WHAT GULFCOAST OFFERS:

**GCUS OFFERS CME ACTIVITIES FOR ALL SPECIALTIES & ALL LEVELS OF EXPERIENCE**

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<td>~ Transcranial Doppler</td>
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**BLEND EDUCATION:** *(The Most Flexible Comprehensive Ultrasound Education Available.)*

- Complete a Comprehensive Online Course + Attend a Hands-On Scanning Skills Workshop.
- Available for All Specialties
- Regularly Scheduled Blended Courses or Private Courses Available
- 15 Months Unlimited Access to Online Course Material

**CUSTOM PROGRAMS:** *(For Groups or Individuals: All Specialties.)*

- ONSITE AT YOUR FACILITY
- CORPORATE TRAINING PROGRAMS
- PRIVATE HANDS-ON
- LIVE LECTURES OR BLENDED

**LEADING PROVIDER OF SELF-DIRECTED EDUCATIONAL PRODUCTS**

We offer a full line of self-directed accredited educational products offering CME credit for all levels of learners including:

- REGISTRY PREPARATION
  - Live & Online Courses
  - Workbooks (Print and Digital)
  - Flashcards (Print and Digital)
  - Online Mock Exams (Site License Available)
- TRAINING VIDEOS (All Specialties.)
  > 400+ DVDs & Online Videos
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- COMPREHENSIVE ONLINE COURSES
- ULTRASOUND ACCESSORIES/BOOKS
- EDUCATOR & MILITARY DISCOUNTS
- CME VITALS *(Quick, Affordable, Online)*

**OUTSTANDING PERFORMANCE**

- Quality education provider since 1985
- Over 160,000 medical professionals have received education through Gulfcost Ultrasound Institute
- 99% + satisfaction for meeting or exceeding educational objectives
- ACCME accredited provider of AMA PRA Category 1 credit(s)™
- Lowest participant/faculty ratio in the industry for hands-on scanning
- ABIM MOC, ACEP, & AANA CME Credits also available for select programs
- Nationally recognized expert speakers in ultrasound
- All hands-on instructors are clinically active & registered
- Site Licence Educator Program

**INNOVATORS IN ADVANCED TECHNOLOGY**

- All specialties offer comprehensive online courses enabling access to material & CME from anywhere, anytime, on any device.
- HD broadcasting/recording of programs allow those unable to travel, the ability to obtain their education from anywhere.
- All DVDs & Mock Exams are available in online format
- Corporate Video Production Services

TO REGISTER OR TO PURCHASE PRODUCTS | 727.363.4500 | WWW.GCUS.COM
Dear Colleague,

Over the past 35 years of teaching medical professionals, we have learned that it takes more than one or two individuals to build a successful and respected educational program. We have been very fortunate in being able to attract and utilize the skills, experience, and knowledge of hundreds of internationally-respected experts to help present the state-of-the-art programs for which we at Gulfcoast Ultrasound Institute are known for. Our efforts in 2020 will continue to address the core ultrasound applications, along with point of care, registry preparation, and advanced level educational needs. More programs have been added to include regenerative medicine, ultrasound-guided anesthesia, and specialty specific scan only workshops.

We recognize the challenges involved with maintaining proficiency and learning new skills to effectively work in this dynamic profession. As such, we have the ability to offer multiple education options to reach your goals in a timely and cost-effective manner. These alternatives include a full line of self-directed education products such as comprehensive online interactive courses, DVDs, workbooks, and complete registry preparation packages. For those with time and/or cost constraints, combining an online course or video package with a scan only workshop provides the perfect blended education experience.

Another area of focus is our custom onsite education. With over 35 years of experience, we know what it takes to deliver high-quality programs from both educational and logistical standpoints. Programs can be offered at your facility, or if you prefer, at our state-of-the-art 8,600 sq. ft campus. Additionally, we have a mobile friendly website to allow users to easily enroll in programs, and complete CME products with any device. We will also continue with the HELP Program, which offers discounted teaching materials to medical schools and colleges, as well as our GDA Advantage Contract that offers federal employee tuition support to those employed by the US Government, and GoArmyEd for civilian contractors.

From introductory level cross-training, to advanced techniques, registry preparation, and (ab accreditation requirements, you can trust Gulfcoast Ultrasound Institute to continue to provide the highest quality education in 2020 and beyond. We hope to see you expand your ultrasound skills with Gulfcoast Ultrasound Institute very soon.

Sincerely,

Lori Green

Lori Green, President / Program Director
ADULT ECHOCARDIOGRAPHY CME

“MY UNDERSTANDING OF ECHO AND THE MODES FOR INFO GATHERING WAS GREATLY EXCEEDED. THE STAFF MADE A FRIENDLY ENVIRONMENT THAT WAS OPEN TO QUESTIONS.”

BRAD GALLEGOS, BA, RT

“I REALLY ENJOYED MY TIME AT THE COURSE. VERY INSTRUCTIVE AND HELPFUL STAFF. I HOPE TO RETURN FOR MORE COURSES. THANKS.”

JOHN McGIVOR, M.D.

“VERY INFORMATIVE WITH FANTASTIC INSTRUCTORS. I WOULD HIGHLY RECOMMEND YOUR COURSES TO FUTURE TECHNICIANS AND PHYSICIANS ALIKE. VERY PLEASED.”

KELLY D. LEWIS, BA, RRT, RCS

GULFCOAST ULTRASOUND INSTITUTE  CONFIDENCE, COMPETENCE, PROVEN RESULTS

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LIVE & VIRTUAL ECHO COURSE
(LIVE LECTURES + HANDS-ON FOR LIVE ATTENDEES)

INTRODUCTION TO ADULT ECHOCARDIOGRAPHY

April 25-29, 2022
December 5-9, 2022

ECD-221
ECD-222

COURSE OBJECTIVES: Upon completion of the program, the participant should be able to:

1. Increase the participant’s knowledge to better perform and/or interpret Echocardiography examinations.
2. Demonstrate proper transducer manipulation and system optimization to produce diagnostic images (Sonographer) and recognize potential imaging errors (Physician).
3. Demonstrate routine scan protocols to evaluate an adult patient using 2D/M-Mode/Color Flow and Doppler echocardiographic techniques.
4. Perform standard 2D, M-Mode and Doppler measurements.
5. Identify normal/abnormal characteristics of 2D Cardiac anatomy.
6. State the role of cardiac Doppler and list the necessary qualitative/quantitative measurements.
7. Identify the ultrasound findings associated with valvular heart disease, cardiomyopathies, ischemic heart disease, pericardial disease and cardiac masses.
8. List the latest imaging techniques in quantification of right and left ventricular wall motion. Document findings and apply standardized guidelines during compilation of an Echocardiography worksheet (Sonographer) and dictated report (Physician).
9. List the steps necessary for system optimization during contrast echo imaging.
10. Increase confidence to incorporate protocols, techniques and interpretation criteria to improve diagnostic/treatment accuracy.

COURSE FEATURES & TOPICS:

- Imaging & Doppler Fundamentals
- Color, Pulsed & Continuous Wave Doppler
- Anatomy of the Heart and the EKG
- Mitral & Aortic Valves
- 2D Evaluation of Cardiac Anatomy
- Cardiomyopathies
- 2D Measurements & Normal Values
- Doppler Evaluation of MVD/AVD
- Lifetime Access to Digital Course Syllabus
- 270+ Cases Covered
- Right Heart & Coronary Disease
- Diastolic Function/Contrast Echo
- Pericardial Disease & Cardiac Masses
- 3:1 Hands-On Scanning Ratio and Interpretation Workshops on Live Models
- Human Heart Cadaver Lab

WHO SHOULD ATTEND: (St. Petersburg, Florida)
Physicians, sonographers, and other medical professionals learning how to perform and/or interpret echocardiography examinations and prefer live presentations with hands-on scanning.

CME CREDITS & TUITION:

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<th>AMA CAT. I</th>
<th>40.00</th>
<th>ABIM MOC</th>
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<th>VIRTUAL COURSE TUITION</th>
<th>$1575</th>
<th>REGULAR COURSE TUITION</th>
<th>$3180</th>
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This course meets CME/CEU requirements for ARDMS, CCI, APA and ABIM MOC. This Course includes a free pre-course online video: Imaging Fundamentals: The Basics approved for 1.25 AMA PRA Category 1 Credits™. Virtual Course approved for a maximum of 20.00 AMA PRA Category 1 Credits™.

FACULTY:

STEVEN WALLOW, BS, RCS, CSS, FASE
Lead Echocardiographer
Saint Francis Care
Harford, CT

DANIEL BOURQUE, MS, RCS, FASE
Orlando Regional Medical Ctr.
Orlando, FL

DANE DEBACH-SPICER, PA (ASCPC)
UF Dept. of Pediatro Cardiology
Pathologist’s Assistant
Research Assistant
Gainesville, FL

LORI GREEN, PA, ARRT, ARDMS, RCS, RVT
Program Director
Gulfcoast Ultrasound Institute
St. Petersburg, FL.

CHRISTIE HILL JORDAN, BS, RCS, RSS, RCS, FASE
Cardiovascular Technology Program Director.
Florida State College at Jacksonville.
Jacksonville, FL. (July Course Only)

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BLENDED ECHOCARDIOGRAPHY COURSE  (ONLINE COURSE + HANDS-ON)

BLENDED INTRODUCTION TO ADULT ECHOCARDIOGRAPHY  February 17-18, 2022  BECDSO-221

ONLINE COURSE OBJECTIVES: Upon completion of the program, the participant should be able to:

1. Increase the participant's knowledge to better perform and/or interpret Echocardiography examinations.
2. Demonstrate proper transducer manipulation and system optimization to produce diagnostic images (Sonographer) and recognize potential imaging errors (Physician).
3. Demonstrate routine scan protocols to evaluate an adult patient using 2D/M-Mode/Color Flow and Doppler echocardiographic techniques.
4. Perform standard 2D, M-Mode and Doppler measurements.
5. Identify normal/abnormal characteristics of 2D Cardiac anatomy.
6. State the role of cardiac Doppler and list the necessary qualitative/quantitative measurements.
7. Identify the ultrasound findings associated with valvular heart disease, cardiomyopathies, ischemic heart disease, pericardial disease and cardiac masses.
8. Increase confidence to incorporate protocols, techniques and interpretation criteria to improve diagnostic/treatment accuracy.
9. List the steps necessary for system optimization during contrast echo imaging.
10. List the latest imaging techniques in quantification of right and left ventricular wall motion. Document findings and apply standardized guidelines during compilation of an Echocardiography worksheet (Sonographer) and dictated report (Physician).

ONLINE COURSE INCLUDES: (15 Months Unlimited Access.)

- Ultrasound Imaging Fundamentals: The Basics
- Mitral & Aortic Heart Disease
- Cardiomyopathies & Diastolic Function
- Intro to 2D/M-Mode Adult Echocardiography
- Stress Echocardiography
- Coronary Artery Disease
- Introduction to Cardiac Doppler
- Right Heart Disease
- Contrast Echocardiography
- Cardiac Hemodynamics
- Pericardial Effusions & Cardiac Masses
- Scan Multiple Live Models Each Day

HANDS-ON WORKSHOP INCLUDES: (St. Petersburg, Florida)

- (2) Full Days Scanning Sessions (No Lectures)
- Log of Exams (Available)
- 3:1 Participant to Instructor Scanning Ratio
- Extensive Personal Attention
- Scan Multiple Live Models Each Day
- Scanning Tips and Tricks from the Experts

WHO SHOULD ATTEND THIS FORMAT:
Physicians, Sonographers and other medical professionals learning how to perform and/or interpret adult echocardiography examinations who prefer a more self-paced comprehensive online course option while still obtaining critical hands-on training.

CME CREDITS & TUITION:

|AMA CATEGORY I ONLINE COURSE| 19.50 |AMA CATEGORY I SCAN WORKSHOP| 12.00 |
|ADVANCED COURSE TUITION| $2980 |REGULAR COURSE TUITION| $3180|

This course meets CME/CEU requirements for ARDMS. Advanced registration payment needs to be paid in full 30 or more days prior to the course start date. There is a $200 late fee if you register 14 days or less of the course start date.

FACULTY:

RICHARD PALMA, BS, RDMS, RCS, ACS, FACE, FSDMS
Director & Clinical Coordinator
Hoffman Heart Institute
School of Cardiac Ultrasound
St. Francis Hospital & Medical Ctr.
Hartford, CT

DANIEL DOURQUE, MS, RCS, FASE
Orlando Regional Medical Ctr.
Orlando, FL

LODI GREEN, BA, RTR, RDMS, RCS, RVT
Program Director
Gulfcoast Ultrasound Institute
St. Petersburg, FL

CHRISTIE HILL-URDAN, BS, RDMS, RCS, RDS, FASE
Cardiovascular Technology Program Director
Florida State College at Jacksonville
Jacksonville, FL

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Echocardiography Ultrasound Products

Intro to Echocardiography | DVD Course Pack $1241

Cardiac Ultrasound Protocol Manual with Online Video Demo
Lori Green, BA, RT(R), RDMS, RDRE, RVT; Christie Jordan, BS, RDMS, RVT, RCE
Including 2D M-Mode & Doppler Echo | $99.95 | 978-1-62653-001-8
Topics: Clinical Indications, 2D & M-Mode Use, and Simpler Doppler Interpretation.

Introduction to 2D/3D Adult Echocardiography (47 mins.)
Christie Jordan, BA, RDMS, RVT; Lori Green, BA, RDMS, RVT, RCE
Video DVD or Online: 2.5 AMA PRA Category 1 Credits™ ISBN 978-1-94573-001-8
Topics: Indications & Sound Fundamentals, Cardiac Anatomy, Electro-Physiology & Ergonomics, M-Mode Characteristics & Scan Demonstrations.

Introduction to Cardiac Doppler/Color Flow Imaging (67 mins.)
Daniel Bourque, MS, RDCS, FASE | 1:39:59 PM 5/6/13
DVD or Online: 2.5 AMA PRA Category 1 Credits™ ISBN 978-1-94573-001-8

Echocardiography Evaluation of Mitral & Aortic Valve Heart Disease (94 mins.)
Richard Palma, BS, RDMS, RVT, FASE, FSDIA | 1:39:59 PM 5/6/13
Video DVD or Online: 3.25 AMA PRA Category 1 Credits™ ISBN 978-1-94573-30-8
Topics: Mitral Valve Anatomy, Mitral Valve Disease, Aortic Valve Anatomy, Aortic Valve Disease, M-Mode Characteristics, Sound of Doppler, Mitral Valve Protrusion, Aortic Valve Disease.

Doppler Evaluation of Mitral & Aortic Valve Heart Disease (130 mins.)
Richard Palma, BS, RDMS, RVT, FASE, FSDIA | 1:39:59 PM 5/6/13
Video DVD or Online: 5.75 AMA PRA Category 1 Credits™ ISBN 978-1-94573-30-8
Topics: Mitral Valve Disease, M-Mode Characteristics, Mitral Valve Protrusion, Doppler Evaluation of Mitral & Aortic Valve Disease, Doppler Evaluation of Mitral & Aortic Valve Disease.

Echocardiographic Evaluation of Right Heart Disease (40 mins.)
Richard Palma, BS, RDMS, RVT, FASE, FSDIA | 1:39:59 PM 5/6/13
Video DVD or Online: 1.0 AMA PRA Category 1 Credits™ ISBN 978-1-94573-30-8
Topics: RV Assessment, Right Systolic Function, RV Diastolic Function, Right Atrium, Tricuspid Valve Disease, Hepatic Venous Evaluation, Pulmonary Valve Disease.

Echocardiographic Evaluation of Pericardial Effusions & Cardiac Masses (45 mins.)
Richard Palma, BS, RDMS, RVT, FASE, FSDIA | 1:39:59 PM 5/6/13
Video DVD or Online: 1.0 AMA PRA Category 1 Credits™ ISBN 978-1-94573-30-8
Topics: Pericardial Effusion, Cardiac Masses, Impact of Pericardial Effusion on Cardiac Function, Impact of Cardiac Masses on Cardiac Function.

Cardiac Hemodynamics (40 mins.)
Richard Palma, BS, RDMS, RVT, FASE, FSDIA | 1:39:59 PM 5/6/13
Video DVD or Online: 1.0 AMA PRA Category 1 Credits™ ISBN 978-1-94573-30-8
Topics: Cardiac Hemodynamics, Assessment of Cardiac Hemodynamics, Calculation of Hemodynamic Parameters, Case Studies.

Ultrasound Imaging Fundamentals: The Basics (65 mins.)
Lori Green, BA, RT(R), RDMS, RVT, RCE | 1:39:59 PM 5/6/13
Video DVD or Online: 1.25 AMA PRA Category 1 Credits™ ISBN 978-1-94573-30-8

Echocardiographic Evaluation of Diastolic Function (48 mins.)
Richard Palma, BS, RDMS, RVT, FASE, FSDIA | 1:39:59 PM 5/6/13
Video DVD or Online: 1.5 AMA PRA Category 1 Credits™ ISBN 978-1-94573-30-8
Topics: LV Diastolic Function, Doppler Acquisition During Valsalva Maneuver, Measurement of Mitral Valve Opening, Mitral Valve Echocardiographic Assessment, Mitral Valve Doppler Characteristics.

Echocardiographic Evaluation of Coronary Artery Disease (45 mins.)
Richard Palma, BS, RDMS, RVT, FASE, FSDIA | 1:39:59 PM 5/6/13
Video DVD or Online: 1.5 AMA PRA Category 1 Credits™ ISBN 978-1-94573-30-8
Topics: CAD & LV Function, Prevalence of CAD, Perfusion Defects, LV Septal Wall Motion, Segmental Function, Myocardial Performance Index, Case Studies.

Interesting Cardiac Case Studies (56 mins.)
Daniel Bourque, MS, RDCS, FASE | 1:39:59 PM 5/6/13
Video DVD or Online: 1.0 AMA PRA Category 1 Credits™ ISBN 978-1-94573-30-8
Topics: Interesting Cardiac Case Studies, Cardiac Case Studies, Cardiac Case Studies, Cardiac Case Studies, Cardiac Case Studies.

Cardiac Case Study Series: Cardiomyopathies (61 mins.)
Daniel Bourque, MS, RDCS, FASE | 1:39:59 PM 5/6/13
Video DVD or Online: 1.5 AMA PRA Category 1 Credits™ ISBN 978-1-94573-30-8
Topics: Cardiac Case Study Series: Cardiomyopathies, Cardiac Case Study Series: Cardiomyopathies, Cardiac Case Study Series: Cardiomyopathies, Cardiac Case Study Series: Cardiomyopathies, Cardiac Case Study Series: Cardiomyopathies.

Cardiac Case Study Series: Cardiac Masses (65 mins.)
Richard Palma, BS, RDMS, RVT, FASE, FSDIA | 1:39:59 PM 5/6/13
Video DVD or Online: 1.0 AMA PRA Category 1 Credits™ ISBN 978-1-94573-30-8
Topics: Cardiac Case Study Series: Cardiac Masses, Cardiac Case Study Series: Cardiac Masses, Cardiac Case Study Series: Cardiac Masses, Cardiac Case Study Series: Cardiac Masses, Cardiac Case Study Series: Cardiac Masses.

Challenging Echocardiogram Case Studies (54 mins.)
Richard Palma, BS, RDMS, RVT, FASE, FSDIA | 1:39:59 PM 5/6/13
Video DVD or Online: 1.0 AMA PRA Category 1 Credits™ ISBN 978-1-94573-30-8

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ECHOCARDIOGRAPHY ULTRASOUND PRODUCTS

OTHER TOPICS IN ECHOCARDIOGRAPHY

**NEW**

INTRODUCTION TO TRANSESOPHAGEAL ECHOCARDIOGRAPHY
STEVEN WALLING, BS, RCS, RCS, FASE, FSEDM
DURATION: 54 mins.
OPTIONS: DVD or ONLINE, 1.25 AMA PRA Category 1 Credits™ ISBN 978-1-950973-70-7

STRESS ECHOCARDIOGRAPHY
DANIEL BOURDOIS, MS, RCS, FASE, FSEDM
DURATION: 56 mins.
OPTIONS: DVD or ONLINE, 1.25AMA PRA Category 1 Credits™ ISBN 978-1-950973-74-3

THE ATHLETE'S HEART AND SUDDEN CARDIAC DEATH
RICHE PALMA, BS, RCS, RCS, ACS, FASE, FSEDM
DURATION: 66 mins.
OPTIONS: DVD or ONLINE, 1.25 AMA PRA Category 1 Credits™ ISBN 978-1-950973-06-3

ARRHYTHMIA AND EKG: WHAT THE ECHOCARDIOGRAPHER NEEDS TO KNOW
RICHE PALMA, BS, RCS, RCS, ACS, FASE, FSEDM
DURATION: 90 mins.
OPTIONS: DVD or ONLINE, 1.25 AMA PRA Category 1 Credits™ ISBN 978-1-950973-29-2

ULTRASOUND EVALUATION OF HEART FAILURE
DANIEL BOURDOIS, MS, RCS, FASE, FSEDM
DURATION: 66 mins.
OPTIONS: DVD or ONLINE, 1.25 AMA PRA Category 1 Credits™ ISBN 978-1-950973-16-7

FOCUSED CARDIAC ULTRASOUND
JAMES MATTER, MD, FASE, FSEDM
DURATION: 57 mins.
OPTIONS: DVD or ONLINE, 1.25 AMA PRA Category 1 Credits™ ISBN 978-1-945749-62-1

3D ECHOCARDIOGRAPHY: A SIMPLIFIED APPROACH
DAVID R. WRIGHT, MD, FASE
OPTIONS: DVD or ONLINE, 1.5 AMA PRA Category 1 Credits™ ISBN 978-1-940504-95-0

ECHOCARDIOGRAPHY ONLINE COURSES (12 MONTHS ACCESS)

INTRODUCTION TO ADULT ECHOCARDIOGRAPHY
DANIEL BOURDOIS, MS, RCS, FASE, RICHARD PALMA, BS, RCS, RCS, ACS, FASE, FSEDM
DURATION: 54 mins.
OPTIONS: 30 Day Access, DVD or ONLINE, 1.25 AMA PRA Category 1 Credits™ ISBN 978-1-945749-19-3

FOCUSED ECHO EXAM POCKET REFERENCE
THECUS K. CHEN, MD
DURATION: 15 mins.
OPTIONS: DVD or ONLINE, 1.25 AMA PRA Category 1 Credits™ ISBN 978-1-950973-15-5

THE ECHOCARDIOGRAPHIC POCKET REFERENCE 4TH ED.
RICHARD PALMA, BS, RCS, RCS, ACS, FASE, FSEDM
DURATION: 444 mins.
OPTIONS: DVD or ONLINE, 1.25 AMA PRA Category 1 Credits™ ISBN 978-1-945749-17-9

TEXTBOOK OF CLINICAL ECHOCARDIOGRAPHY 5TH ED.
CATHERINE OTTO, MD
OPTIONS: DVD or ONLINE, 1.25 AMA PRA Category 1 Credits™ ISBN 978-1-950973-34-8

ECHO UPDATE: ASE CHAMBER QUANTIFICATION GUIDELINES
DANIEL BOURDOIS, MS, RCS, FASE
DURATION: 76 mins.
OPTIONS: DVD or ONLINE, 1.25 AMA PRA Category 1 Credits™ ISBN 978-1-950973-24-2

CME VITALS

DOPPLER EVALUATION OF AORTIC STENOSIS
CHRISTIE JORDAN, BS, RCS, RCS, FASE, FSEDM
DURATION: 54 mins.
OPTIONS: DVD or ONLINE, 1.25 AMA PRA Category 1 Credits™ ISBN 978-1-950973-35-9

FOCUSED 2D CARDIAC VIEWS
LOREN GRADEN, PA, RCS, RCS
DURATION: 56 mins.
OPTIONS: DVD or ONLINE, 1.25 AMA PRA Category 1 Credits™ ISBN 978-1-950973-36-6

ULTRASOUND EVALUATION OF AORTIC DISSECTION
LOREN GRADEN, PA, RCS, RCS
DURATION: 56 mins.
OPTIONS: DVD or ONLINE, 1.25 AMA PRA Category 1 Credits™ ISBN 978-1-950973-37-3

ECHOCARDIOGRAPHIC EVALUATION OF DILATED CARDIOMYOPATHY
CHRISTIE JORDAN, BS, RCS, RCS, FASE, FSEDM
DURATION: 54 mins.
OPTIONS: DVD or ONLINE, 1.25 AMA PRA Category 1 Credits™ ISBN 978-1-950973-38-4
MUSCULOSKELETAL CME

""YOU ARE THE BEST TEAM I HAVE EVER SEEN, VERY PROFESSIONAL, THE BEST CREDENTIALS AND ORGANIZATION. THANK YOU FOR EVERYTHING.""

JESUS SANTIAGO HUERTA, M.D.

""STAFF MEMBERS AND INSTRUCTORS ARE VERY ATTENTIVE AND KNOWLEDGEABLE.""

DENNIS SOLLON, M.D.

""EXCELLENT COURSE. ALL THE FACULTY WERE VERY KNOWLEDGEABLE AND VERY RECEPTIVE TO QUESTIONS AND SHOWED GREAT SKILL IN ANSWERING THEM.""

CHANDUPATTA PRABHAKAN, M.D.

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LIVE MUSCULOSKELETAL COURSE
(LIVE LECTURES + HANDS-ON)
WITH OPTIONAL HUMAN CADADER LAB

INTRODUCTION TO MSK ULTRASOUND

COURSE OBJECTIVES:
1. Increase knowledge to better perform and/or interpret MSK ultrasound examinations.
2. List indications, benefits, & 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. Identify normal anatomy during musculoskeletal ultrasound imaging.
5. Demonstrate scanning protocols for performing shoulder, elbow, wrist/hand, knee, ankle/foot & hip ultrasound examinations.
6. Identify the sonographic appearance of common pathology of the shoulder, knee, elbow, wrist/hand, ankle and foot.
7. Increase confidence to interpret protocols, techniques and interpretation criteria to improve diagnostic/treatment accuracy.
8. 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.
9. Identify the anatomy during ultrasound guided MSK injections on cadaver models. (optional).
10. Demonstrate the principles of imaging techniques for MSK injections on cadavers. (optional).

COURSE FEATURES & TOPICS:
- Ultrasound Imaging Fundamentals
- Shoulder Anatomy & Scanning Techniques plus Live Demonstration
- Ultrasound Evaluation of the Elbow & Pathology plus Live Demonstration
- Ultrasound-Guided Injection Techniques
- Wrist & Hand Anatomy, Scan Techniques plus Live Demonstration
- Ultrasound Evaluation of the Knee & Pathology plus Live Demonstration
- Daily Hands-On Scanning With Live Models
- Industry Leading Hands-On 3:1 Scan Ratio
- Ultrasound Evaluation of the Ankle & Foot plus Live Demonstration
- Ultrasound Evaluation of the Hip & Pathology plus Live Demonstration
- “Optional” Interventional Human Cadaver Lab
- Digital Course Syllabus with Lifetime Access

WHO SHOULD ATTEND:
Any physician, sonographer or other medical professional who is involved in diagnostic MSK ultrasound exams and injection techniques. Participants may include (but are not limited to) medical professionals working in PM&R, Physical Therapy, Chiropractic, Military, Podiatry, Sports Medicine, Radiology, Internal Medicine, and Family Practice. PAs & Physical Therapists are also encouraged to attend.

CME CREDITS & TUITION:

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This course meets CME/CEU requirements forARDMS, APA and ABIM. 24.00 AMA PRA Category 1 Credits™ & 24.00 ABIM MOC Points with Optional Human Cadaver Lab. Advanced registration payment needs to be paid in full 30 or more days prior to the course start date. $200 late fee if register 14 days or less of course start date.

FACULTY

JON JACKSON, MD, FASMR
Professor of Radiology
Director of MSK Division
University of Cincinnati
Cincinnati, OH

RALE THELE, MA
Associate Professor of Med.
University of Rochester
Rochester, NY

CRAND CHAPPELL, DO, CASAM-FMSK
Regenerative Medicine Specialist
Insite Medical
Cham, UT

PAUL LENTO, MD, FASMR
Physical Medicine
Rehabilitation & Sports Medicine
Sarasota Orthopedic Associates
Sarasota, FL

LODI GREEN, BSc, RTR, RDMS, RDCS, RVT
Program Director
Gulf Coast Ultrasound Institute
St. Petersburg, FL

STEVEN SULMAN, DO, FASMR
Senior Staff Radiologist, MSK Radiology
Clinical Assistant Professor
WSU School of Medicine
Detroit, MI
LIVE MUSCULOSKELETAL COURSE  
(LIVE LECTURES + HANDS-ON) 
WITH HUMAN CADAVER LAB INCLUDED

ADV. / INTERVENTIONAL & REGEN MED. MSK ULTRASOUND

January 27-28, 2022  
August 18-19, 2022

ARMI-221  
ARM-222

COURSE OBJECTIVES: Upon completion of the program, the participant should be able to:

1. Increase the participant’s knowledge to better perform and/or interpret MSK ultrasound exams.
2. Outline the biology and evidence for use of various regenerative substances.
3. State when, why, and how to integrate regenerative medicine as a practical treatment option.
4. Interpret complex musculoskeletal ultrasound images and list treatment options and patient management strategies.
5. List protocols for ultrasound evaluation and treatment options of the spine.
7. State the role of ultrasound in nerve entrapment syndromes.
8. Demonstrate the principles of injection techniques for the performance of upper and lower extremity MSK interventions on cadaver models.
9. Increase confidence to incorporate protocols, scan techniques, and interpretation criteria to improve diagnostic/treatment accuracy.

COURSE FEATURES & TOPICS:

- Tendinopathy & Ultrasound Guided Tenotomy
- Carpal Tunnel Release, A1 Pulley Release, Hydrodissection & More
- Advanced MSK Ultrasound-Guided Procedures in Rehabilitative Medicine
- Prolotherapy: Principles & Applications
- PRP: General Principles / Applications
- Introduction to Spine Ultrasound
- Advanced Peripheral Nerve Applications
- Adv. & Regenerative Medicine Case Studies

WHO SHOULD ATTEND:

Physicians, Chiropractors, NP’s, PA’s, Sonographers, Physical Therapists, Athletic Trainers and other medical professionals specializing in: Sports Medicine, Orthopedics, Rheumatology, PM&R, Pain Management, Emergency Medicine, Regenerative Medicine, and other MSK-related fields. (GCUS recommends a minimum of 3 months prior MSK scanning experience, or attendance of our Introduction to Musculoskeletal Ultrasound Course prior to attending the Advanced Course.)

CME CREDITS & TUITION:

AMCAT: 16.00  
ABIM MOC: 16.00

ADVANCED COURSE TUITION: $3765  
REGULAR COURSE TUITION: $3965

ADV. TUITION INTRO. & ADV. MSK: $6110  
REGULAR TUITION INTRO & ADV. MSK: $6310

ADV. TUITION INTRO & ADV. MSK + CADAVER LAB: $7295  
REGULAR TUITION INTRO. & ADV. MSK + CADAVER LAB: $7495

FACULTY:

DAVID WANG, DO  
Director, Training & Education  
PMR Center  
Washington, DC

JON JACOBSEN, M.D., FASQ  
Professor of Radiology Director  
Division of MSK Radiology  
U. of Michigan Medical Center  
Ann Arbor, MI

JEFF STRAKOSKI, M.D.  
McConnell Spine, Sport & Joint  
Physicians  
Columbus, OH

TIMOTHY J. MAZZUCA, M.D., FACOM, FASQ  
Senior Clinical Instructor, CU Denver  
Medical School  
Boulder, CO

JOHN BROUSSARD, DO, FACOM  
Co-Owner/Partner  
Alliance Regen and Rehab  
St. Petersburg, FL

TARO AWAM, MD  
Staff Physician at Advent Health  
Head Team Physician for Orlando Magic  
Orlando, FL

“" This advanced MSK ultrasound course is a must attend for anyone who is serious about Interventional MSK ultrasound.”  

JOHN MAHONEY, MD

TO REGISTER OR TO PURCHASE PRODUCTS | 727.363.4500 | WWW.GCUS.COM
BLEND ED MUSCULOSKELETAL COURSE (ONLINE COURSE + HANDS-ON)

BLEND ED INTRODUCTION TO MSK ULTRASOUND

COURSE OBJECTIVES: Upon completion of the workshop, the participant should be able to:

1. Increase knowledge and skills to perform ultrasound examinations (specific exams based on specialty track selected).
2. Demonstrate appropriate scan techniques and protocols for performing ultrasound examinations.
3. Improve scanning skills and increase diagnostic confidence.
4. Perform scan examinations under supervised conditions to help fulfill credentialing and/or individual certification requirements.

ONLINE COURSE INCLUDES: (15 Months Unlimited Access.)

- Imaging Fundamentals & Tissue Characterization
- Ultrasound Evaluation of the Shoulder
- Ultrasound Evaluation of Shoulder Pathology
- Ultrasound Evaluation of the Normal Elbow
- Ultrasound Evaluation of Elbow Pathology
- Ultrasound Evaluation of the Hand & Wrist
- Ultrasound Evaluation of the Knee
- Ultrasound Evaluation of Knee Pathology
- Ultrasound Evaluation of the Foot & Ankle
- Ultrasound Evaluation of the Foot & Ankle
- Ultrasound-Guided MSK Injection Techniques
- Scanning Tips and Tricks from MSK Experts
- Downloadable / Printable Handouts

HANDS-ON WORKSHOP INCLUDES: (St. Petersburg, Florida)

- (2) Full Days Scanning Sessions (No Lectures)
- Log of Exams (if needed)
- 3:1 Participant to Instructor Scanning Ratio
- Extensive Personal Attention
- Scan Multiple Live Models Each Day
- Scanning Tips and Tricks from MSK Experts

WHO SHOULD ATTEND THIS FORMAT:

Physicians, Sonographers and other medical professionals learning how to perform and/or interpret musculoskeletal examinations who prefer a more self paced comprehensive online course option while still obtaining critical hands-on training.

CME CREDITS & TUITION:

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This course meets CME/CEU requirements for ARDMS, APA. Advanced registration payment needs to be paid in full 30 or more days prior to the course start date. $200 late fee if register 14 days or less of course start date.

FACULTY:

- JON JACOBSON, MD, RMSK
  Professor of Radiology
  Director, Division of MSK Radiology
  Ann Arbor, MI

- TIMOTHY J. MAZZOLA, MD, RMSK
  Assistant Professor of Radiology
  University of Rochester School of Medicine
  Rochester, NY

- PAUL LENTO, MD, RMSK
  Physical Medicine
  Rehabilitation
  Sarasota, FL

- SHANESHELPORE, MD, RMSK
  Sports & Orthopedic Medicine
  Mayo Clinic
  Jacksonville, FL

- CRAIG CHAPPELL, OD, RMSK
  Regenerative Medicine Spec.
  In2th Medical
  Orem, UT

- RALF THIELE, MD
  Associate Professor of Med.
  University of Rochester
  Rochester, NY

TO REGISTER OR TO PURCHASE PRODUCTS | 727.363.4500 | WWW.GCUS.COM
BLEND MUSCULOSKELETAL COURSE
(ONLINE COURSE + HANDS-ON)

COURSE OBJECTIVES: Upon completion of the workshop, 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 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 normal anatomy during musculoskeletal ultrasound imaging.
6. Identify the sonographic anatomy during ultrasound-guided MSK injections on cadaver models.
7. 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.
8. Demonstrate the principles of imaging techniques for the performance of upper and lower extremity MSK injections on cadaver models.

ONLINE COURSE INCLUDES: (15 Months Unlimited Access.)
- Imaging Fundamentals & Tissue Characterization
- Ultrasound Evaluation of Elbow Pathology
- Ultrasound Evaluation of the Shoulder
- Ultrasound Evaluation of the Hand & Wrist
- Ultrasound Evaluation of Shoulder Pathology
- Ultrasound Evaluation of the Knee
- Ultrasound Evaluation of Normal Elbow
- Ultrasound Evaluation of Knee Pathology
- Ultrasound Evaluation of the Foot & Ankle
- Ultrasound-Guided MSK Injection Techniques
- Downloadable / Printable Handouts

HANDS-ON WORKSHOP INCLUDES: (St. Petersburg, Florida)
- (2) Full Days Scanning Sessions (No Lectures)
- Log of Exams (if needed)
- 3:1 Participant to Instructor Scanning Ratio
- Human Cadaver Lab
- Scan Multiple Live Models Each Day
- Scanning Tips and Tricks from MSK Experts

WHO SHOULD ATTEND THIS FORMAT:
Physicians, Chiropractors, NP’s, PA’s, Sonographers, Physical Therapists, Athletic Trainers, other medical professionals specializing in: Sports Medicine, Orthopedics, Rheumatology, PM&R, Pain Management, Emergency Medicine, Regenerative Medicine, and other MSK fields.

CME CREDITS & TUITION:

|AMA CATEGORY I ONLINE COURSE| 16.50 |ADVANCED REGISTRATION|$4245 | This course meets CME/CEU requirements for ARDMS, APA. Advanced registration payment needs to be paid in full 30 or more days prior to the course start date. $200 late fee if register 14 days or less of course start date. |
|-----------------------------|-------|---------------------|-------|
|AMA CATEGORY I SCANWORKSHOP| 16.00 |REGULAR REGISTRATION|$4445 |
|ABIM MOC SCANWORKSHOP | 16.00 |

FACULTY:

JON JACOBSON, MD, RMSK
Professor of Radiology Director
Division of MSK Radiology
U. of Michigan Medical Center
Ann Arbor, MI

TIMOTHY J. MAZZULA, MD, CAQSM RMSK
Senior Clinical Instruct. CU Denver
Medical School
Boulder, CO

PAUL LENTO, MD, RMSK
Physical Medicine
Rehabilitation & Sports Medicine
Sarasota Orthopedic Associates
Sarasota, FL

CRAIG CHAPPELL, DD, RMSK, CAQSM
Regenerative Medicine Spec.
In2it Medical
Orem, UT

Ralf Theile, MD
Associate Professor of Med.
University of Rochester
Rochester, NY
BLEND ED MUSCULOSKELETAL COURSE  (ONLINE COURSE + HANDS-ON)  May 16-17, 2022  BNU-221

COURSE OBJECTIVES:  Upon completion of the workshop, the participant should be able to:
1. Increase the participant’s knowledge to perform and / or interpret peripheral nerve ultrasound exams.
2. State the fundamentals of ultrasound physics & show appropriate optimization of system controls.
3. Assess and diagnose focal neuropathies using high frequency ultrasound techniques.
4. Recognize anatomy and details of the nerves to assist with management of local neuropathies.
5. Identify common and challenging nerves using high frequency ultrasound
6. Outline the approach for common and uncommon peripheral nerve blocks and interventions.
7. State the benefits of utilizing EMG/Ultrasound.
8. Recognize muscle echo texture and anatomical localization for diagnostic purposes and therapeutic injections, including chemodenervation.
9. Increase confidence to perform diagnostic and therapeutic ultrasound guidance for peripheral nerve procedures.
10. Increase confidence to incorporate protocols, scan techniques, & interpretation criteria to improve diagnostic/treatment accuracy.

ONLINE COURSE INCLUDES:  (15 Months Unlimited Access.)
- Imaging Fundamentals
- Ultrasound Evaluation of Peripheral Nerves
- Ultrasound Evaluation of the Brachial Plexus
- US Eval. of the Radial, Ulnar, & Median Nerves
- Ultrasound Evaluation of the Knee Nerves
- Ultrasound Eval. of the Foot & Ankle Nerves
- Ultrasound-Guided Injection Techniques
- Advanced Nerve Injections
- Regenerative Medicine Procedures
- EMG Guidance
- Ultrasound and Chemodenervation
- Challenging Case Studies

HANDS-ON WORKSHOP INCLUDES:  (St. Petersburg, Florida)
- (2) Full Days Scanning Sessions (No Lectures)
- 1/2 Day Human Cadaver Lab
- 3:1 Participant to Instructor Scanning Ratio
- Extensive Personal Attention
- Scan Multiple Live Models Each Day
- Scanning Tips and Tricks from MSK Experts

WHO SHOULD ATTEND THIS FORMAT:
Any clinician, sonographer or other medical professional who desires a hands-on scanning skills workshop to learn how to perform and interpret advanced musculoskeletal and peripheral nerve ultrasound techniques and interventional procedures of the upper and lower limbs. Physician participants may include: Neurology, Sports Medicine, Orthopedics, Rheumatology, PM&R, Pain Management, anesthesiology, Regenerative Medicine, and other MSK related fields. NPs, PA’s, Physical therapists, sonographers, and other medical professionals may attend.

CME CREDITS & TUITION:

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This course meets CME/CEU requirements for ARDMS, APCA. Advanced registration payment needs to be paid in full 30 or more days prior to the course start date. $200 late fee if register 14 days or less of course start date.

FACULTY:  (Faculty Listed are for Online Course Only.)

JEFF STRATAWSKI, MD (Course Director)
McConnell Spine, Sport & Joint Physicians
Columbus, OH

JON JACOBSEN, MD, RAD
Professor of Radiology Director
Division of MSK Radiology
U. of Michigan Medical Center
Ann Arbor, MI

KATHARINE ALTER, MD
Medical Director
National Institutes of Health (NIH)
Bethesda, MD

CRAIG CHAPPELL, DO, RMSK, CAUSM
Regenerative Medicine Spec.
In2it Medical
Orem, UT

TO REGISTER OR TO PURCHASE PRODUCTS | 727.363.4500 | WWW.GCUS.COM
# MUSCULOSKELETAL ULTRASOUND PRODUCTS

## Regenerative Medicine Case Studies DVD Course Pack

**Price:** $438  
Additional CME: 7.50 AMA PRA Category 1 Credits™

### Case Studies Vol. 2 Bone Marrow & Lipoproteinase (116 mins.)
- Adipose Tissue Harvesting Procedure  
- Bone Marrow Procedure of the Knee  
- Bone Marrow Aspiration Techniques  
- Periarticular Thumb/Scapula/Metacarpal  
- Intravascular Thumb/Scapula/Metacarpal

### Case Studies Vol. 3 Upper Extremity & Spine (100 mins.)
- Carpal Epidual  
- PRP Treatment of the Elbow  
- PRP Treatment of the Shoulder  
- PRP Treatment of the Spine  
- PRP Treatment of the Wrist  
- Myofascial Stretching Shoulder  
- Regenerative Medicine Interventions  
- Regenerative Medicine Demos

## MUSCULOSKELETAL ULTRASOUND ONLINE COURSES (12 MONTHS ACCESS)

### Introduction to MSK Ultrasound - Upper Extremities **NEW**
- Fundamentals & Tissue Characterization  
- US Evaluation of the Shoulder & Pathology  
- Ultrasound Guided Injection Techniques

### Advanced Musculoskeletal Ultrasound Applications **NEW**
- Dynamic Imaging  
- Post-Operative MSK Ultrasound  
- Advanced Foot, Ankle & Hip  
- UG-Guided Peripheral Nerve Injections

### Ultrasound Guided Regenerative Medicine in MSK Applications **NEW**
- Bone Marrow & Lipoproteinase  
- Imaging Other Tissues  
- Imaging Muscle  
- Imaging Nerve  
- Imaging Foreign Bodies & Artifacts  
- Imaging Injections & More

## MUSCULOSKELETAL ULTRASOUND BOOKS

### Netter's Concise Orthopaedic Anatomy (416 pgs.)
- Netter, J.O.  

### Fundamentals of MSK Ultrasound - Third Ed. **NEW**
- Fidler, R.L.  

### CME VITALS

### 2D Ultrasound Image Optimization

### Ultrasound Evaluation of Baker Cyst

### Ultrasonography for Fracture Assessment

### Ultrasonography-Guided Needle Placement
""WELL ORGANIZED. EXCELLENT TEACHERS. LOTS OF OPPORTUNITIES FOR QUESTIONS. ENJOYED THE PROGRAM VERY MUCH.""

THOMAS S. PLAVA, M.D.

""VERY HELPFUL PROGRAM! ALWAYS GOOD TO LEARN SOMETHING FROM OTHER TECHNOLOGISTS.""

CYNTHIA DAUGHERTY, RDMS, RTR (M)

""AN EXCELLENT PROGRAM. ENTHUSIASTIC, KNOWLEDGEABLE AND KIND EMPLOYEES, THE SPEAKERS WERE WELL VERSED AND COMMUNICATED INFO WITH EASE. VERY ENJOYABLE EXPERIENCE.""

KRISTIN RAWLINSON, RDMS, RVT

TO REGISTER OR TO PURCHASE PRODUCTS | 727.363.4500 | WWW.GCUS.COM
LIVE & VIRTUAL VASCULAR COURSE (LIVE LECTURES + HANDS-ON FOR LIVE ATTENDEES)

INTRO TO CAROTID DUPLEX/COLOR FLOW IMAGING

July 18-19, 2022  C-221

COURSE OBJECTIVES:
Upon completion of the program, the participant should be able to:

1. Increase the participant’s knowledge to better perform and interpret Carotid Duplex/Color Flow Imaging ultrasound examinations.
2. Apply knowledge of the anatomy/physiology of the cerebrovascular system into the Carotid Duplex exam.
3. Cite Doppler/color flow physics principles and be able to (sonographers) apply these principles to optimize system controls and/or (physicians) utilize this information for identifying technical errors which may result in misdiagnosis.
4. Perform routine scan protocols, and Doppler calculations in a complete carotid duplex/color examination.
5. Differentiate normal/abnormal spectral Doppler/color characteristics.
6. List methods of obtaining quantitative information & state the diagnostic relevance of each measurement.
8. Perform intima-media thickness measurements and state the clinical significance as a screening method for cardiovascular disease.
10. Integrate the information to include and prepare a structured report for a carotid ultrasound examination.

COURSE FEATURES & TOPICS:
- Doppler & Color Fundamentals
- Carotid Anatomy, Physiology & Scan Protocols
- Scan Logs / Checklists Available
- Lifetime Access to Digital Course Syllabus
- Carotid Stenosis Assessment
- Case Studies / Structuring a Report
- Normal Spectral Analysis
- 3:1 Hands-On Scan Ratio with Live Models
- Interactive Review of Carotid Imaging Pitfalls
- Disease Progression / Intima-Media Thickness
- Non-Atherosclerotic Carotid Abnormalities
- Transcranial Doppler Ultrasound Basics

WHO SHOULD ATTEND:
Any physician, sonographer or other medical professionals learning how to perform carotid duplex/color examinations (proof of allied health experience required). Physicians at an entry level of interpreting exams. Physician participants may include (but are not limited to) those involved with internal medicine, cardiology, radiology, neurology, primary care, and general/vascular surgery. See the next page for the Blended Education.

CME CREDITS & TUITION:

| AMA CAT. I | 16.00 |
| ABIM MOC | 16.00 |
| REGULAR COURSE TUITION | $2020 |
| ADVANCED COURSE TUITION | $1820 |
| VIRTUAL COURSE TUITION | $930 |

This course meets CME/CEU requirements for ARDMS, CCI, APCA. *Advanced registration payment needs to be paid in full 30 or more days prior to the course start date. $200 late fee if register 14 days or less of course start date.

Combine and Save with Peripheral Vascular Ultrasound Course.

FACULTY:

PHILLIP BENEDICK, PHIL, RVT, RDMS, SVU
Vascular Consultant
Bass, NC

LORE GREEN, BA, ARDMS, RDMS, RVT
Program Director
Gulfcoast Ultrasound Institute
St. Petersburg, FL

TRISHA REX, RDMS, RVT
Program Coordinator
Gulfcoast Ultrasound Institute
St. Petersburg, FL

"GOOD USE OF TIME & COVERAGE OF FUNDAMENTALS. I PLAN TO EXPLORE THIS MODALITY IN MY PRACTICE AS AN INTERNIST AND KEY CARDIOLOGIST PARTNER."

MARCUS SANTIAGO, M.D.

SAVE! Combine with Introduction to Peripheral Vascular Duplex/Color Flow Imaging Course & SAVE. SAVE!
BLENDED VASCULAR COURSE (ONLINE COURSE + HANDS-ON)

ONLINE COURSE OBJECTIVES:
1. Increase the participant's knowledge to better perform and/or interpret Carotid Duplex/Color Flow Imaging ultrasound examinations.
2. Apply knowledge of the anatomy/physiology of the cerebrovascular system into the Carotid Duplex exam.
3. Cite Doppler/color flow principles and be able to (sonographers) apply these principles to optimize system controls and/or (physicians) utilize this information for identifying technical errors which may result in misdiagnosis.
4. Perform routine scan protocols, and Doppler calculations in a complete carotid duplex/color examination.
5. Differentiate normal/abnormal spectral Doppler/color characteristics.
6. List methods for obtaining quantitative information and state the diagnostic relevance of each of the measurements.
9. Integrate the information to include and prepare a structured report for a carotid ultrasound examination.
10. Apply diagnostic criteria for accurate interpretation of Carotid Duplex/Color Flow Examinations
11. Better perform and/or interpret upper and lower peripheral vascular ultrasound examination.

ONLINE COURSE INCLUDES: (15 Months Unlimited Access.)
- Doppler & Color Fundamentals
- Carotid Anatomy, Physiology & Scan Protocols
- Normal Carotid Spectral Analysis
- Downloadable / Printable Handouts
- Carotid Duplex/Color Scan Protocol
- Carotid Stenosis Assessment
- LUS Evaluation of Intima-Media Thickness
- Challenging Carotid Cases Studies
- Non-Atherosclerotic Carotid Abnormalities
- Extensive Personal Attention
- Scanning Tips and Tricks from the Experts

HANDS-ON WORKSHOP INCLUDES: (St. Petersburg, Florida)
- (1) Full Day Scanning Sessions (No Lectures)
- Scan Multiple Live Models Everyday
- 3:1 Participant to Instructor Scanning Ratio
- Log of Exams (if needed)

WHO SHOULD ATTEND THIS FORMAT:
Any busy physician, sonographer or other medical professionals learning how to perform carotid duplex/color examinations. Physicians at an entry level of interpreting examinations who prefer a blended format (online course + hands-on). Physician participants may include (but are not limited to) those involved with internal medicine, cardiology, radiology and general/vascular surgery.

CME CREDITS & TUITION:

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Combine with either Blended Peripheral Vascular or Blended TCD Course & Save. Advanced registration payment needs to be paid in full 30 or more days prior to the course start date. $200 late fee if you register 14 days or less of course start date.

FACULTY:

PHILLIP BENZICK, PHIL, RVT, FSDMS, SAW
Vascular Consultant
Base, NC

LORI GREEN, BA, ARMR, RDMS, RDCS, RVT
Program Director
Gulfcoast Ultrasound Institute
St. Petersburg, FL

"THE [BLENDED] OPTION WAS PERFECT FOR ME AND MY BUSY SCHEDULE. THANKS AGAIN FOR A WAY TO TAKE THE COURSE AT HOME AND ONLY HAVE TO BE AWAY FROM WORK FOR THE HANDS-ON PART. THIS WAS A GREAT COURSE!"

DENISE CONLIN, RVT, RDMS
LIVE & VIRTUAL VASCULAR COURSE (LIVE LECTURES + HANDS-ON FOR LIVE ATTENDEES)

INTRO TO PERIPHERAL VASCULAR DOPPLER/COLOR FLOW IMAGING    July 20-21, 2022    P-221

COURSE OBJECTIVES: Upon completion of the program, the participant should be able to:

1. Increase the participant's knowledge to better perform and/or interpret upper & lower Peripheral Vascular ultrasound examinations.

2. Apply knowledge of the anatomy/physiology of the upper & lower extremity venous and arterial systems into the venous & arterial duplex and physiologic testing examinations.

3. Cite Doppler/color physics and be able to (sonographers) apply these principles to optimize system controls and/or (physicians) utilize this information for recognizing technical errors which may result in misdiagnosis.

4. Perform routine scan protocols, and document Doppler waveforms for lower extremity arterial and venous evaluations of the upper and lower extremity.

5. Differentiate normal/abnormal imaging, spectral Doppler and color characteristics for identifying arterial and venous disease.

6. State the indications & applications of indirect testing methods for lower arterial disease.

7. Demonstrate vein mapping techniques to identify suitability as a potential arterial bypass graft.

8. Perform routine scan protocols & document Doppler waveforms for venous evaluation of the lower extremities, including pre and post vein ablation evaluation.

9. State the role of ultrasound in the diagnosis and treatment of venous insufficiency.


COURSE FEATURES & TOPICS:

- Venous & Arterial Anatomy/Physiology
- Vascular Scan Techniques
- Direct & Indirect Procedure Testing
- Pre & Post-Procedural Mapping
- Duplex/Color Evaluations of Lower & Upper Extremities.
- Evaluation of Venous Insufficiency
- Duplex/Color Evaluation for Venous Ablation Procedures
- Types of Vein Ablation Procedures
- Lower Extremity Arterial Anatomy & Physiology & Treatment of Lower Arterial Disease.
- Arterial Direct & Indirect Testing & Duplex Scanning
- 3:1 Hands-On Scanning with Live Models, plus Scan Logs and Checklists are Available at request
- FREE Video: Doppler & Color Fundamentals & Lifetime Access to Digital Course Syllabus

WHO SHOULD ATTEND:
Physicians, sonographers and other medical professionals learning to perform peripheral vascular duplex/color exams who prefer a traditional live lecture plus hands-on format. Physician participants may include (but are not limited to) those involved with internal medicine, cardiology, radiology, neurology, primary care and general vascular surgery. See the next page for the Blended Education (Online + Hands-On) Option.

CME CREDITS & TUITION:

|AMA CAT. I| 16.00 |
|ABIM MOC| 16.00 |
|ADVANCED COURSE TUITION| $1845 |
|REGULAR COURSE TUITION| $2045 |
|VIRTUAL COURSE TUITION| $930 |

This course meets CME/CEU requirements for ARDMS, CCI & APCA. Advanced registration payment needs to be paid in full 30 or more days prior to the course start date. $200 late fee if register 14 days or less of course start date. Combine with Carotid Duplex/Color Flow Imaging Course & SAVE

FACULTY:

PHILLIP BENDICK, PHD, RVT, RDMS, FSU
Vascular Consultant
Bax, NC

TRISHA ROY, RDMS, RVT
Program Coordinator
Gulfcoast Ultrasound Institute
St. Petersburg, FL

“VERY INFORMATIVE AND FANTASTIC INSTRUCTORS. I WOULD HIGHLY RECOMMEND THIS COURSE TO FUTURE TECHNICIANS AND PHYSICIANS ALIKE. TWO THUMBS UP.”

KELLY D. LEWIS, BA, RT, RCS

SAVE! Combine with Introduction to Carotid Duplex/Color Flow Imaging Course & SAVE. SAVE!
BLENDED VASCULAR COURSE (ONLINE COURSE + HANDS-ON)

BLENDED INTRO TO PERIPHERAL VASCULAR ULTRASOUND

ONLINE COURSE OBJECTIVES:
1. Increase the participants’ knowledge to better perform and interpret upper and lower Peripheral Vascular ultrasound examinations.
2. Apply knowledge of the anatomy/physiology of the upper & lower extremity venous & arterial systems into the venous & arterial duplex & physiologic testing exam.
3. Differentiate normal/abnormal imaging, spectral Doppler and color characteristics for identifying arterial and venous disease.

ONLINE COURSE INCLUDES: (15 Months Unlimited Access.)
- Anatomy, Techniques & Normal Characteristics
- Duplex/Color Evaluation for Venous Ablation
- Duplex / Color Evaluation of LE, UE & DVT
- Types of Vein Ablation Procedures
- Evaluation of Venous Insufficiency
- Pre & Post-Procedure Mapping
- LE Arterial Anatomy & Physiology
- Clinical Exam & Indirect Testing
- Direct Testing & Duplex Scanning
- Scan Multiple Live Models Everyday
- Extensive Personal Attention
- Log of Exams (if needed)
- Scanning Tips and Tricks from the Experts

HANDS-ON WORKSHOP INCLUDES: (St. Petersburg, Florida)
- (1) Full Day Scanning Sessions (No Lectures)
- 3:1 Participant to Instructor Scanning Ratio

WHO SHOULD ATTEND THIS FORMAT:
Any busy physician, sonographer or other medical professionals learning how to perform peripheral vascular ultrasound examinations who prefers a blended format (online course + hands-on scanning). Physicians at an entry level of interpreting examinations. Physician participants may include (but are not limited to) those involved with internal medicine, cardiology, radiology and general/vascular surgery.

CME CREDITS & TUITION:

| AMA CATEGORY I ONLINE COURSE | 13.50 |
| AMA CATEGORY I SCAN WORKSHOP | 6.00 |
| ADVANCED COURSE TUITION | $1870 | REGULAR COURSE TUITION | $2070 |

Advanced registration payment needs to be paid in full 30 or more days prior to the course start date. $200 late fee if you register 14 days or less of course start date. Combine with Blended Carotid Course & Save.

FACULTY:
- ROB OLALLIE, DA, RVT, FSUS, FSIM
  President, Summer Publishing
  Ultrasound Consultant
  Denver, CO

- PHILIP BENDICK, MD, RVT, FSUS, FSIM
  Vascular Consultant
  Bass, NC

"FINALLY! SOMEBODY CAME UP WITH THE PERFECT ULTRASOUND SPECIFIC CME OPTION FOR ME. COST AND TIME EFFECTIVE AT THE SAME TIME. I LOVED THE EASE OF USE FOR THE ONLINE COURSE AND THE MULTIPLE OPTIONS FOR ME TO SCAN. THANK YOU.

CONNIE WILLIS"
BLEND VASCULAR COURSE (ONLINE COURSE + HANDS-ON)

Friday, February 18, 2022  BTCDSO-222

ONLINE COURSE OBJECTIVES: Upon completion of the program, the participant should be able to:

1. Increase participant’s knowledge to better perform and/or interpret TCD/TCI exams.
2. Demonstrate standard scan techniques for performing a TCD and TCI exam.
3. Recognize normal and abnormal intracranial Doppler spectral waveform characteristics.
4. Apply diagnostic criteria for TCD/TCI interpretation.
5. State the clinical applications and the limitations of TCD/TCI exams.
6. Increase knowledge and confidence to integrate the skills learned in a clinical setting.

ONLINE COURSE INCLUDES: (15 Months Unlimited Access)

- Transcranial Doppler History
- Clinical Applications
- Brain Death, Emboli, Cerebrovascular Disease
- Neuroradiology & TCD Exam Techniques
- Subarachnoid Hemorrhage
- Intracranial Stenosis, Intracranial Occlusion
- Downloadable / Printable Handouts
- AVM, Cerebrovascular Reactivity, Trauma
- Sickle Cell Disease, PFO
- Hands-On Workshop Includes: (St. Petersburg, Florida)
- 1 Full Day Scanning Sessions (No Lectures)
- Scan Multiple Live Models Everyday
- Extensive Personal Attention
- 3:1 Participant to Instructor Scanning Ratio
- Log of Exams Provided (if needed)
- Scanning Tips and Tricks from the Experts

WHO SHOULD ATTEND THIS FORMAT:

Any busy sonographer, physician, nurse practitioner, PAs or other medical professional performing and/or interpreting TCD ultrasound examinations. Physician participants may include (but is not limited to) cardiology, neurology, vascular surgery, primary care and radiology.

CME CREDITS & TUITION:

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This course meets CME/CEU requirements for ARDMS, CCI, & APCA.

Advanced registration payment needs to be paid in full 30 or more days prior to the course start date. $200 late fee if you register 14 days or less of course start date.

Combine with Blended Carotid Course & Save.

FACULTY:

- Dinalee Davis, CRN
  Clinical Vascular Specialist
  Carefusion
  Lower Burell, PA

- Lori Green, BA, RTR, RDMS, RDCS, RVT
  Program Director
  Gulf Coast Ultrasound Institute
  St. Petersburg, FL

""Thank you for affordable CME credits and great scan workshop with amazing faculty. I learned more than I expected, especially since I have been scanning for more than 20 years. I am impressed. Thanks again."

Sharon Hawkins-Gustafson
VASCULAR ULTRASOUND PRODUCTS

ADVANCED VASCULAR ULTRASOUND VIDEOS

ULTRASOUND EVALUATION OF DIALYSIS ACCESS GRAFTS & FISTULAS (21 mins.)
R. ROBERT ATNIP, MD, RVT, FVSIM $99.00  # 1AO2955M
DEMO DVD or ONLINE: 1.0 AMA PRA Category 1 Credits™ ISBN # 978-1-945694-4-4

TOPICS:
- Types of Dialysis
- Management of Renal Disease
- Dialysis Access Types
- Overview of Dialysis Access Procedures
- Role of the Vascular Lab
- Pro-operative Venous & Arterial Mapping
- AV Access Complications

ULTRASOUND EVALUATION OF AORTIC ENDOGRAFHS (97 mins.)
R. ROBERT ATNIP, MD, RVT, FVSIM $99.00  # 1AO2955M
DEMO DVD or ONLINE: 1.0 AMA PRA Category 1 Credits™ ISBN # 978-1-945694-4-4

TOPICS:
- Ultrasound in Evaluating EVAR
- EVAR vs. Open Repair
- Advantages & Disadvantages
- Role of Duplex / Color Flow Imaging
- EVAR & Endoanal
- EVAR Scan Protocols for Endoanal
- Post-operative Surveillance
- Case Examples

MESENTERIC & PORTO-HEPATIC DUPLEX SONOGRAPHY (11 mins.)
PHILIP BENDIX, PHD, RVT, FSIM, FSUS, FSVM $89.00  # 1AO2955M
DEMO DVD or ONLINE: 1.5 AMA PRA Category 1 Credits™ ISBN # 978-1-945694-3-3

TOPICS:
- Acute Mesenteric Ischemia (Mortality Data & Diagnosis Criteria)
- Symptom-Normal Anatomy
- Scan Protocols: Normal & Abnormal Waveform Characteristics
- EVAR of Chronic Dissection
- Median Arcuate Ligament Syndrome
- Anomalous Artery
- Mesenteric Fibromuscular Dysplasia
- Mesenteric Thrombosis
- Portal Venous Anatomy & Normal Flow Waveform Characteristics
- Evaluation of Portal Hypertension: Portal Vein Thrombosis & TIPS Procedure

INTRODUCTION TO TRANSPLANT SONOGRAPHY (15 mins.)
R. ROBERT ATNIP, MD, RVT, FVSIM $99.00  # 1AO2955M
DEMO DVD or ONLINE: 1.5 AMA PRA Category 1 Credits™ ISBN # 978-1-945694-3-3

TOPICS:
- Indications for Organ Transplant
- Scanning Techniques & Protocols for Eval. of Renal, Liver, & Pancreatic Transplants
- Sonographic Characteristics & Diagnostic Criteria for Eval. of Transplant Dysfunction
- Technological Advancements & Future USG Applications for Eval. of Transplants

VASCULAR ULTRASOUND ONLINE COURSES (12 MONTHS ACCESS)

INTRODUCTION TO CAROTID DUPLEX/COLOR FLOW ULTRASOUND
PHILIP BENDIX, PHD, RVT, FSIM, FSUS, BRAN SCHENKER, MBA, RCM, RVT & LOU GREEN, BA, MPH, RDS, RCM, RVT & $25.00
OCC-ACER10 ONLINE COURSE: 0.5 AMA PRA Category 1 Credits™ $75.00

TOPICS:
- Doppler & Color Fundamentals
- Carotid Anatomy & Physiology
- Normal Carotid Spectral Analysis
- Carotid Scan Protocol
- Carotid Duplex/Color Scan Protocol
- Carotid Stenosis Assessment
- U.S. Ed. of Intima-Media Thickness
- Challenging Carotid Case Studies
- Non-Atherosclerotic Carotid Abnormalities
- How to Structure a Report

INTRODUCTION TO PERIPHERAL DOPPLER ULTRASOUND
PHILIP BENDIX, PHD, RVT, FSIM, FSUS, ROB DAIGLE, BA, RVT, FSIM, FSUS, LOU GREEN, BA, MPH, RDS, RCM, RVT, & $25.00
OCC-PHATN1 ONLINE COURSE: 1.0 AMA PRA Category 1 Credits™ $125.00

TOPICS:
- Doppler & Color Fundamentals
- Venous Anatomy, Scan Techniques & Normal Characteristics
- Duplex/Color Evaluation of Upper & Lower Extremity
- Duplex/Color Evaluation of Venous Insufficiency & Abnormal Procedures
- Ultrasound Evaluation of Atheromatous Grafts
- Arterial Anatomy & Physiology

RUPTURE & VASCULAR INTERPRETATION WITH 100 VASCULAR CASES **NEW**
MARGUS NEUMEYER, BS, RVT, FSIM, FSUS, BS-LIM & R. ROBERT ATNIP, MD, RVT, FVSIM $125.00
OCC-RU101 ONLINE COURSE: 2.0 AMA PRA Category 1 Credits™ $350.00

TOPICS:
- Hemodynamic Principles & Doppler Fundamentals
- Instrumentation: Transducers, Imaging Modes & Artifacts
- Normal Carotid Anatomy, Waveforms & Scan Protocol
- Abnormal Vascular Characteristics & Diagnostic Criteria
- Peripheral Arterial Physiologic Exams, Arterial Imaging & Much More

ULTRASOUND-GUIDED VASCULAR ACCESS: A COMPREHENSIVE GUIDE
ANDREAS WIEZEL, MD, FNA, FACP, FASQ, LOU GREEN, BA, RDS, RCM, RVT & $35.00
OCC-AGV101 ONLINE COURSE: 0.25 AMA PRA Category 1 Credits™ $50.00

TOPICS:
- Fundamentals of USVIA
- USG Guided Periperal Line Placement
- Direct vs. Indirect Techniques
- In Plane vs. Out of Plane Techniques
- Vessel Dilation & Procedural Tips
- US-Guided Central Line Placement
- Ul. & Subclavian & Femoral Ven Access - USG Guide Cover Demonstration

INTRODUCTION TO ABDOMINAL DOPPLER ULTRASOUND **NEW**
LOU GREEN, BA, MPH, RDS, RCM, RVT & PHILIP BENDIX, PHD, RVT, FSIM, FSUS & $45.00
OCC-ADOP101 ONLINE COURSE: 1.0 AMA PRA Category 1 Credits™ $75.00

TOPICS:
- Imaging Fundamentals
- Abdominal Doppler Physics
- Aneurysms & Post-Operative Doppler
- Evaluation of the Abdominal Aorta
- Evaluation of Aortic Endoanomalies

VASCULAR CASE STUDIES | ONLINE COURSE PACK $891

ARTERIAL CASE STUDIES
MARGUS NEUMEYER, BS, RVT, FSIM, FAUHM ROBERT ATNIP, MD, RVT, RPY & DENNIS BANDYK, MD, FACP & ROB DAIGLE, BA, RVT, FSIM, FSUS & $330.00
OCC-ACER191 ONLINE COURSE: 6.0 AMA PRA Category 1 Credits™ $550.00

TOPICS:
- Arterial Occlusive Disease
- Arteriovenous Fistula
- Fat Embolus
- Aneurysmal
- Proximal Subclavian Artery Compression
- Carotid Stenosis
- Anomalous Arterial Source
- Aortic Stenosis
- Medial Arcuate Ligament Compression
- Arterial Pseudoaneurysm
- Aortic Dissection
- Femoral-Anterior Disease
- Ilio Femoral Occlusion
- Arterial Stent Occlusion
- Endografts
- Fibrin Sheath
- Renal Artery
- Artifical Stents
- Aneurysmal Ligament Compression
- Renal Medial Fibromuscular Dysplasia

VENOUS CASE STUDIES
MARGUS NEUMEYER, BS, RVT, FSIM, FAUHM ROBERT ATNIP, MD, RVT, RPY & DENNIS BANDYK, MD, FACP & $330.00
OCC-VCER191 ONLINE COURSE: 6.0 AMA PRA Category 1 Credits™ $550.00

TOPICS:
- Venous Outflow Stenosis
- Proximal Venous Occlusion
- Thrombus Formation
- Elevation of Central Pressure
- Valvular Insufficiency
- Proximal Venous Occlusion
- Venous Occlusion
- Inferior Venous Thrombosis
- Common Femoral & Vein Insufficiency
- Thrombosis
- Venous Occlusion
- Balloon Dilatation
- Arteriovenous Fistula
- Aneurysm Compression
- Abdominal Venous Duplex
- Venous Duplex ultrasound CAT-Scan Retrombophtallic Fibrous
- Post-Operative Incompetence
- Common Femoral Venous Stenosis
- Common Femoral Vein Compromision
- Chronic Venous Occlusion
- Cerebral Vein Occlusion
- Carotid Artery Stenosis
- Carotid Artery Dissection
- Infrarrenal Aortoarterial Occlusion
- Arteriovenous Malformation
- Aneurysmal Stenosis
- Aneurysmal Stenosis
- Chronic Arterial Stenosis
- Post-Operative Incompetence

NOTE* Vascular Case Studies Course Pack has a total of 100 Cases in Double-Read Format. (Used towards hospital credentialing, individual certification and/or lab accreditation.)

TO REGISTER OR TO PURCHASE PRODUCTS | 727.363.4500 | WWW.GCUS.COM
VASCULAR ULTRASOUND PRODUCTS

ABDOMINAL DOPPLER ULTRASOUND | DVD COURSE PACK $651

Optional: 9.5 AMA PRA Category 1 Credits™ CP-ABO

INTRODUCTION TO TRANSPLANT SONOGRAPHY **NEW** (75 mins.)
PHILIP BENDICK, PHD, RVT, FSUSON; FSVTS I $99.00 | 1.25 AMA PRA Category 1 Credits™ ISBN # 1-954790-03-6

TOPICS:
- Indications for Organ Transplants
- Imaging Transplant Function
- Scanning Techniques & Protocols for Transplant
- Sonographic Findings & Diagnostic Criteria for Transplant Dysfunction
- Technological Advances & Future Ultrasound Applications for Transplant

MESENTERIC & PORTO-HEPATIC DUPLEX SONOGRAPHY **NEW** (61 mins.)
PHILIP BENDICK, PHD, RVT, FSUSON; FSVTS I $99.00 | 1.25 AMA PRA Category 1 Credits™ ISBN # 1-954790-03-6

TOPICS:
- Acute Mesenteric Ischemia, Mortality, Data
- Normal Anatomy, Scan Protocols, Normal Abnormal Waveform Characteristics
- Diagnostic Criteria
- Portal Vein Pulsatility: Portal Vein Thrombosis
- TIPS Procedure

ULTRASOUND IMAGING FUNDAMENTALS: THE BASICS (65 mins.)
LORI GREEN, BA, RTR, RMD, RDS, RTV I $89.00 | 1.25 AMA PRA Category 1 Credits™ ISBN # 1-954790-03-6

TOPICS:
- Sound Generation & Basic Principles
- Transducers & Imaging Artifacts
- System Controls & Image Quality

ULTRASOUND EVALUATION OF RENAL ARTERY STENOSIS (67 mins.)
PHILIP BENDICK, PHD, RVT, FSUSON; FSVTS I $99.00 | 1.25 AMA PRA Category 1 Credits™ ISBN # 1-954790-03-6

TOPICS:
- Renal Anatomy, Vasculature, Stents, Renal Grafts, Stones, and Masses
- Scan Techniques: Direct & Indirect Approach
- Normal and Abnormal Doppler/Color Flow Characteristics of the Renal Vasculature
- Fibromuscular Dysplasia & Diagnostic Criteria for Diagnosing Renal Stenosis

VASCULAR ULTRASOUND BOOKS AND ACCESSORIES

INTRODUCTION TO VASCULAR ULTRASONOGRAPHY 6TH ED (704 pgs.)
JAISON PELLEGRINO, MD, & JOSEPH POLAK, MD, MPH I $149.00

TOPICS:
- A Concise Overview of Arterial & Venous Ultrasound

A PRACTICAL GUIDE TO TRANSCRANIAL DOPPLER EXAMINATIONS (168 pgs.)
MIRA KATZ, PHD, MPH, RTV I ANDREA ADAMCZAK, MD, RTV I $74.95

TOPICS:
- A Concise Reference Source of TCD Examinations

TECHNIQUES IN NONINVASIVE VASCULAR DIAGNOSIS - 4TH ED. (296 pgs.)
ROBERT DORSTEIN, BA, RVT, FSVTS I $99.95

TOPICS:
- A Concise Reference Source of Noninvasive Vascular Diagnosis

GULFCOAST ULTRASOUND CABLE BRACE (SIZE LARGE) $24.00
SE-822900 CABLE BRACE

DETAILS:
This unique product is to be used to hold and support the cable of ultrasound transducers, mornomitor instruments, and other cabled hand tools. This easy to use device takes the strain off the operator's hand and counterarma by the torque of the instrument during use. Fits up to 17".

CMEVITALS | MORE CME VITALS @ WWW.GCUS.COM

TO REGISTER OR TO PURCHASE PRODUCTS | 727.363.4500 | WWW.GCUS.COM
EMERGENCY MEDICINE/Critical Care
Anesthesiology & Pediatric CME

"I have renewed enthusiasm to return to the ER and incorporate ultrasound into daily practice." — John Russ, M.D.

"A real eye opener. I got out of this course exactly what I wanted and a little more." — Eric Hoff, D.O.

"Extremely well run operation. Superb facility. Subject matter experts giving the lectures [which are] blatantly applicable to taking good care of patients." — Brian Hall, M.D.

To register or to purchase products | 727.363.4500 | www.gcus.com
LIVE & VIRTUAL EMERGENCY MED. COURSE (LIVE LECTURES + HANDS-ON FOR LIVE ATTENDEES)

INTRODUCTION TO EMERGENCY MEDICINE

February 28-March 2, 2022
September 12-14, 2022
ER-221
ER-222

COURSE OBJECTIVES:
Upon completion of the program, the participant should be able to:

1. Increase participant’s knowledge to better perform and/or interpret the emergency ultrasound examinations.
2. State basic fundamentals of ultrasound physics and demonstrate appropriate optimization of system controls.
3. Perform ultrasound evaluation of the trauma patient (e-FAST exam) and pneumothorax.
4. Demonstrate scan protocols for focused evaluation of the abdomen, aorta, female pelvis and heart.
5. State an algorithm for uses of bedside ultrasound during cardiac arrest, shock and hypotension.
6. Demonstrate image orientation, transducer prep, and scan protocols for performing use of ultrasound guidance for vascular access, pericardiocenteisis, paracentesis, hemorthorax, lumbar puncture and ET placement.
7. Demonstrate protocol for focused evaluation of DVT.
8. Differentiate normal/abnormal image characteristics of the abdomen, female pelvis, first trimester OB, and ectopic pregnancy.
9. Increase competence to incorporate protocols, scan techniques, and interpretation criteria into clinical practice.

COURSE FEATURES & TOPICS:
- FAST & E-FAST
- OB/GYN Applications for the ER
- 3:1 Hands-On Scanning with Live Models
- Imaging & Needle Guidance Fundamentals
- Ultrasound-Guided Vascular Access & Procedures
- Focused 2D Cardiac Exam (F.A.T.E.)
- Biliary & Renal Colic, DVT Evaluation
- Ectopic Pregnancy, OB Cases & Abortion
- Abdominal Scanning Fundamentals
- Evaluation of Cardiac Arrest, Shock and Hypotension
- Pericardiocenteisis, Paracentesis, Hemorthorax Lumbar Puncture, ET
- Litetime Access to Digital Course Syllabus

WHO SHOULD ATTEND:
Physicians, sonographers, and any other medical professionals involved with performing emergency, and point of care ultrasound examinations who prefer a traditional Live Lecture with hands-on scanning format.

CME CREDITS & TUITION:

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ADVANCED REGISTRATION: $2315
REGULAR REGISTRATION: $2515

COMBINE WITH ADVANCED EM STARTING AT $4140

FACULTY:

JAMES MATEER, MD, RDMS
COURSE DIRECTOR
Physician
Waukesha Memorial Hospital
Clinical Professor
Dept. of Emergency Med. College
Waukesha, WI

ANDREW LAUBENBACH, MD
Hennepin Healthcare
Minneapolis, Minnesota

BRET P. NELSON, MD, RDMS, FAACEP
(February-March Only)
Director, Emergency Medicine Residency Program
Mount Sinai School of Medicine
Brooklyn, NY

LORI BRECK, BA, RT(R), RDMS, RCVS, RVT
Program Director
Gulfcoast Ultrasound Institute
St. Petersburg, FL

ALEXANDER LEVITOV, MD, FASER, FASOM, RDCS
Eastern VA Medical School
Dept. of Internal Medicine
Pulmonary & Critical Care Medicine
Norfolk, VA

DAVID BAHNER, MD, FAEM, FAACEP
(SEPT/MARCH ONLY)
Professor & Director of Ultrasound
Emergency Medicine
Ohio State University
Columbus, OH

SAVE! Combine with the Advanced Emergency & Critical Care Ultrasound Course & $AVE.
LIVE & VIRTUAL CRITICAL CARE COURSE
(LIVE LECTURES + HANDS-ON FOR LIVE ATTENDEES)

INTRODUCTION TO CRITICAL CARE
March 1-2, 2022
September 13-14, 2022
CCU-221
CCU-222

COURSE OBJECTIVES:
Upon completion of the program, the participant should be able to:
1. Increase participant's knowledge to better perform and/or interpret critical care ultrasound examinations.
2. State the basic fundamentals of ultrasound physics and demonstrate appropriate optimization of system controls.
4. Demonstrate image orientation, transducer placement, and scan protocols for performing ultrasound evaluation of pneumothorax.
5. Demonstrate scan protocols for focused evaluation of the abdomen, aorta, and adult heart, and lower extremity DVT.
6. Demonstrate image orientation, transducer preparation, and scan protocols for performing ultrasound guided vascular access.
7. Differentiate normal/abnormal image characteristics of the abdomen and adult heart.
9. Demonstrate protocols for performing thoracentesis, pericardiocentesis, paracentesis, and lumbar puncture.
10. Increase competence to incorporate protocols, scan techniques, and interpretation criteria into clinical practice.

COURSE FEATURES & TOPICS:
- Ultrasonic-Guided Vascular Access
- Abdominal Scanning Fundamentals
- Focused 2D Cardiac Exam (F.A.T.E.)
- FAST & EFAST Exams
- Biliary and Renal Colic
- Evaluation of Cardiac Arrest, Shock & Hypotension
- Evaluation of Shock & Hypotension
- AAA & Case Studies
- Pericardiocentesis, Paracentesis
- Ultrasound Guided Procedures for Critical Care
- Hemothorax, Lumbar Puncture, ET
- Evaluation of DVT
- FREE Online Video: Imaging Fundamentals

WHO SHOULD ATTEND:
Physicians, sonographers, and any other medical professionals involved with performing critical care and point of care ultrasound examinations who prefer a traditional live lecture with hands-on scanning format.

CME CREDITS & TUITION:

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This course meets CME/CEU requirements for ARDMS, APCA, ACEP & ABIM. Advanced registration payment needs to be paid in full 30 or more days prior to the course start date. $200 late fee if register 14 days or less of course start date. Combine with Advanced Emergency Medicine / Critical Care Course & Save!

FACULTY:
ALEXANDER LEVITUL, M.D., FAAP, FACOM, FIDSA
Eastern Virginia Medical School
Department of Internal Medicine
Division of Pulmonary & Critical Care Medicine
Norfolk, VA

JAMES MATEER, M.D., FIDSA
Physician
Waukesha Memorial Hospital
Clinical Professor
Dept. of Emergency Med. College
Waukesha, WI

ANDREW LAIDENBACH, M.D.
Hennepin Healthcare
Minneapolis, Minnesota

LORI GREEN, R.D., R.T.R.R., R.D.C.S., R.T.
Program Director
Gulfoast Ultrasound Institute
St. Petersburg, FL

DAVID BAINER, M.D., FIDSA, FASEP
(September Only)
Professor & Director of Ultrasound
Emergency Medicine
Ohio State University
Columbus, Ohio

BRET P. NELSON, M.D., FIDSA, FASEP
(February Only)
Director, Emergency Medicine Residency Program
Mount Sinai School of Medicine
Brooklyn, NY

SAVE! Combine with the Advanced Emergency Medicine and Critical Care Course & SAVE! SAVE!
LIVE EMERGENCY MEDICINE COURSE

ADVANCED EMERGENCY MEDICINE & CRITICAL CARE

COURSE OBJECTIVES:
1. Increase the participant’s knowledge to better perform and/or interpret Emergency Medicine and Critical Care Ultrasound Examinations.
2. Identify the sonographic characteristics associated with abdominal sepsis involving the hepatobiliary, renal, and GI systems.
3. Outline indications and applications of color Doppler in the emergency and critical care setting.
4. Perform ultrasound evaluation of the lung, ocular, soft tissue, musculoskeletal & bony cortices in the Emergency Department. (EM Track)
5. Demonstrate the use of ultrasound guidance for peripheral vascular access.
6. State principles of spectral & cardiac Doppler fundamentals and apply quantitative methods to evaluate acute valvar abnormalities. (Critical Care Track)
7. Recognize the sonographic appearance of individual nerves and list the advantages provided when ultrasound is used for performing regional nerve blocks. (EM Track)
8. Evaluate fluid responsiveness in the critically ill patient.
9. Perform testicular ultrasound and recognize acute abnormalities. (EM Track)
10. Increase confidence to incorporate protocols, scan techniques, and interpretations criteria to improve diagnostic/treatment accuracy.

COURSE FEATURES & TOPICS: (2 TRACK OPTIONS: EMERGENCY MEDICINE OR CRITICAL CARE)

- Sonography in Shock & Source of Sepsis
- Fluid Responsiveness in the Critically Ill
- Advanced Non-Cardiac Chest
- Interactive Cases: What's your DX?
- Ultrasound-Guided Peripheral Vascular Access
- Sonography of the Acute Scrotum (EM Track)
- Nerve Blocks in the ED (EM Track)
- Advanced EM Applications / Procedures
- Cardiac: Doppler & Focused Calculations Right Heart. (Critical Care Track)
- Echo Assessment of Cardiomyopathies & Heart & Heart Failure. (Critical Care Track)
- MI & Complications (Critical Care Track)
- Case/Scan Logs Available

WHO SHOULD ATTEND:
Physicians, sonographers, and any other medical professionals involved with performing advanced emergency and critical care ultrasound examinations who have attended an introductory level program or have at least 6 months of clinical experience. This is a traditional course with live lectures and hands-on scanning workshops.

CME CREDITS & TUITION:

|ama cat. i | 16.00 |
|abim moc | 16.00 |
|acep | 16.00 |

ADVANCED REGISTRATION $1870
REGULAR REGISTRATION $2070

STARTING AT $3695

This course meets CME/CEU requirements for AHDMUS, APCC, ACPE & ABIM. Advanced registration payment needs to be paid in full 30 or more days prior to the course start date. $200 late fee if register 14 days or less of course start date. Combine with Intro. to Emergency Medicine or Critical Care Course & Save!

FACULTY:

ALEXANDER LEVITOV, MD, FACIP, FACOM, RDMS
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Department of Internal Medicine
Div. of Pulmonary & Critical Care Medicine
Norfolk, VA

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Orlando Regional Medical Center
Orlando, FL

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Associate Professor of Emergency Medicine
Boston University School of Medicine
Boston, MA

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Clinical Professor for the Department of Emergency Medicine College
Waukesha, WI

ANDREW LAUDAENBACK, MD
Hennepin Healthcare
Minneapolis, Minnesota

TO REGISTER OR TO PURCHASE PRODUCTS | 727.363.4500 | WWW.GCUS.COM
**WHAT IS BLENDED EDUCATION?**

With the extreme demands of today’s medical professionals, Gulfcoast Ultrasound Institute can certainly understand that you may not have the flexibility in your schedule to attend one of our regularly scheduled live hands-on courses. In this case, you may be interested in our Blended Ultrasound Training Courses that combines one of our comprehensive Online Courses with a scanning skills workshop that features our industry leading 3:1 participant to faculty Hands-On Scan Workshops.

**WHY CHOOSE BLENDED EDUCATION?**

- 15 Months UNLIMITED Access to the Online Course.
- Same lectures from the comprehensive Live Courses.
- 1-Click accessible courses.
- Instant certificate generation upon completion.
- 3:1 (or less) scan ratios during the Hands-On Workshops.
- Original Blended/Hybrid Ultrasound Education Provider.
- Scan Logs and Case Logs are available upon request.
- Approachable expert faculty during Hands-On Workshops.
- Ultrasound Equipment from Multiple Leading Manufacturers.
- Immediately Implement Skills Learned into Clinical Practice.
- Expand Diagnostic & Interventional Services Offered.
- AMA PRA Category 1 Credit(s)™.
- ACCME Accredited with Commendation.

**POINT OF CARE ULTRASOUND COURSES**

- **Introduction to Emergency Medicine Ultrasound**
  June 16-17, 2022 | November 17-18, 2022
  Credits: 16.0 AMA Online Course - 12.0 AMA & ACEP Hands-On
  $2600 Early Bird Tuition | $2800 Regular Tuition

- **Introduction to Critical Care Ultrasound**
  June 16, 2022 | November 17, 2022
  Credits: 15.25 AMA Online Course - 8.0 AMA & ACEP Hands-On
  $1925 Early Tuition | $2125 Regular Tuition

- **Advanced Emergency Medicine & Critical Care Ultrasound**
  June 17, 2022 | November 18, 2022
  Credits: 19.00 AMA Online Course - 6.0 AMA & ACEP Hands-On
  $1950 Early Tuition | $2150 Regular Tuition

- **Trauma & Acute Care Ultrasound**
  June 17, 2022 | November 18, 2022
  Credits: 8.50 AMA Online Course - 5.0 AMA & ACEP Hands-On
  $1695 Early Tuition | $1895 Regular Tuition

- **Ultrasound-Guided Vascular Access**
  June 16, 2022 | November 17, 2022
  Credits: 4.25 AMA Online Course - 3.0 AMA & ACEP Hands-On
  $1285 Early Tuition | $1585 Regular Tuition

- **Ultrasound-Guided Regional Anesthesia**
  April 8, 2022
  Credits: 6.50 AMA Online Course - 3.0 AMA Hands-On
  $1585 Early Tuition | $1785 Regular Tuition

- **Point of Care Ultrasound for COVID-19**
  June 16, 2022 | November 17, 2022
  Credits: 8.5 AMA Online Course - 12.0 AMA & ACEP Hands-On
  $1925 Early Bird Tuition | $2125 Regular Tuition

- **Pre-Hospital Ultrasound**
  June 16, 2022 | November 17, 2022
  Credits: 11.25 AMA Online Course - 6.0 AMA & ACEP Hands-On
  $1950 Early Tuition | $2150 Regular Tuition

- **Introduction & Advanced Emergency Medicine Ultrasound**
  June 16-17, 2022 | November 17-18, 2022
  Credits: 35.0 AMA Online Course - 12.0 AMA & ACEP Hands-On
  $4330 Early Tuition | $4530 Regular Tuition

- **Introduction & Advanced Critical Care Ultrasound**
  June 16-17, 2022 | November 17-18, 2022
  Credits: 34.25 AMA Online Course - 12.0 AMA & ACEP Hands-On
  $3830 Early Tuition | $4030 Regular Tuition
# POINT OF CARE ULTRASOUND PRODUCTS

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<td>$500.00</td>
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POINT OF CARE ULTRASOUND PRODUCTS

INTRO TO EM & CRITICAL CARE U/S | DVD COURSE PACK $1,477

INTRODUCTION TO OB SONOGRAPHY: THE FIRST TRIMESTER
(Salvatore La Russo, MD) DVD or ONLINE 1.25 AMA PRA Category 1 Credits™ ISBN 978-1-945749-61-2

TOCIPICS:
- Embryology, Indications for Study Gestational Sac, Yolk Sac, Embryo
- Age Determination, Multiple Gestation, Polyhydramnios, Anomalies and Chorionicity
- Placenta, CRL, Landmarks, Heart Rate, Bleeding, Ectopic, Complications
- Hydraliform Mole, Abnormal (Absent) Saco

ABDOMINAL SCANNING FUNDAMENTALS
(Salvatore La Russo, MD; Frank Papadopoulos, MD; Frank Papadopoulos, MD) DVD or ONLINE 1.25 AMA PRA Category 1 Credits™ ISBN 978-1-945749-61-2

TOCIPICS:
- Primary Abdominal Landmarks
- Scan Orientation
- Normal anatomical structures
- Abdominal Vascular Access

ULTRASOUND GUIDED VASCULAR ACCESS
(Andreas Benz, MD, FASEP; Richard J. Papadopulos, MD; Frank Papadopoulos, MD) DVD or ONLINE 3.0 AMA PRA Category 1 Credits™ ISBN 978-1-945749-41-4

TOCIPICS:
- Fundamentals of US-Guided Vascular Access
- Ultrasound Guided Vascular Access
- Peripheral Vessel Access
- Femoral Access
- DSA, Subclavian & Femoral
- Femoral Ven Access

ULTRASOUND EVALUATION OF THE ABDOMINAL AORTA
(Salvatore La Russo, MD; Frank Papadopoulos, MD; Frank Papadopoulos, MD) DVD or ONLINE 1.0 AMA PRA Category 1 Credits™ ISBN 978-1-945749-67-5

TOCIPICS:
- Purpose of Abdominal Aorta Sonography
- Branches & Scan Techniques
- Routine Protocols, Measurements & Pathology

ULTRASOUND IMAGING FUNDAMENTALS: THE BASICS
(Lori Green BA, RT(R), RDMS, RDCS) DVD or ONLINE 1.5 AMA PRA Category 1 Credits™ ISBN 978-1-945749-42-7

TOCIPICS:
- Sound Generation & Basic Principles
- Transducers & Imaging Artifacts
- System Controls & Image Quality

VENOUS ULTRASOUND FOR POINT OF CARE
(Lori Green BA, RT(R), RDMS, RDCS) DVD or ONLINE 1.0 AMA PRA Category 1 Credits™ ISBN 978-1-945749-73-1

TOCIPICS:
- Venous Anatomy & Baker's Cyst
- Complete vs. Focused Exams
- Transducer Selection / Patient Position
- Complete vs. Sonographic DVT

CASES IN TRAUMA ULTRASOUND
(Charlotte Lee GRN, MD; FASEP; Frank Papadopoulos, MD) DVD or ONLINE 1.25 AMA PRA Category 1 Credits™ ISBN 978-1-945749-17-0

TOCIPICS:
- Bladder Trauma
- Spinal Injury
- Pericardial Effusion
- Pneumothorax
- Hemorrhage
- Traumatic Tendon Injury
- Fractures & Shoulder Dislocation
- Head Injury with Visual Loss

ADVANCED EM & CRITICAL CARE U/S | DVD COURSE PACK $678

ADVANCED ULTRASOUND GUIDED PROCEDURES
(Charlotte Lee GRN, MD; FASEP) DVD or ONLINE 1.25 AMA PRA Category 1 Credits™ ISBN 978-1-945749-73-5

TOCIPICS:
- Foreign Body Localisation & Removal
- Ultrasonography: Abcess Localization
- Evaluation of the Orbit
- Evaluation of Tendon Injury
- Evaluation of Joint Effusion

ULTRASOUND EVALUATION OF THE APPENDIX & OVARIT
(Charlotte Lee GRN, MD; FASEP) DVD or ONLINE 1.0 AMA PRA Category 1 Credits™ ISBN 978-1-945749-41-5

TOCIPICS:
- US Evaluation of the Ovary
- US Evaluation of Infertility
- US Evaluation of the Appendix
- US Evaluation of Endometriosis
- US Evaluation of Colon Disease

ULTRASOUND CASES IN EMERGENCY ULTRASOUND
(Charlotte Lee GRN, MD; FASEP) DVD or ONLINE 1.50 AMA PRA Category 1 Credits™ ISBN 978-1-945749-91-9

TOCIPICS:
- Spectrum of Cholecystitis
- Acute Appendicitis, Pelvic
- Emphysematous Pyelonephritis
- Diabetic Ulcer
- Endocarditis

FACEDDVD or ONLINE 1.25 AMA PRA Category 1 Credits™ ISBN 978-1-945749-91-9

TOCIPICS:
- Congestive Heart Failure
- Pneumothorax
- Endocarditis
- Hypertrophic Pyloric Stenosis
- Spleen Gland Duct Stone

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TOCIPICS:
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TOCIPICS:
- Spectrum of Cholecystitis
- Acute Appendicitis, Pelvic
- Emphysematous Pyelonephritis
- Diabetic Ulcer
- Endocarditis

THORACIC ULTRASOUND: BASIC & ADVANCED TECHNIQUES
(Brett Nelson, MD; FASEP) DVD or ONLINE 1.25 AMA PRA Category 1 Credits™ ISBN 978-1-945749-67-5

TOCIPICS:
- Lung Imaging Principles
- Pneumothorax
- Pulmonary Edema
- Lung Consolidation
- Normal Lung
- A & B Lines
- Pleural Effusion: CT/HR-CT/CT

ULTRASOUND GUIDED UPPER EXTREMITY NERVE BLOCKS FOR EMERGENCY MEDICINE
(Charlotte Lee GRN, MD; FASEP) DVD or ONLINE 1.25 AMA PRA Category 1 Credits™ ISBN 978-1-945749-81-9

TOCIPICS:
- Overview
- Indications & Applications
- Nerve Localization
- Nerve Blocks
- Ultrasound-Guided Upper Extremity Nerve Blocks

ULTRASOUND GUIDED LOWER EXTREMITY NERVE BLOCKS FOR EMERGENCY MEDICINE
(Charlotte Lee GRN, MD; FASEP) DVD or ONLINE 1.25 AMA PRA Category 1 Credits™ ISBN 978-1-945749-91-9

TOCIPICS:
- Overview
- Indications & Applications
- Nerve Localization
- Nerve Blocks
- Ultrasound-Guided Lower Extremity Nerve Blocks

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""It was a very beneficial course for me, and will assist me with patient management and arriving more quickly at a diagnostic critical decision.""

JOHN MABAYOJE, M.D.

""Great hands-on course on abdominal scanning. The staff were amazingly knowledgeable & courteous. Thank you.""

SHELDON RIKLON, M.D.

""One of many [study activities] I have done with Gulfcoast Ultrasound Institute, and all have been great. I couldn't even imagine going elsewhere.""

HAROLD YOUNG, M.D.
LIVE & VIRTUAL ABDOMINAL & PRIMARY CARE COURSE
(LIVE LECTURES + HANDS-ON FOR LIVE ATTENDEES)

INTRO TO ABDOMINAL & PRIMARY CARE ULTRASOUND
October 24-26, 2022  A-221

COURSE OBJECTIVES: Upon completion of the program, the participant should be able to:

1. Increase participant’s knowledge to better perform and/or interpret abdominal ultrasound examinations.
2. Demonstrate proper transducer manipulation and system optimization to produce diagnostic images.
3. Perform scan protocols and routine measurements that are utilized during an abdominal ultrasound evaluation.
4. Identify normal/abnormal imaging characteristics of the liver, gallbladder, pancreas, spleen, kidneys and abdominal vasculature.
5. Cite Doppler/color physics principles and be able to (sonographers) apply these principles to optimize system controls or (physicians) utilize this information for identifying technical errors which may result in misdiagnosis (optional lecture).
6. Demonstrate routine examination protocols associated with the ultrasound evaluation of renal artery stenosis (optional lecture).
7. Differentiate normal/abnormal characteristics for the evaluation of the thyroid, testes/scrotum, and appendix.
8. Perform ultrasound evaluation of the trauma patient (E-FAST Exam).
9. Demonstrate the use of ultrasound for evaluation of soft-tissue pathology.
10. Increase confidence to incorporate protocols, scan techniques and interpretation criteria to improve diagnostic/treatment accuracy.

COURSE TOPICS:

- Imaging Fundamentals
- Abdominal Anatomy/Scan Techniques
- Abdominal Aorta
- Liver Sonography & Pathology
- Gallbladder & Billary Tree
- Spleen, Pancreas and Renal Sonography
- Scrotal/Testicular Ultrasound
- Appendix and GI Tract
- Thyroid Ultrasound
- Soft Tissue & MSK Applications
- E-FAST Exam
- Interactive Case Studies

WHO SHOULD ATTEND:
Physicians, sonographers and other medical professionals learning how to perform abdominal sonography who prefer a traditional live lectures with hands-on scanning format. Also, physicians who are at an entry level of interpreting examinations. Physician participants may include (but are not limited to) those involved with: internal medicine, emergency medicine, family practice, gastroenterology, and urology.

CME CREDITS & TUITION:

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<td>This course meets CME/CEU requirements for ARDMS, APCA, ACEP &amp; ABIM. Advanced registration payment needs to be paid in full 30 or more days prior to the course start date. $200 late fee if register 14 days or less of course start date. Combine with the OB/GYN Course and Save!</td>
<td></td>
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</tbody>
</table>

FACULTY:

EMILY DOWNS, BS, RDMS, RVT, RDMS, AT
Program Director
Diagnostic Medical Sonography Program of Denver
Denver, CO

CHARLOTTE DERR, MD, RDMS, FACEP
Associate Program Director
Emergency Ultrasound Director
Assistant Professor, USF Emergency Medicine
Tampa, FL

LORDI GREEN, BA, RTRP, RDMS, RDCS
Program Director
Gulfcoast Ultrasound Institute
St. Petersburg, FL

TRISHA REDH, RDMS, RVT
Program Coordinator
Gulfcoast Ultrasound Institute
St. Petersburg, FL

SAVE! Combine with the Introduction to OB/GYN Ultrasound Course & SAVE!SAVE!
LIVE WOMEN’S HEALTH COURSE  (LIVE LECTURES + HANDS-ON)

INTRODUCTION TO OB/GYN ULTRASOUND  

COURSE OBJECTIVES: Upon completion of the program, the participant should be able to:
1. Increase the participants’ knowledge to better perform and/or interpret gynecology and obstetrical ultrasound examinations.
2. Demonstrate proper transducer manipulation and system optimization to produce diagnostic images.
3. Demonstrate routine scan protocols for performing transabdominal & endovaginal GYN scanning.
4. Outline routine scan protocols for performing 1st, 2nd, & 3rd trimester obstetric ultrasound exams.
5. State the normal and abnormal imaging characteristics of the ovaries and uterus and differentiate commonly seen pathology.
6. List the indications and ultrasound findings for suspicion of an ectopic pregnancy.
7. Identify normal fetal anatomy and perform biophysical profile.
8. Apply appropriate measurement techniques to assess fetal dates & appropriate fetal development.
9. Recognize commonly seen fetal abnormalities and their corresponding ultrasound imaging characteristics.
10. Increase confidence to incorporate protocols, scan techniques, and interpretation criteria to improve diagnostic/treatment accuracy.

COURSE FEATURES & TOPICS:
- Imaging Fundamentals
- Fetal Survey & Biometry
- Scan Protocol (TAS and TVS)
- First Trimester Ultrasound
- GYN Anatomy & Pathology
- Placenta, Cervix, BPP & Twins
- Lifetime Access to Digital Course Syllabus
- Industry Leading Hands-On 3:1 Scan Ratio
- Fetal Abnormalities
- Case Studies
- Case/Scan Logs Available
- 3:1 Scan Ratio with Live Models (OB & GYN)

WHO SHOULD ATTEND:
Sonographers and other medical professionals involved in performing OB/GYN ultrasound exams. Physicians at an entry level of interpreting and performing OB/GYN exams. Physician participants may include (but are not limited to) those involved with OB/GYN, family practice, and emergency medicine. Nurse practitioners, Physician Assistants, and midwives may also attend.

CME CREDITS & TUITION:

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FACULTY:

EMILY DOWNS, BS, RDMS, RVT, ARDMS, RT
Program Director
Diagnostic Medical Sonography Program
of Denver
Denver, CO

AHMED M. AL-MALK, M.S.
Director, Fetal Diagnostic Center of Orlando
Orlando, FL

JANE BURNS, BS, RT, RDMS
Perinatal/Education Sonographer
DmsPro.LLC
St. Joseph, MN

"I ENJOYED USING THE TRANSPONDERS. I ALSO LIKED THE TESTS IN THE OB/GYN BOOK TO TEST THE INFO WE LEARNED IN THAT SECTION. THIS IS A GREAT PROGRAM." CRISTAL SENE, RT(UD)

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# Abdominal/Primary Care Ultrasound Products

## Intro to Abdominal Ultrasound | DVD Course Pack $830

Optional: 13.25 AMA PRA Category 1 Credits™ CP-ABD

### Ultrasound Imaging Fundamentals: The Basics (60 mins.)

**Lori Green, BA, RT(R), MDS, RDMS, RVT**

- Sound Generation & Basic Principles
- Transducers & Imaging Artifacts
- System Controls & Image Quality

**Topics:**
- Liver Anatomy
- Iliac Segments
- Pleural & Ligaments
- Liver/Gallbladder Scan Protocols
- Spleen Anatomy/Physiology

**New DVD or Online: 1.25 AMA PRA Category 1 Credits™** ISBN # 1-932749-47-6

### Normal Liver, Gallbladder, Biliary Tree & Spleen Sonography (60 mins.)

**Salvatore Labusso, MED, FOMS, FARM, RT(R)**

**Topics:**
- Liver Anatomy
- Portal-Hepatic Veins/Ligamenta
- Liver/Gallbladder Scan Protocols
- Spleen Anatomy/Physiology

**New DVD or Online: 2.0 AMA PRA Category 1 Credits™** ISBN # 1-932749-67-4

### Ultrason Evaluation of the Liver, Gallbladder & Biliary Tree Pathology (60 mins.)

**Salvatore Labusso, MED, FOMS, FARM, RT(R)**

**Topics:**
- US Eval of the Liver including: Fatty Infiltration, Acute & Chronic Hepatitis, Cirrhosis, Cysts, Abscesses, Heterotopia, Tumor, Metastatic disease, HCC, & Portal Hypertension
- US Eval of the Gallbladder & Biliary Tree: Gallbladder Sludge, Cholelithiasis, Choledocholithiasis, Sphincter of Oddi Dysfunction, Pancreatitis, Ascites, RARE Disease, Cholecystitis & Cholelithiasis

**New DVD or Online: 2.0 AMA PRA Category 1 Credits™** ISBN # 1-932749-75-9

### Renal Ultrasound Imaging (60 mins.)

**Salvatore Labusso, MED, FOMS, FARM, RT(R)**

- Renal Anatomy/Physiology
- Renal Scan Techniques
- Renal Varicities & Medical Renal Disease
- Renal Pathology: Cystic Disease, Medullary Sponge Kidney, Benign & Malignant Masses, Hydronephrosis & Calculi/Spinal

**New DVD or Online: 1.5 AMA PRA Category 1 Credits™** ISBN # 1-932749-86-1

### Abdomen & Retropertitoneum Ultrasound Protocol Manual

**Lori Green, BA, RT(R), MDS, RDMS, FARM, RVT**

**Topics:**
- Instrumentation & Indications
- Ultrasound & Sonography
- Examination of the Retropertitoneal Region
- Documentation
- Patient Preparation
- Scanning Techniques
- Scanning Planes
- Complete Abdominal Exam
- Patient Education
- Past Exam in Trauma

**New DVD or Online: 2.0 AMA PRA Category 1 Credits™** ISBN # 1-932749-60-6

### Abdominal Scanning Fundamentals: New (60 mins.)

**Lori Green, BA, RT(R), MDS, RDMS, RVT**

- Primary Abdominal Anatomy Overview, Landmarks & Orientation
- Scan Orientation: Longitudinal & Transverse, & Coronal Views & Patient Positioning
- Normal & Abnormal Vascular & Sonographic Characteristics
- Abdominal Vascular Access: Orientation & Scan Techniques
- Normal Measurement Values

**New DVD or Online: 1.25 AMA PRA Category 1 Credits™** ISBN # 1-932749-72-8

### Ultrasound Evaluation of the Pancreas

**Salvatore Labusso, MED, FOMS, FARM, RT(R)**

**Topics:**
- Pancreas Anatomy/Physiology
- Normal Pancreatic Sonographic Characteristics
- Ultrasound of Commonly Seen Pancreatic Pathology
- Pancreatic Venous Landmarks
- Gastroenteropancreatic Pelvis: Ultrasound of the Pancreas

**New DVD or Online: 1.5 AMA PRA Category 1 Credits™** ISBN # 1-932749-87-0

### Ultrasound Imaging of the Abdominal Aorta

- Lori Green, BA, RT(R), MDS, RDMS, FARM, RVT

**Topics:**
- Purpose of Abdominal Aorta Sonography
- Primary Branches
- Scan Techniques
- Routine Protocols & Measurements
- Pathology

### Ultrasound Evaluation of the Appendix & GI Tract (45 mins.)

**Charlotte Calkin, MD, FARM, FACG, FACP**

**Topics:**
- US Evaluation of the Appendix
- US Evaluation of Intussusception
- US Evaluation of Small Bowel Obstruction
- Neutrophilic Enterocolitis
- US Evaluation of Chronic's Disease
- Diverticulitis
- Pneumatosis Coli

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INTRO TO OB/GYN | DVD COURSE PACK | $920

Optional: 17,25 AMA PRA Category 1 Credits™ CP-OB

GYNECOLOGICAL ULTRASOUND PROTOCOL MANUAL 2ND ED.
BRIAN SCHERER, M.D., F.A.A.R.O.M., R. V. T. | $359.95

PM GYNS BOOKLET+ONLINE 2.0 AMA PRA Category 1 Credits™ ISBN #1-9350073-4-3

TOPICS:
- Full Bladder (Transabdominal)
- Endovaginal
- Overview of Standard Measurements Included in Routine Exams

OBSTETRICAL ULTRASOUND PROTOCOL MANUAL WITH ONLINE VIDEO DEMO **NEW**
JILL BETTHORN, R.T(R) M.S., R.D.S. R.V.T. | $699.95

PM OB BOOKLET+ONLINE 2.0 AMA PRA Category 1 Credits™ ISBN #1-9350073-5-1

TOPICS:
- Coding & Reimbursement Information
- 2nd & 3rd Trimester Ultrasound Protocols
- Obstetric Exam Procedure
- First Trimester Ultrasound Protocol

INTRODUCTION TO GYNECOLOGICAL SONOGRAPHY (130 mins.)
SALVATORE LARUSI, M.D., F.A.A.R.O.M., F.A.U.R.C.T. | $399.00

CD/VIDEO OR ONLINE 2.0 AMA PRA Category 1 Credits™ ISBN #1-9350073-6-9

TOPICS:
- Scanning Techniques/Protocols for Transabdominal & Transvaginal Exams
- GYN Anatomy Overview & Ultrasound Positioning
- Normal GYN Anatomic Sonographic Appearance

GYNECOLOGICAL ULTRASOUND (60 mins.)
SALVATORE LARUSI, M.D., F.A.A.R.O.M., F.A.U.R.C.T. | $389.00

GYN DVD or ONLINE 1.5 AMA PRA Category 1 Credits™ ISBN #1-9350073-7-7

TOPICS:
- Gynecological Pathology
- Myometrial Abnormalities
- Cervical Lesions
- Uterine Varscoids & Vagina
- Uterine Enlargement

OB SURVEY: THE 2ND & 3RD TRIMESTER (110 mins.)
JANE BURNS, AS, R.T. R.R.M. | $299.00

CD/VIDEO OR ONLINE 1.5 AMA PRA Category 1 Credits™ ISBN #1-9350073-8-5

TOPICS:
- Obstetric Ultrasound Imaging
- Fetal Biometry
- Identifying Fetal Number
- Biophysical Profile Examination
- Presence of Cardiac Activity
- Double Screen & Quad Screen

OB DOPPLER: HOW, WHY, AND WHERE? (55 mins.)
JANE BURNS, AS, R.T. R.R.M. | $599.00

CD/VIDEO OR ONLINE 1.5 AMA PRA Category 1 Credits™ ISBN #1-9350073-9-2

TOPICS:
- Indications & Applications
- Doppler Measurements
- Doppler Waveform Analysis
- Doppler Evaluations
- Doppler Assessment Factors

ULTRASOUND EVALUATION OF PELVIC PAIN (60 mins.)
SALVATORE LARUSI, M.D., F.A.A.R.O.M., F.A.U.R.C.T. | $299.00

ULTRASOUND DVD or ONLINE 1.5 AMA PRA Category 1 Credits™ ISBN #1-9350073-8-5

TOPICS:
- Ultrasound Ultrasound Evaluation of True Emergencies
- Ultrasound Evaluation of Pelvic Pathology that requires treatment
- Ultrasound Evaluation of Pelvic Pain that requires treatment
- Sonography of Arroyo Pain

DOPPLER EVALUATION OF THE FETAL HEART (60 mins.)
JILL BETTHORN, R.T(R) M.S., R.D.S. R.V.T. | $999.00

CD/VIDEO or ONLINE 1.0 AMA PRA Category 1 Credits™ ISBN #1-9350073-6-9

TOPICS:
- Anatomy & Electrophysiology
- Mechanical PR Interval
- Color & Spectral Doppler
- TDI Index
- Valvular Regurgitation

FETAL ABDOMINAL ANOMALIES (45 mins.)
JANE BURNS, AS, R.T. R.R.M. | $359.00

DVD or ONLINE 1.0 AMA PRA Category 1 Credits™ ISBN #1-9350073-7-7

TOPICS:
- Electrocardiogram
- Fetal Anomalies
- Renal & Urinary Anomalies
- Gastrointestinal Anomalies

SELECTED TOPICS:
- Echocardiography
- Fetal Abnormalities
- Liver Abnormalities
- Fetal Abscess

ULTRASOUND IMAGING FUNDAMENTALS: THE BASICS (60 mins.)
LORI GREEN, L.A. R.T(R) M.S., R.D.S. R.V.T. | $399.00

CD/VIDEO or ONLINE 1.25 AMA PRA Category 1 Credits™ ISBN #1-9350073-6-9

TOPICS:
- Sound Generation & Basic Principles
- Transducers & Imaging Artifacts
- System Controls & Image Quality

INTRODUCTION TO OB SONOGRAPHY: THE FIRST TRIMESTER (60 mins.)
SALVATORE LARUSI, M.D., F.A.A.R.O.M., F.A.U.R.C.T. | $399.00

CD/VIDEO or ONLINE 1.25 AMA PRA Category 1 Credits™ ISBN #1-9350073-6-9

TOPICS:
- Embryology, Indications for Study: Gestational Sac, Yolk Sac, Embryo
- Age Determination: Multiple Gestation, Pregnancy, Anomalies & Chromosomal
- Placenta, CRL, landmarks, Heart Rate, Bleeding, Edema, Complications
- Hydralotiform Mole, Abnormalities: Superlac

FETAL ANOMALIES (130 mins.)
ANNIE ALI MALLIA, M.D. | $399.00

CD/VIDEO or ONLINE 1.5 AMA PRA Category 1 Credits™ ISBN #1-9350073-6-9

TOPICS:
- Normal Variants
- Skeletal Dysplasia
- Central Nervous System
- Fetal Extremities
- Fetal Extremities: Anomalies Associated with Anomaly

INTERESTING OB CASES AND TWIN GESTATION **NEW** (105 mins.)
JANE BURNS, AS, R.T. R.R.M. | $399.00

CD/VIDEO or ONLINE 1.5 AMA PRA Category 1 Credits™ ISBN #1-9350073-7-7

TOPICS:
- Umbilical Vein Variants
- Posterior Urethral Valves
- Limb Body Wall Complcte
- Congenital Heart Anomalies
- Cardiac Lesions
- Right Atrial Mass
- Klinefelter Syndrome
- Persistent Right Umbilical Vscoid
- Twin Reversal Arterial Perfusion

FETAL HEART APPLICATIONS & ADDITIONAL TOPICS IN WOMEN'S HEALTH

FETAL HEART SCREENING PROTOCOL MANUAL W/ ONLINE VIDEO DEMO
JILL BETTHORN, R.T(R) M.S., R.D.S. R.V.T. | $399.95

PM FHS BOOKLET+ONLINE 2.0 AMA PRA Category 1 Credits™ ISBN #1-9350073-4-3

TOPICS:
- Determine Risks
- 4 Chamber View
- Left Ventricular Outflow Tract
- Right Ventricular Outflow Tract

OB DOPPLER: HOW, WHY, AND WHERE? (55 mins.)
JANE BURNS, AS, R.T. R.R.M. | $999.00

PM OB BOOKLET+ONLINE 1.5 AMA PRA Category 1 Credits™ ISBN #1-9350073-9-2

TOPICS:
- Indications & Applications
- Doppler Measurements
- Doppler Waveform Analysis
- Doppler Evaluations

ULTRASOUND EVALUATION FOR PELVIC PAIN (60 mins.)
SALVATORE LARUSI, M.D., F.A.A.R.O.M., F.A.U.R.C.T. | $299.00

ULTRASOUND DVD or ONLINE 1.5 AMA PRA Category 1 Credits™ ISBN #1-9350073-8-5

TOPICS:
- Ultrasound Evaluation of True Emergencies
- Ultrasound Evaluation of Pelvic Pathology that requires treatment
- Ultrasound Evaluation of Pelvic Pain that requires treatment
- Sonography of Arroyo Pain

DOPPLER EVALUATION OF THE FETAL HEART (60 mins.)
JILL BETTHORN, R.T(R) M.S., R.D.S. R.V.T. | $999.00

CD/VIDEO or ONLINE 1.0 AMA PRA Category 1 Credits™ ISBN #1-9350073-6-9

TOPICS:
- Anatomy & Electrophysiology
- Mechanical PR Interval
- Color & Spectral Doppler
- TDI Index
- Valvular Regurgitation

FETAL ABDOMINAL ANOMALIES (45 mins.)
JANE BURNS, AS, R.T. R.R.M. | $359.00

DVD or ONLINE 1.0 AMA PRA Category 1 Credits™ ISBN #1-9350073-6-9

TOPICS:
- Electrocardiogram
- Fetal Anomalies
- Renal & Urinary Anomalies
- Gastrointestinal Anomalies

SELECTED TOPICS:
- Echocardiography
- Fetal Abnormalities
- Liver Abnormalities
- Fetal Abscess

FETAL HEART CASE STUDIES (55 mins.)
JANE BURNS, AS, R.T. R.R.M. | $399.00

CD/VIDEO or ONLINE 1.0 AMA PRA Category 1 Credits™ ISBN #1-9350073-8-5

TOPICS:
- Electrocardiogram
- Hypoplastic Right Heart
- Tetralogy of Falot
- Echocardiographic Focus
- VSD & ASD
- Cardiac Masses
- Hypoplastic Left Heart

GENETIC SCREENING IN THE 1ST & 2ND TRIMESTER (55 mins.)
JANE BURNS, AS, R.T. R.R.M. | $399.00

CD/VIDEO or ONLINE 1.5 AMA PRA Category 1 Credits™ ISBN #1-9350073-9-2

TOPICS:
- Reason for Ultrasound Genetic Screening
- Components of a Genetic Screening Sonogram
- Nuchal Translucency Screen
- Features of Trigidropy
- Targeted vs Standard Ultrasound Scan (AICM Guidelines)
- Major & Minor Markers to identify
- Features of Down Syndrome, Edwards, Patau, Turner’s Syndrome
- Abnormal Cases: e.g. Cystic Hygroma, OPC, Ventricularseparation, etc.

BREAST PROTOCOL MANUAL
JILL BETTHORN, R.T(R) M.S., R.D.S. R.V.T. | $359.95

PM/BMT BOOKLET+ONLINE 2.0 AMA PRA Category 1 Credits™ ISBN #1-9350073-7-7

TOPICS:
- Purpose & Indications
- Physical Assessment
- Equipment Modifications
- Anatomy & Exam Procedures

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ULTRASOUND IMAGING FUNDAMENTALS: THE BASICS (60 mins.)
Lori Green, BA, RT(T), RDS, RVT | $189.00
15012 DVD or ONLINE 1.25 AMA PRA Category 1 Credit™ ISBN: 978-1-945749-14-7

TOPICS:
• Sound Generation & Basic Principles
• Transducers & Imaging Artifacts
• System Controls & Image Quality

ULTRASOUND EVALUATION OF THE THYROID
Salvatore LaRusso, MD, RDS, FARM, FACUS
15013 DVD or ONLINE 1.25 AMA PRA Category 1 Credit™ ISBN: 978-1-945749-14-7

TOPICS:
• Thyroid & Parathyroid Anatomy/Physiology
• Thyroid Scan Protocols, Normal Thyroid Ultrasonographic Characteristics
• Ultrasonic Evaluation of the Thyroid Pathology, Goiter, Hyperplasia, Cyst, Adenoma, Carcinoma, Hashimoto’s Disease, Graves Disease & Hyperparathyroidism

THYROID PATHOLOGY & ULTRASOUND-GUIDED INTERVENTION (60 mins.)
Jennifer Sporns, MD | $189.00
15014 DVD or ONLINE 1.25 AMA PRA Category 1 Credit™ ISBN: 978-1-945749-15-4

TOPICS:
• Ultrasonic Characteristics of Benign & Suspicious Thyroid Nodules
• Ultrasonic Evaluation of the Neck in Patients with Thyroid Cancer for Identification of Recurrent/Residual Disease
• Available interventions for Ultrasound of the Neck Including the Various Ultrasonoguided Fine Needle Aspiration Techniques

INTRODUCTION TO PRIMAR CARE ULTRASOUND (12 MONTHS ACCESS)

MIDWIFE SONOGRAPHY CERTIFICATE REVIEW
Salvatore LaRusso, MD, RDS, FARM, FACUS
15015 ONLINE COURSE 18.60 AMA PRA Category 1 Credit™ $125.00

TOPICS:
• GYN Anatomy & Physiology, Congenital Abnormalities
• Transabdominal & Transvaginal Exam
• Gynecological Pathology
• First Trimester Obstetrics
• 2nd & 3rd Trimesters Multiple Ultrasound Evaluations
• Essentials of Diagnostic Ultrasound
• Pulse Echo Instrumentation
• Transducers, Image Controls, Artifacts & Quality Assurance / Safety

INTRODUCTION TO THYROID ULTRASOUND **NEW**
Jennifer Sporns, MD | $140.00
15016 ONLINE COURSE 6.00 AMA PRA Category 1 Credit™ $75.00

TOPICS:
• Cervical Ultrasound Fundamentals
• Thyroid Anatomy & Scan Techniques
• Evaluation of Thyroid Nodules
• Evaluation of Diffuse Thyroid Disorders

INTRODUCTION TO OB/GYN ULTRASOUND
Ahmed Al-Mallik, MD, FACUS
15017 ONLINE COURSE 12.25 AMA PRA Category 1 Credit™ $75.00

TOPICS:
• Introduction to OB Sonography: The Basic
• Introduction to OB Sonography: The First Trimester
• OB Fetal Survey, The 2nd & 3rd Trimesters
• OB Fetal Imaging: The 1st & 2nd Trimesters
• Fetal Anomalies
• Interesting OB Case Studies

INTRODUCTION TO OB/GYN SONOGRAPHY
Ahmed Al-Mallik, MD, FACUS
15018 ONLINE COURSE 12.25 AMA PRA Category 1 Credit™ $75.00

TOPICS:
• Ultrasound Imaging Fundamentals: The Basic
• OB Fetal Survey: 1st & 2nd Trimesters
• OB Fetal Survey: 3rd Trimester
• OB Fetal Imaging: 1st & 2nd Trimesters
• Fetal Anomalies
• Interesting OB Case Studies

ADVANCED OB/GYN ULTRASOUND APPLICATIONS
Salvatore LaRusso, MD, RDS, FARM, FACUS
15019 ONLINE COURSE 6.00 AMA PRA Category 1 Credit™ $75.00

TOPICS:
• Fetal Screening for the First and Second Trimesters
• Fetal Abdominal Vascular and Anomalies
• OB Doppler: Liver, V. & F. Work!
• OB Case Studies
• Ultrasound Evaluation of Pelvic Pain

UROLOGY ULTRASOUND
Salvatore LaRusso, MD, RDS, FARM, FACUS
15020 ONLINE COURSE 6.00 AMA PRA Category 1 Credit™ $75.00

TOPICS:
• Imaging Fundamentals
• Abdominal Sonography Anatomy
• Renal Anatomy
• Renal Pathology
• Urinary Bladder Evaluation
• Prostate Anatomy & Scan Techniques

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INTRODUCTION TO EMERGENCY MEDICINE ULTRASOUND
JAMES MATTER, MD, RFD, BRET NELSON, MD, RMD, FASEP
CHARLOTTE BEAR, MD, RMD, FACSEP, JON GREEN, BA, RT(T), FASEP, RVT
$700.00
OC-EMED101 ONLINE COURSE: 16.00 AMA PRA Category 1 Credits™

TOPICS:
- Ultrasound Imaging Fundamentals
- Emergency US for OR Conditions
- Emergency US for GYN Conditions
- Emergency US for Pediatrics
- Spontaneous Abortion
- Pelvic Inflammatory Disease & Masses
- Ultrasound-Guided Vascular Access
- Abdominal Scanning Fundamentals

INTRODUCTION TO EMERGENCY MEDICINE ULTRASOUND ONLINE COURSES (12 MONTHS ACCESS)

INTRODUCTION TO CRITICAL CARE ULTRASOUND (NEW!)
JAMES MATTER, MD, RFD, BRETT NELSON, MD, RMD, FASEP, JON GREEN, BA, RT(T), FASEP, RVT
CHARLOTTE BEAR, MD, RMD, FACSEP, ANDREW DEVITZ, MD, RMD, FACSEP
ALEXANDER LEVITOY, MD, FACSEP, FACU, RDS, RVT
$265.00
OC-CCS101 ONLINE COURSE: 18.25 AMA PRA Category 1 Credits™

TOPICS:
- Imaging Fundamentals
- Abdominal Scan Fundamentals
- US Evaluation of the Aorta
- Focused Assessment in Trauma
- Basic Lung Applications
- Advanced Lung Applications
- Ultrasound-Guided Vascular Access

TRAUMA & ACUTE CARE SONOGRAPHY (NEW!)
CHARLOTTE BEAR, MD, RMD, FACSEP, JON GREEN, BA, RT(T), RMD, FASEP, RVT
JAMES MATTER, MD, RMD, $147.00
OC-CCS101 ONLINE COURSE: 24.00 AMA PRA Category 1 Credits™

TOPICS:
- Imaging Fundamentals
- Abdominal Scan Fundamentals
- US Evaluation of the Aorta
- Focused Assessment in Trauma
- Basic Lung Applications
- Advanced Lung Applications
- Ultrasound-Guided Vascular Access

U/S-GUIDED NERVE BLOCKS FOR EMERGENCY MEDICINE (HOT ITEM!)
CHARLOTTE BEAR, MD, RMD, FACSEP, JON GREEN, BA, RT(T), RMD, FASEP, RVT
$125.00
OC-CCS101 ONLINE COURSE: 11.50 AMA PRA Category 1 Credits™

TOPICS:
- Imaging Fundamentals
- U/S-Guided Regional Anesthesia
- U/S-Guided Vascular Access in Trauma

STARTING A POINT-OF-CARE ULTRASOUND PROGRAM
DAVID RABE, MD, RMD, FACSEP, BRET NELSON, MD, RMD, FASEP, $245.00
OC-CCS101 ONLINE COURSE: 6.25 AMA PRA Category 1 Credits™

TOPICS:
- Director’s Job Description
- Financials of an Ultrasound Program
- Purchasing an Ultrasound System
- Fosters to Consider
- Evaluating Mechanism
- Image Archiving / Quality Assurance

EMERGENCY MEDICINE & CRITICAL CARE ULTRASOUND BOOKS

EMERGENCY ULTRASOUND 4TH ED (700 ggs.)
D. JOHN MA, MD, JAMES MATTER, MD, RMD, ROBERT REACTION, MD & SCOTT JONG, MD
$196.00

TOPICS:
- Clinical & Anatomical Considerations & Indications
- Case Studies, Techniques, Pitfalls, & Common Abnormalities
- Ultrasound Evaluation of the Head, Neck, Chest, Abdomen, Pelvis, and Musculoskeletal System

CRITICAL CARE ULTRASOUND 2ND ED (650 ggs.)
ALEXANDER LEVITOY, MD, FASEP, PAUL MAYO, MD, RFD
ANTHONY SLOMM, MD, RMD, FACSEP
$750.00

TOPICS:
- All-Inclusive Review of Optimal Use & Interpretation of Ultrasonographic Images in Every Critical Care Setting
- Ultrasound Principles & Evaluation of the Head, Chest, MSK & U/S-Guided Procedures

MANUAL OF EMERGENCY & CRITICAL CARE ULTRASOUND 2ND ED (594 ggs.)
BRET NELSON, MD, RMD, FACSEP, VICKI NOBLE, MD, RMD, FASEP
$87.95

TOPICS:
- Practical & Concise Introduction to Bedside Emergency Ultrasound
- The Full Spectrum & Diagnosis via Ultrasound
- Major Applications for Emergency Ultrasound by Using Focused Questions, Teaching Image Acquisition Skills, & Providing Tips for Improved Image Quality

TO REGISTER OR TO PURCHASE PRODUCTS | 727.363.4500 | WWW.GCUS.COM
VIRTUAL PHYSICS/SPI REGISTRY REVIEW COURSE (ONLINE ONLY)

SONOGRAPHY PRINCIPLES & INSTRUMENTATION (PHYSICS)  May 25, 2022  RRSP1-221VC

COURSE OBJECTIVES:  Upon completion of the program, the participant should be able to:

1. Increase the participant’s knowledge to better perform diagnostic ultrasound examinations.
2. State the elementary principles of ultrasound including definition of ultrasound, basic properties and units to measure.
3. Describe the fundamental principles of sound and the propagation of sound in soft-tissue.
4. Cite the different types transducers, focusing, sound beam formation and the various types of resolution including axial, lateral, contrast & temporal.
5. Recognize components and terminology of ultrasound equipment and instrumentation.
7. Differentiate imaging artifacts by their cause and characteristic appearance.
8. Apply statistical test correlation and test validation using CHF Square principles regarding sensitivity, specifically and overall test accuracy.
9. Outline safety, quality control, quality assurance and bioeffects concerns regarding operation and maintenance of ultrasound equipment.
10. Identify areas of weakness that require additional self-study to successfully pass the ultrasound board examination offered by ARDMS, CCI or ARRT.

COURSE FEATURES & TOPICS:

- Essentials of Diagnostic Ultrasound
- Physical Principles
- Transducers
- Imaging Principles & Instrumentation
- Doppler Instrumentation
- Mock Exam & Interactive Review of Results
- Lifetime Access to Digital Course Syllabus
- Personal Interaction with Experts
- Content Based on Registry Review Outlines

WHO SHOULD ATTEND:
The Physics Ultrasound Registry Review course is for: physicians, sonographers, as well as other medical professionals who are looking for a comprehensive Ultrasound Physics Review. This course is applicable to the ARDMS SPI exam or the physics portions of the ARRT, CCI, RPVI or RMSK exams. This course is taught by a leading expert in ultrasound physics and includes interactive lectures, case studies, and mock exams using an interactive Audience Response System. Online Course is approved for 8.00 AMA Credits. (GCUS PASS GUARANTEE! See Page 63 for details.)

CME CREDITS & TUITION:

AMA CAT. I  8.00  VIRTUAL COURSE TUITION  $320  ONLINE COURSE TUITION  $315

This course meets CME/CEU requirements for ARDMS.

FACULTY:

BRYAN ODDS, M.D., R.DMS, RVT, RTRP
Program Director
Diagnostic Medical Sonography
Gateway Community College
Phoenix, AZ

"DEFINITELY WORTH ATTENDING THIS COURSE. AN EXCELLENT TEACHING PROGRAM. IMPRESSED WITH THE PLEASANT ENVIRONMENT IN THE FACILITY."

HENRY S. SHIN, M.D.

"THANK YOU -- THE KNOWLEDGE I GAINED WAS INVALUABLE! COULDN'T BE BETTER. ANSWERED ALL MY QUESTIONS. I CAN'T WAIT TO TAKE & PASS THE REGISTRY."

EMILY FOX, B.S., R.DMS, RVT

BONUS!  All Attendees of this Course Receive 5 FREE Days of the On-Demand Online Registry Review and access to the GCUS Facebook Registry Review Study Group.

TO REGISTER OR TO PURCHASE CME PRODUCTS | 727.363.4500 | WWW.GCUS.COM
VIRTUAL VASCULAR REGISTRY REVIEW COURSE (ONLINE ONLY)

**VASCULAR ULTRASOUND**

**COURSE OBJECTIVES:** Upon completion of the program, the participant should be able to:

1. Increase participant's knowledge to better perform and/or interpret vascular ultrasound examinations.
2. Apply knowledge of the anatomy and physiology of the cerebral vascular circulation and upper and lower extremities to their respective ultrasound evaluations.
3. Outline routine scan protocols for cerebral vascular, upper and lower arterial and venous examinations, and abdominal Doppler.
4. Differentiate normal and abnormal imaging characteristics, Doppler waveforms, color findings & physiologic testing of the venous and arterial examinations.
5. Outline protocols, identify normal/abnormal characteristics disease associated with Duplex/Color evaluation of the abdominal vasculature.
6. Apply quality assurance and the relationship of specificity, sensitivity & overall accuracy of vascular ultrasound examination test validation.
7. Identify areas of weakness that require additional self-study to successfully pass your vascular ultrasound board examination. (RVT or RVS)

**COURSE FEATURES & TOPICS:**

- Arterial Anatomy/Peripheral Arterial
- Indirect & Direct Testing
- Quality Assurance
- Extracranial Cerebrovascular
- Test Procedures & Instrumentation
- Correlative Imaging & Treatment
- Intracranial Cerebrovascular
- Transcranial Doppler & Imaging
- Abdominal Arterial & Venous
- Venous Anatomy/Peripheral Venous
- Interactive Mock Exams & Interactive Reviews
- Content Based on Latest Registry Outlines

**WHO SHOULD ATTEND:**
The Vascular Ultrasound Registry Review course is designed for sonographers, physicians and other medical professionals preparing to take the ARDMS (RVT) or CCI (RVS) Vascular Ultrasound board examination and/or looking to strengthen their competence within vascular ultrasound.

*CCI registrants should also complete the Gulf Coast Ultrasound Physics/Sonography Principles & Instrumentation/SPI Registry Review for the most complete exam preparation. Online Course is approved for 16.25 AMA Credits. (GCUS PASS GUARANTEE: See Page 63 for details.)*

**CME CREDITS & TUITION:**

| AMA CAT. I | 16.00 | VIRTUAL COURSE TUITION | $425 | ONLINE COURSE TUITION | $395 |

This course meets CME/CEU requirements for ARDMS, APCA & CCI.

**FACULTY:**

MARSHA HELMYER, BS, RVT, RDMS, SSA, FAUM
CEO, International Director
Vascular Diagnostic Educational Services & Vascular Resource Associates
Harrisburg, PA

**“IT IS NO EXAGGERATION TO SAY THIS COURSE EXPERIENCE WAS TRANSFORMATIVE—BOTH PROFESSIONALLY AND PERSONALLY. THIS COURSE WILL LONG REMAIN A HIGH POINT OF MY LIFE. THANKS AGAIN... I AM FEELING ENERGIZED AND EAGER TO SIT FOR MY BOARDS.”**

LEE ANN ADAMS, BS, RDMS

**BONUS!** All Attendees of this Course Receive 5 FREE Days of the On-Demand Online Registry Review and access to the GCUS Facebook Registry Review Study Group.
LIVE & VIRTUAL MUSCULOSKELETAL REGISTRY REVIEW COURSE

MUSCULOSKELETAL ULTRASOUND (RMSK & RMSKS)  May 19-20, 2022  RRM-221

COURSE OBJECTIVES:  Upon completion of the program, the participant should be able to:

1. Increase knowledge to better perform and/or interpret musculoskeletal ultrasound examinations.
2. Outline appropriate transducer selection, system optimization, and identify commonly seen artifacts associated with musculoskeletal ultrasound.
4. Identify normal anatomy during musculoskeletal ultrasound imaging.
5. Recognize ultrasound characteristics of common seen pathology of the shoulder, knee, elbow, wrist/hand, ankle, foot and hip.
6. Outline the use of musculoskeletal sonography for diagnosis and treatment options, including ultrasound-guided interventions.
7. Integrate all patient & imaging data for effective analysis of examination results.
8. Identify areas that may require further study.
9. Increase knowledge & competence for successful registry examination completion.

COURSE FEATURES & TOPICS:

- Ultrasound Evaluation of the Shoulder
- Evaluation of Shoulder Pathology & Soft Tissue
- Ultrasound Evaluation of the Elbow
- Evaluation of Elbow Pathology & Soft Tissue
- Ultrasound Evaluation of the Hip
- Evaluation of Hip Pathology & Soft Tissue
- Ultrasound Evaluation of the Foot & Ankle
- Ultrasound Eval. of the Foot & Ankle Pathology
- Ultrasound Evaluation of the Hand & Wrist
- Ultrasound Eval. of the Hand & Wrist Pathology
- Ultrasound Evaluation of the Knee
- Ultrasound Eval. of the Knee Pathology + More

WHO SHOULD ATTEND:

The MSK Ultrasound Registry Review course is for medical professionals who are preparing to take the APCA or ARDMS musculoskeletal registry board exams or individuals who need a comprehensive review for professional improvement and/or CME credits. This course is taught by leading experts in the MSK ultrasound profession. (GCUS PASS GUARANTEE! See Page 63 for details.)

CME CREDITS & TUITION:  Can’t attend live? Watch online live and interact with the class with the Virtual Conference option.

<table>
<thead>
<tr>
<th>AMA CAT. I</th>
<th>16.00</th>
<th>This course meets CME/CEU requirements for ARDMS, APCA &amp; ABIM.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADVANCED TUITION</td>
<td>$1100</td>
<td>REGULAR TUITION</td>
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FACULTY:

JON JACOBSON, M.D., RMSK
Professor of Radiology
Director of MSK Ultrasound
U. of Michigan Medical Center
Ann Arbor, MI

“EVERYONE AT GULFCOAST WAS EXTREMELY HELPFUL IN MAKING ME FEEL CONFIDENT ABOUT PURSUING THE FIELD OF ULTRASOUND. THANKS.”

EDITH AGEE, PA-C

“WONDERFUL COURSE. FACULTY WERE VERY INFORMATIVE. ONE OF THE BEST ORGANIZED AND WELL PREPARED PROGRAMS I HAVE ATTENDED.”

ROBIN ARCENEAUX, RCS

BONUS! All Attendees of this Course Receive 5 FREE Days of the On-Demand Online Registry Review and access to the GCUS Facebook Registry Review Study Group.
LIVE & VIRTUAL RPVI REGISTRY REVIEW COURSE

VASCULAR INTERPRETATION & RPVI REGISTRY REVIEW

March 31 - April 1, 2022

COURSE OBJECTIVES: Upon completion of the program, the participant should be able to:

1. Increase the participant’s knowledge and competence to perform and interpret vascular ultrasound examinations.
2. Analyze Doppler/Color physics factors that affect optimal Doppler examinations and commonly seen Doppler/Color artifacts, which may affect diagnostic accuracy.
3. Recognize normal/abnormal imaging, spectral Doppler and Color Doppler findings seen with carotid and peripheral arterial and venous disease.
4. Cite the role of indirect testing in the evaluation of lower extremity arterial disease.
5. Apply diagnostic criteria for evaluation of carotid peripheral venous and arterial disease.
6. Interpret complex carotid and peripheral vascular case studies in an interactive interpretation session format.
7. Recognize ultrasound findings associated with aortic endograft leaks.
8. Differentiate normal & abnormal spectral Doppler characteristics associated with renal artery and dialysis access graft evaluations.
9. Integrate the key diagnostic elements into a structured report.
10. Increase confidence to incorporate protocols, techniques and diagnostic criteria to improve diagnostic/treatment accuracy.

COURSE FEATURES & TOPICS:

- Hemodynamic Principles & Fundamentals
- Abnormalities of Vertebrobasilar System & TCD
- Indirect Physiologic Studies
- Instrumentation: Transducers & Imaging
- Interactive Carotid & TCD Cases
- Arterial Duplex, Grafts & Intraoperative Duplex
- Normal and Abnormal Carotid Waveforms
- Abdominal Aorta and Aortic Endografts
- Arterial Assessment of Upper Extremities
- Integration of Data: Interpretation & Reporting
- Peripheral Arterial: Protocols and Disease Eval.
- Venous Insufficiency, Imaging & More

WHO SHOULD ATTEND:
The Vascular Ultrasound Interpretation and RPVI Review course is designed for physicians to improve their vascular interpretation skills and prepare to take the APCA Physician in Vascular Interpretation (RPVI) board exam. (GCUS PASS GUARANTEE!)

CME CREDITS & TUITION: Can’t attend live? Watch online live and interact with the class with the live webinar option.

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<th>AMA CAT. I</th>
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This course meets CME/CEU requirements for ARDMS. Advanced registration payment needs to be paid in full 30 or more days prior to the course start date.

FACULTY:

ROBERT ATWIP, MD, RVT, RPVI
Senior Vascular Surgeon
Medical Director
Vascular Laboratory
Penn State Heart & Vascular Inst.
Professor of Surgery Penn State
Hershey, PA

MARSHA RUDICKER, BS, RVT, FSDMS,
FSAF FASDMS
CEO, International Director
Vascular Diagnostic Educational
Services & Vascular Resource
Associates, Hamilton, PA

“This was the best course I have ever attended. Its very nature kept me involved and interested, whereas others, even really good ones, caused diminishing enthusiasm and interest. Everyone with whom I talked at the course expressed the same view.”

RANDY KENNEDY, MD

BONUS! All Attendees of this Course Receive 5 FREE Days of the On-Demand Online Registry Review and access to the GCUS Facebook Registry Review Study Group.

TO REGISTER OR TO PURCHASE PRODUCTS | 727.363.4500 | WWW.GCUS.COM
VIRTUAL CARDIAC REGISTRY REVIEW COURSE (ONLINE LECTURES ONLY)

ADULT ECHOCARDIOGRAPHY
February 11, 2022  RRC-221VC

COURSE OBJECTIVES: Upon completion of the program, the participant should be able to:

1. Increase the participant's knowledge to better perform and/or interpret cardiac ultrasound examinations.
2. Apply knowledge of the cardiac anatomy and corresponding cardiac physiology of the systemic & pulmonary circulation to perform routine scan protocols for adult echocardiography.
3. Differentiate normal and abnormal imaging characteristics of the adult cardiac ultrasound examination.
4. Cite commonly seen valvular pathology based upon their characteristic appearance and Doppler signature and/or quantitative diagnostic criteria.
5. Recognize cardiac pathology commonly diagnosed by echocardiography such as pericardial disease, Cardiomyopathies, CAD (ischemic disease), pulmonary hypertension & congenital heart disease.
6. Apply quality assurance and the relationship of specificity, sensitivity and overall accuracy of cardiac ultrasound examination test validation.
7. Define areas of weakness that require additional self-study to successfully pass your cardiac technology ultrasound board examination. (RDCS or RCS)

COURSE FEATURES & TOPICS:
- Applying the Physics of Ultrasound
- Preparing for the Echocardiographic Procedure
- Performing Echocardiographic Imaging
- Lifetime Access to Digital Course Syllabus
- Valvular Heart Disease; Two Parts
- Post Procedural Activities
- Ischemic Heart Disease & Cardiomyopathies
- Personal Interaction with Experts
- Pericardial Disease, Cardiac Tumors & Aortic Dissection
- Systemic & Pulmonary Hypertensive Heart Disease
- Congenital Heart Defects
- Lifetime Access to Digital Course Syllabus

WHO SHOULD ATTEND:
The Adult Echocardiography Registry Review course is designed for sonographers, physicians and other medical professionals preparing to take the ARDMS, or CCI Cardiac Sonographer Exams. *CCI participants should complete the Physics/SPI Review too. Online Course is approved for 10.0 AMA Credits. (GCUS PASS GUARANTEE! See Page 63 for details.)

CME CREDITS & TUITION: Can't attend live? Watch live online and interact with the class with the live webinar option.

|AMA CAT. 1| 8.75 | VIRTUAL COURSE TUITION | $325 | ONLINE COURSE TUITION | $315 |

This course meets CME/CEU requirements for ARDMS.

FACULTY:

CHRISTIE HILL JORDAN, BS, RDCS, RCI, RTR, FASE
Cardiovascular Technology Program Director.
Florida State College at Jacksonville.
Jacksonville, FL.

"OUTSTANDING, PROFESSIONAL AND HIGHLY EXPERIENCED INSTRUCTOR. SHE WILL WORK WITH YOU UNTIL YOU GET IT. AS A PHYSICIAN WHO ALSO TEACHES RESIDENTS, I NOW AM AHEAD OF MY TRAINEES IN ULTRASOUND KNOWLEDGE AND WILL RETURN HOME TO ‘SPREAD THE GOSPEL.”

BRUCE M. THOMPSON, MD.

BONUS! All Attendees of this Course Receive 5 FREE Days of the On-Demand Online Registry Review and access to the GCUS Facebook Registry Review Study Group.
# Registry Review Packages

Purchase individual items or entire study package to fit your CME needs. Upgrade to **Gold** and receive the online course. *(Available as print or online packages)*

## SPI (Physics) Registry Review
- **Physical Silver Package**: $236
- **Physical Gold Package**: $491

### Ultra P.A.S.S. Sonography Principles and Instrumentation Registry Review Workbook & Online Media
- Print: $129.95  
- Online: $109.95
- Mark: Swanson, AT(R), RDMS
- Lori Green, BA, RDMS, RDCS, RT(R), RDMS, RVT

### PAO-OL-1 SP2 Workbook/Online Media
- 17.00 AMA PRA Category 1 Credits ™ Optional
- (181 pages + Online Medical Center)
- Extra CME Processing Fee

## OB/GYN Registry Review
- **Physical Silver Package**: $236
- **Physical Gold Package**: $563

### Ultra P.A.S.S. OB/GYN Registry Review Workbook & Online Media
- Print: $129.95  
- Online: $109.95
- Jane Burns, AS, RT, RDMS
- Mark: Swanson, AT(R), RDMS
- PAO-OL-2 SP2 Workbook/Online Media
- 13.00 AMA PRA Category 1 Credits ™ Optional
- ISBN: 978-1-94579-57-9-4
- (300 pages + Online Medical Center)
- Extra CME Processing Fee

## Breast Registry Review
- **Physical Silver Package**: $236
- **Online Silver Package**: $209

### Ultra P.A.S.S. Breast Sonography Registry Review Workbook & Online Media
- Print: $129.95  
- Online: $109.95
- Trisha Red, RDMS, RVT
- Rhoda Salas, RDMS, RVT
- PAO-OL-2 SP2 Workbook/Online Media
- 13.00 AMA PRA Category 1 Credits ™ Optional
- (147 pages + Online Medical Center)
- Extra CME Processing Fee

## Abdominal Registry Review
- **Physical Silver Package**: $236
- **Physical Gold Package**: $559
- **Online Silver Package**: $209
- **Online Gold Package**: $533

### Ultra P.A.S.S. Abdominal Sonography Registry Review Workbook & Online Media
- Print: $129.95  
- Online: $109.96
- Lori Green, BA, RDMS, RDCS, RT(R)
- Trisha Red, BS, RDMS, RVT
- Mark: Swanson, AT(R), RDMS
- PAO-OL-2 SP2 Workbook/Online Media
- 17.00 AMA PRA Category 1 Credits ™ Optional
- (299 pages + Online Medical Center)
- Extra CME Processing Fee

### Ultra P.A.S.S. Abdominal Sonography Flashcards with Online Audio *NEW*
- Print: $75.00  
- Online: $47.00
- Lori Green, BA, RDMS, RDCS, RT(R)
- Mark: Swanson, AT(R), RDMS
- PAO-OL-2 SP2 Workbook/Online Media
- 12.00 AMA PRA Category 1 Credits ™ Optional
- ISBN: 978-1-950973-02-4
- (400 Questions, Online Audio Narration)
- Extra CME Processing Fee

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# Online Registry Review Courses

**Online Courses (12 Months Unlimited Access)**

*REGISTRY REVIEW GOLD PACKAGES
Receive 15% OFF Online Courses. See Page 58 & 59.*

## Physics (SPD)
- **900 AMA CME Category 1 Credits TM Optional**
  - Bryan Dodd, M.Ed., R.Dms, Rvt, Rti(r)
  - **OC-RMPV211** | $315.00

**TOPICS:**
- Essentials of Diagnostic Ultrasound
- Physical Principals
- Transducers
- Imaging Principles & Instrumentation Part 1
- Imaging Principles & Instrumentation Part 2
- Mock Exam 1
- Doppler Hemodynamics

## Vascular Technology
- **16.75 AMA CME Category 1 Credits TM Optional**
  - Marsha Neumyer, B.S., Rvt, Fsdms, Fsvu, Faum
  - **OC-RVVE211** | $355.00

**TOPICS:**
- Venous Anatomy, Physiology & Hemodynamics
- Venous Testing
- Arterial Anatomy, Physiology & Hemodynamics
- Arterial Testing - Physiologic Methods
- Arterial Testing - Color/Duplex Imaging
- Abdominal Vascular Testing
- Mechanisms of Disease
- Cerebrovascular Testing & Protocols

## Adult Echocardiography
- **10.00 AMA CME Category 1 Credits TM Optional**
  - Christie Hill, Jordan Es, Rocs, Rcs, Rcs, Fase
  - **OC-RCC201** | $350.00

**TOPICS:**
- Physics
- Preparing for the Procedure
- Performing the imaging
- Valvular Disease / Ischemic Disease
- Cardiomyopathies / Pericardial Disease
- Cardiac Tumors / Aortic Dissection
- Systemic & Pulmonary Hyperthermic Heart Disease
- Congenital Heart Defects
- Interactive Mock Exam & More

## Abdominal Ultrasound
- **44.50 AMA CME Category 1 Credits TM Optional**
  - Lori Green, B.A., Rtti(r), Roms, Rvt, Rocs, R, rt
  - **OC-RRA171** | $395.00

**TOPICS:**
- Abdominal Vascular
- Liver: Anatomy & Pathology
- Trauma Ultrasound
- Blunt Tree Anatomy/Physiology/Pathology
- Gallbladder Anatomy/Physiology/Pathology
- Renal Anatomy, Physiology & Pathology
- Superficial Structures: Thyroid & Sarpal
- Two Mock Examinations

## OB/GYN Ultrasound
- **16.75 AMA CME Category 1 Credits TM Optional**
  - Salvatore Larusso, M.D., Fdms, Faum
  - **OC-RRI181** | $400.00

**TOPICS:**
- Pelvic Anatomy & Physiology Eval
- Uterine Anomalies
- Gynecological Pathology
- Early Pregnancy
- Gestational Trophoblastic Disease
- 1st, 2nd, and 3rd Trimester OB
- Abnormal Carotid Waveform
- Abnormalities of Vertebrobasilar System & TCD
- U/G Eval. of Chromosomal Disorders
- U/S Eval. of Genitourinary
- U/S Eval. Abdominal Wall

## RPVI & Vascular Interpretation
- **20.50 AMA CME Category 1 Credits TM Optional**
  - Robert Atim, M.D., FvTT, RPVI
  - **OC-RPV211** | $975.00

**TOPICS:**
- Hemodynamic Principles
- Doppler Fundamentals
- Instrumentation
- Normal Carotid Anatomy & Waveforms
- Abnormal Carotid Waveform
- Abnormalities of Vertebrobasilar System & TCD
- Integration of Data
- Carotid and TCD Cases
- Abdominal Aorta and Aortic Endoarthritis
- Periperal Arterial
- Arterial Grafts and Intraoperative Duplex
- 100 Cases Included + More!

## Pediatric Ultrasound
- **16.75 AMA CME Category 1 Credits TM Optional**
  - Michael Hulse, D.O., M.S.
  - **OC-RPPI181** | $380.00

**TOPICS:**
- Pediatric Liver, Pancreas & Spleen
- Pancreas & Spleen Normal & Pathology
- Pediatric Genitourinary System
- Soft Tissue & MSK Abnormalities
- Pediatric Abdominal Case Studies
- Peripheral Vascular System & GI Tract
- Thyroid & Neck Sonography
- Neonatal Head Sonography & Pathology
- Neonatal Spine & Hip Sonography

## Midwife Sonography Certificate Review
- **18.50 AMA CME Category 1 Credits TM Optional**
  - Salvatore Larusso, M.D., Fdms, Faum
  - **OC-MWS311** | $390.00

**TOPICS:**
- FY/N Anatomy & Physiology
- Gynecological Pathology, Uterine
- Gynecological Pathology, Ovarian
- First Trimester OB: Parts 1, 2 & 3
- 2nd & 3rd Trimesters, U/G Eval. of the Brain
- U/S Eval. of the Placenta & Umbilical Cord
- U/S Eval. of the Amniotic Fluid
- U/S Eval. of Maternal / Fetal Complications
- Pulse Echo Instrumentation

## RMSKS Registry Review
- **16.00 AMA CME Category 1 Credits TM Optional**
  - Jon Jacobson, M.D., RMSK
  - **OC-RMI211** | $815.00 (SONOGRAPHER SPECIFIC)

**TOPICS:**
- Ultrasonography Evaluation of the Shoulder
- Ultrasonography Evaluation of the Elbow
- Ultrasonography Evaluation of the Hand/Wrist
- Ultrasonography Evaluation of the Foot/Ankle
- Ultrasonography Evaluation of the Hip/Knee
- Ultrasonography Evaluation of the Foot/Ankle
- U/S Guided Intervention & Treatment Options
- Pulse Echo Instrumentation
- U/S Guided Intervention & Treatment Options
- Complete Physics Registry Review Included

## RMSKS Registry Review
- **24.00 AMA CME Category 1 Credits TM Optional**
  - Jon Jacobson, M.D., RMSK
  - **OC-RMS211** | $115.00 (PHYSICIAN SPECIFIC / INCLUDES PHYSICS)

**TOPICS:**
- Ultrasonography Eval. of the Shoulder / Elbow
- Ultrasonography Eval. of the Hand/Wrist
- Ultrasonography Eval. of the Hip/Knee
- Ultrasonography Evaluation of the Foot/Ankle
- Ultrasonography Evaluation of the Foot/Ankle
- U/S Guided Intervention & Treatment Options - Complete Physics Registry Review Included
- U/S Eval. of Maternal / Fetal Complications

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<td>March 30–April 1</td>
<td>Vascular Interpretation &amp; RPVI Registry Review: 16.00 AMA PRA Category 1 Credits™</td>
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<td>April 25–29</td>
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<td>July 18–19</td>
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<td>Introduction to Peripheral Vascular Duplex/Color Flow Imaging: 8.00 AMA PRA Category 1 Credits™</td>
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<tr>
<td>October 24–26</td>
<td>Introduction to Abdominal and Primary Care Ultrasound: 12.00 AMA PRA Category 1 Credits™</td>
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<td>December 5–9</td>
<td>Introduction to Adult Echocardiography: 20.00 AMA PRA Category 1 Credits™</td>
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ULTRASOUND
REGISTRY REVIEW
COURSES AND MATERIALS

Hello... We are the experts for Registry Review!

In 1985, Gulfcoast Ultrasound Institute (GCUS Inc.) was established with the mission to provide an ultrasound continuing medical education platform to help medical professionals achieve their credentials and enhance their overall ultrasound knowledge. Today, a division of that mission is commonly referred to as registry review.

Founded
01 August 1985

Live Courses
07

Online Courses
11

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OUR COMMITMENT TO EXCELLENCE IN ULTRASOUND EDUCATION

Gulfcoast Ultrasound Institute is an established and trusted organization offering AMA PRA Category 1 Credits™ continuing medical education seminars, ultrasound registry review preparation materials, and self-directed study ad products for the diagnostic medical sonography profession. Since 1985, more than 140,000 sonographers, physicians, and other medical professionals have participated in our educational activities. Our faculty conducts extensive research to develop and identify the needs of the industry and provide innovative teaching methods for enhancing each participant’s level of knowledge and professional growth.

Our facility (Plaza Tower) is located in beautiful Downtown St. Petersburg, Florida. This convenient location is within a picturesque stroll from a number of area waterfront museums, restaurants, shops, hotels, and resorts. The Tower Plaza in Downtown St. Petersburg offers a variety of services, including gift shops, restaurants, bars, grocery/pharmacy, and sports complexes. In addition to the allure of a safe, waterfront downtown location, we are also located within an easy drive to many of Central Florida’s major attractions including: Busch Gardens®, Tampa Bay, Sea World Orlando®, Walt Disney World®, Disney’s Hollywood Studios®, Disney’s Animal Kingdom Universal Studios Florida®, Epcot®, Legoland®, Dinosaur World and many others.

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TERMS AND FINE PRINT

Confirmation: Upon receipt of the registration payment, a confirmation e-mail will be sent to you along with the arrival directions and class itinerary. For Florida programs, airline destinations should be made to Tampa International Airport (TPA). Meeting location is approximately a 25-minute drive. Lodging arrival suggested evening prior to program morning start.

Deadlines: Registration suggested at least 4-6 WEEKS PRIOR to program date. Since class enrollments are limited in size, advanced registration is advised. Registration is confirmed on a first-come, first-served basis of PAID TUTION IN FULL.

Advanced Rates are for early registration, and are accepted if registration payment is postmarked 30 days or more prior to the beginning date of the course. Any registration payments postmarked less than 30 days before the program MUST include the regular tuition rate. A $200.00 fee will be assessed to registrants enrolling 7 days prior to start of class. Please call if late payment or special arrangements need to be made. Personal checks are not accepted less than 2 weeks prior to course starting date.

Cancellation: A full registration refund will be offered if cancellation is received more than 30 days prior to a scheduled program. Registrations received 14-30 days prior to a program start date are non-refundable, and are limited to a one-time transfer restricted to the same person for the identical program on the Gulfcoast Ultrasound Institute schedule. A $100.00 transfer fee plus any change in program tuition will apply. No refunds or transfers will be allowed less than 14 days to a program start date. In the event a program or live webinar is re-scheduled or cancelled for any reason (including but not limited to acts of God, natural disasters, terrorism, or viral/bacterial outbreaks), paid attendees will be able to transfer to another equivalent program at no additional cost. Gulfcoast Ultrasound is not responsible for any travel and/or lodging reimbursements. Prices, schedules, and CME credits subject to change without notice. No transfers to On-Line custom programs allowed. Webinars are non-refundable after a participant logs in to watch the webinar.

Course Discount: A 5% discount on course registration applies to individuals from the same facility that register for the same course and date at the same time. No credit is given for a combination of one or more courses. Not available when attending combined courses. Cannot be combined with any other course discounts/offers. Call for details.

ADA: In accordance with our policy to meet requirements of The Americans with Disabilities Act (ADA), please note that the Program Manager at Gulfcoast Ultrasound Institute in writing at least 2 weeks prior to a scheduled program to request reasonable accommodations for a disability.

Tax Deduction: An income tax deduction may be allowed for educational expenses (including registration fees, travel, meals, lodging) undertaken to maintain and improve professional skills (see Treasury Regulation 1.162-5 Supp. E/Commissioner 2008 103918).

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Virtual Conference Refund Policy: A full refund will be available up to 7 days prior to the Virtual Conference. Course materials will be made available for download prior to the event, if it is verified the user has downloaded the materials, no refund will be available.

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FACULTY AND ACCREDITATIONS

2022 FACULTY

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All or a portion of this educational activity may meet the CME requirement for IAC Vascular Testing (or you would substitute IAC Echocardiography, etc., as applicable) accreditation.

ACEP Designation Statement:
Approved by the American College of Emergency Physicians for (*) hours of ACEP Category 1 credit(s).

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A special THANK YOU to the following members of our 2020 Q1 task force and advisory board:

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