own**	
12:45	**Elbow Anatomy & Scan Techniques**	**David Wang, DO**
1:20	**Live Demo: US Evaluation of the Elbow**	
1:40	**Break**	
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, January 26, 2027		
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	David Wang, DO
12:00	Live Demo: US Evaluation of the Ankle & Foot	
12:15	Adjourn for Lunch	
12:30	Bonus Session: Use of US in Rheumatology Applications (Lunch Provided)	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 Jon Jacobson, MD, RMSK
2:25	Group Change	
2:30	Group A – Main Lecture Room	Group B – Scan Lab
	US Evaluation of Ankle & Foot Pathology Jon Jacobson, MD, RMSK	Hands-On Scanning: Ankle/Foot
3:40	All Groups Return to Main Lecture Room	
3:45	US Evaluation of the Knee: Normal Anatomy & Scanning Techniques	Kevin O'Donnell, DO
4:40	Live Demo: US Evaluation of the Knee	
5:00	Adjourn	

Wednesday, January 27, 2027		
7:30	Continental Breakfast	
7:35	Ultrasound Evaluation of the Hip & Hip Pathology with Live Demo	Jon Jacobson, MD, RMSK
8:45	Break & Split Groups	
	Group A – Scan Lab	Group B – Main Lecture Room
8:50	Hands-On Scanning: Hip	Ultrasound Evaluation of Knee Pathology Kevin O'Donnell, DO
9:20	Hands-On Scanning: Knee	
10:10	Group Change	
	Group A – Main Lecture Room	Group B – Scan Lab
10:20	Ultrasound Evaluation of Knee Pathology Kevin O'Donnell, DO	Hands-On Scanning: Hip
10:50		Hands-On Scanning: Knee
11:40	All Participants & Faculty Return to Main Lecture Room	
11:45	Interactive Post-Polling Session with Q&A	
12:00	Lunch – Provided for all Cadaver Lab Participants	
12:50	All Participants Gown for Cadaver Lab	
1:00	Interventional Cadaver Lab*: Upper & Lower Extremity Interventional Techniques	
5:00	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. List the indications, benefits, and limitations of MSK ultrasound for sports medicine injuries, physical medicine & rehabilitation, and rheumatology applications.
3. Demonstrate proper transducer manipulation and system optimization to produce diagnostic images.
4. Demonstrate scanning protocols for performing shoulder, elbow, wrist/hand, knee, ankle/foot and hip ultrasound examinations.
5. Identify normal anatomy during musculoskeletal ultrasound imaging.
6. Identify the sonographic appearance of commonly seen pathology of the shoulder, knee, elbow, wrist/ hand, ankle and foot.
7. Demonstrate the use of MSK sonography for diagnosis and ultrasound-guided interventions and describe "in-plane" and "out of plane" injection/aspiration techniques using inanimate phantoms.
8. Increase confidence to incorporate protocols, techniques and interpretation criteria to improve diagnostic/treatment accuracy.
9. Identify the sonographic anatomy during the performance of ultrasound-guided MSK injections on cadaver models.
10. Demonstrate the principles of imaging techniques for the performance of upper and lower extremity 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 Presence/Absence of Relevant Financial Relationships with Ineligible Companies for Individuals in Control of Content

Gulfcoast Ultrasound Institute, Inc. endorses the Standards for Integrity and Independence in Accredited Continuing Education of the Accreditation Council for Continuing Medical Education (ACCME) for all activities. All individuals in control of content are required to disclose any financial relationships with ACCME defined ineligible companies, regardless of the amount. Full disclosure of the presence or absence of relevant financial relationships with ineligible companies is outlined in the course materials and will be verbally disclosed to all learners during opening remarks.

LECTURING FACULTY:

Jon Jacobson, MD, RMSK
(GUI QI Task Force Subcommittee)
Clinical Professor of Radiology
University of Michigan
Ann Arbor, MI
No relevant financial relationships to disclose

Kevin O'Donnell, DO
Sports and Regenerative Medicine Physician
Breakthrough Regenerative Orthopedics
Centennial, CO
No relevant financial relationships to disclose

David Wang, DO
Virtuosity Physical Medicine
Founder & Owner
McLean, VA
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

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Disclosure of Presence/Absence of Relevant Financial Relationships with Ineligible Companies for 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)
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)
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St. Petersburg, FL
No relevant financial relationships to disclose

Mark Swanson, RDMS, RVT (Senior Clinical Instructor/Product Specialist-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 Program Coordinator 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 commercial bias exists prior to final course material compilation and printing

Reviewed & approved:
Lori Green BA, RDMS, RDCS, RVT
Trisha Reo AAS, RDMS, RVT
Mark Swanson, RDMS, RVT

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Welcome!!

The entire staff at Gulfcoast 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