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| Monday, August 12, 2019 |
| **7:25** | **Welcome and Continental Breakfast** |
| **7:35** | **Interactive Polling Session** |
| **7:40** | **Shoulder Anatomy & Scanning Techniques** | **Craig Chappell, DO, RMSK** |
| **8:25** | **Break** |
| **8:35** | **Live Demo: US Evaluation of the Shoulder** | **Craig Chappell, DO, RMSK** |
| **8:55** | **Break-Out Groups** |
|  | **Group A** | **Group B** |
| **9:00** | **Hands-On Scanning: Shoulder** | **Ultrasound Evaluation of Shoulder Pathology****Jon Jacobson, MD, RMSK** |
| **10:15** | **Group Change** |
| **10:25** | **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** |
| **12:20** | **Lunch** |
| **1:20** | **Live Demo: US Evaluation of the Elbow** | **Paul Lento, MD** |
| **1:50** | **Ultrasound Evaluation of Elbow Pathology** | **Jon Jacobson, MD, RMSK** |
| **2:30** | **Break-Out Groups** |
|  | **Group A** | **Group B** |
| **2:40** | **Ultrasound Guided Injection Techniques****Jon Jacobson, MD, RMSK** | **Hands-On Scanning: Elbow** |
| **3:45** | **Group Change** |
| **3:55** | **Hands-On Scanning: Elbow** | **Ultrasound Guided Injection Techniques****Jon Jacobson, MD, RMSK** |
| **5:00** | **Adjourn** |
| **5:15 – 6:30** | **Optional Welcome Reception: Vendor Night/System Optimization** |

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| Tuesday, August 13, 2019 |
| **7:25** | **Continental Breakfast** |
| **7:40** | **Wrist & Hand Anatomy, Scan Techniques** | **Ralf Thiele, MD, RhMSUS** |
| **8:15** | **Break** |
| **8:25** | **Live Demo: US Evaluation of the Wrist & Hand** | **Ralf Thiele, MD, RhMSUS** |
| **8:50** | **Break-Out Groups** |
|  | **Group A** | **Group B** |
| **9:00** | **Ultrasound Evaluation of W/H Pathology****Jon Jacobson, MD, RMSK** | **Hands-On Scanning: Wrist & Hand** |
| **10:15** | **Group Change** |
| **10:25** | **Hands-On Scanning: Wrist & Hand****Jon Jacobson, MD, RMSK** | **Ultrasound Evaluation of W/H Pathology****Jon Jacobson, MD, RMSK** |
| **11:40** | **All Groups Return to Main Lecture Room** |
| **11:50** | **Ultrasound Evaluation of the Ankle & Foot** | **Shane Shapiro, MD, RMSK** |
| **12:40** | **Optional Lunch Lecture: Use of Ultrasound in Rheumatology Applications by Ralf Thiele, MD, RhMSUS** |
| **1:30** | **Ultrasound Evaluation of Ankle/Foot Pathology** | **Shane Shapiro, MD, RMSK** |
| **2:20** | **Break-Out Groups** |
|  | **Group A** | **Group B** |
| **2:25** | **Hands-On Scanning: Ankle/Foot** | **Ultrasound Evaluation of the Hip** **& Live Demo****Jon Jacobson, MD, RMSK** |
| **3:40** | **Group Change** |
| **3:45** | **Lecture: Ultrasound Evaluation of the Hip** **& Live Demo****Jon Jacobson, MD, RMSK** | **Hands-On Scanning: Ankle/Foot** |
| **5:00** | **Adjourn**  |

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| Wednesday August 14, 2019 |
| **7:30** | **Continental Breakfast** |
| **7:45** | **US Evaluation of the Knee: Normal Anatomy &Scanning Techniques**  | **Timothy J. Mazzola, MD, CAQSM, RMSK** |
| **8:25** | **Interactive Post-test** |
| **8:45** | **Break** |
| **8:55** | **Break-out Groups** |
|  | **Group A** | **Group B** |
| **9:00** | **Hands-On Scanning: Knee & Hip** | **Knee Pathology & Live Demo****Timothy J. Mazzola, MD, CAQSM, RMSK** |
| **10:15** | **Group Change** |
| **10:30** | **Knee Pathology & Live Demo****Timothy J. Mazzola, MD, CAQSM, RMSK** | **Hands-On Scanning: Knee & Hip** |
| **11:45** | **Lunch/Adjourn for Non-Cadaver Lab Participants** |
| **12:30** | **Cadaver Lab: Upper Extremity Injection Techniques Rotation 1** |
| **2:30** | **Break: Station Change** |
| **2:45** | **Cadaver Lab: Lower Extremity Injection Techniques Rotation 2** |
| **4:45** | **Adjourn** |

Includes Pre-Course Online Video: **MSK Imaging Fundamentals & Tissue Characterization**

**\*Cadaver lab requires advanced registration**

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| Thursday, August 15, 2109 |
| **7:30** | **Welcome and Continental Breakfast** |
| **7:40** | **Interactive Polling Session** |
|  **7:50** | **Post-Op Shoulder, Knee & Beyond** | **Timothy J. Mazzola, MD, CAQSM, RMSK** |
| **8:30** | **Break** |
| **8:50** | **Advanced Musculoskeletal Ultrasound- Guided Procedures in Rehabilitative Medicine: What, When, Why, Where** |  **David Wang, DO** |
| **9:45** | **Break** |
| **9:55** | **Prolotherapy: General Principles/Practical Applications** | **David Wang, DO** |
| **10:55** | **5 minute stretch Break** |
| **11:00** | **PRP: General Principles/Practical Applications** | **Craig Chappell, DO** |
| **11:45** | **Lunch (provided for regen med track participants)** |
| **12:00** | **Lunch Lecture: Bone Marrow and Lipoaspirate: General****Principles/Practical Applications ((regen track only) TBD** |
| **12:45** | **Break Out Groups** |
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| **1:00** | **HANDS-ON SCANNING:****Interventional Cadaver Lab*** **UE & LE injection techniques**
* **Bone Marrow/Lipoaspirate**
 | **All Faculty** |
| **2:20** | **Break** |
| **2:30** | **HANDS-ON SCANNING:** **Interventional Cadaver Lab*** **UE & LE injection techniques**

**Bone Marrow/Lipoaspirate** | **All Faculty** |
| **5:10** | **Adjourn** |
| Friday, August 16, 2019 |
| **7:30** | **Continental Breakfast** |
| **7:45** | **Ultrasound Evaluation of the Spine:*** **Ultrasound anatomy and scan techniques**
* **Treatment and interventional techniques**
 | **David Wang, DO**  |
| **8:30** | **Break** |  |
| **8:45** | **Advanced Peripheral Nerve Applications: Diagnosis & Treatment Options** | **Jeffrey Strakowski, MD** |
| **9:30** | **Stretch break**  |
| **9:35** | **Hands-On Scanning Live Models: Nerve & spine** | **All Faculty** |
| **11:00** | **Unlocking Frozen Joints** | **Timothy J. Mazzola, MD, CAQSM, RMSK** |
| **11:45** | **Post Polling session** |
| **12:00** | **Lunch (provided)** |
| **12:15** | **Lunch Lecture: Regen Med Regulatory Guidelines TBD** |
|  |  |  |
| **1:00** | **Live Patient Regenerative Medicine Procedures** | **Craig Chappell, DO, RMSK** |
| **4:30** | **Adjourn** |

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

**Introduction to Musculoskeletal Ultrasound with Optional Cadaver Workshop**

The Gulfcoast Ultrasound Institute designates this live activity for a maximum of 23.5 *AMA PRA Category 1 Credit(s)™*. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Successful completion of this CME activity enables the participant to earn up to 23.5 MOC points in the American Board of Internal Medicine’s (ABIM) Maintenance of Certification (MOC) program. Participants will earn MOC points equivalent to the amount of CME credits claimed for the activity. 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.

**Advanced/ Musculoskeletal and Regenerative Medicine Ultrasound**

The Gulfcoast Ultrasound Institute designates this live activity for a maximum of 16.0 *AMA PRA Category 1 Credit(s)™*. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Successful completion of this CME activity enables the participant to earn up to 16.0 MOC points in the American Board of Internal Medicine’s (ABIM) Maintenance of Certification (MOC) program. Participants will earn MOC points equivalent to the amount of CME credits claimed for the activity. 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.

**MSK Imaging Fundamentals and Tissue Characterization - Online Pre-Course Video Lecture**

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 an additional 1*.*0 *AMA PRA Category 1 Credits™*for the enduring educational activity “MSK Imaging Fundamentals”***.*** Physicians should claim only credit commensurate with the extent of their participation in the educational activity.

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 & hip ultrasound examinations.
5. Identify the sonographic appearance of normal MSK anatomy and commonly seen pathology of the shoulder, knee, elbow, wrist/ hand, ankle and foot.
6. 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 (Intro)and cadaveric specimens (Advanced/Regenerative Medicine).
7. Interpret complex musculoskeletal ultrasound images and list treatment options and patient management strategies.
8. List the role of ultrasound in the evaluation of the post-operative shoulder.
9. State the role of ultrasound in nerve entrapment syndromes.
10. Outline the biology and evidence for use of various regenerative substances.
11. State when, why, and how to integrate regenerative medicine as a practical treatment option.
12. Prepare regenerative substances for performing ultrasound-guided procedures
13. Outline post procedural protocols for regenerative procedures

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 ultrasound equipment manufacturers who provide various (in kind) equipment support to help make our programs possible (companies listed are as of the time of printing).*

**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 (GUI QI Task Force Subcommittee)**

Professor of Radiology

Director, Div. of Musculoskeletal Radiology

University of Michigan Medical Center

Ann Arbor, MI

***No relevant financial relationships to disclose***

**Craig Chappell, DO, CAQSM, RMSK (GUI QI Task Force Subcommittee)**

IN2IT Medical Non-Surgical Ortho & Sports Medicine,
Orem, UT

***No relevant financial relationships to disclose***

**Paul Lento, MD, RMSK**

Sarasota Orthopedic Associates

Sarasota, FL

***No relevant financial relationships to disclose***

**Jeffrey Strakowski, MD (GUI QI Task Force Subcommittee)**

Physical Medicine Associates, Inc

Columbus, OH

***No relevant financial relationships to disclose***

***David Wang, DO***

Regenerative Orthopedics and Sports Medicine

Director of Training and Education

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***No relevant financial relationships to disclose***

**Ralf Thiele, MD, RhMSUS (GUI QI Task Force Subcommittee)**

University of Rochester

Department of Medicine

Division of Allergy/Immunology and Rheumatology

Rochester, NY

***No relevant financial relationships to disclose***

**Shane Shapiro, MD, RMSK (GUI QI Task Force Subcommittee)**

Assistant Professor of Orthopedic Surgery

Instructor- Family Medicine

Mayo Clinic College of Medicine

Department of Orthopedic Surgery & Sports Medicine

Jacksonville, FL

***No relevant financial relationships to disclose***

**Timothy J. Mazzola, MD, CAQSM, RMSK (GUI QI Task Force Subcommittee)**

Regenerative Orthopedics and Sports Medicine

Boulder, Colorado

***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***

**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 (Co-Medical Director-planner & QI Task Force)**

Assistant Professor of Emergency Medicine &

Fellowship Director of Emergency Medicine

Ultrasound Fellowship Program

University of South Florida Medical School

Tampa, FL

***No relevant financial relationships to disclose***

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

Associate Professor of Emergency Medicine

Vice Chair of Ultrasound Education

Boston Medical Center

Boston, MA

***No relevant financial relationships to disclose***

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

Gulfcoast Ultrasound Institute, Inc.

St. Petersburg, FL

***No relevant financial relationships to disclose***

**Brian Schenker, MBA, RDMS, RVT (Program Coordinator–planner, Content Reviewer, QI Task Force)**

Gulfcoast Ultrasound Institute, Inc.

St. Petersburg, FL

***No relevant financial relationships to disclose***

**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, RT, RDMS, RDCS, RVT



**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.

***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.

***Gulfcoast Ultrasound Institute***

**EQUIPMENT RECOMMENDATIONS**

Throughout the past 34 years 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, RT, RDMS, RDCS, RVT

Lori Green, BA, RT, RDMS, RDCS, RVT

Program Director