

GSA Contract Holder
Contract GS-00F-103GA



GULFCOAST ULTRASOUND INSTITUTE

CONFIDENCE ♦ COMPETENCE ♦ PROVEN RESULTS

2022 CATALOG

ULTRASOUND CME DESIGNED FOR:

INDIVIDUALS, EDUCATORS, GROUPS & HOSPITALS

WWW.GCUS.COM | 727.363.4500



WHAT GULF COAST OFFERS:

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

INTRODUCTORY LEVEL COURSES: *(Live Hands-on, Online, or Blended.)*

- POINT-OF-CARE ULTRASOUND
 - ~ Emergency Medicine
 - ~ Trauma
 - ~ Critical Care
 - ~ Pediatrics
 - ~ Austere / Rural
 - ~ Pre-Hospital
- MUSCULOSKELETAL ULTRASOUND
- GENERAL/ABDOMINAL ULTRASOUND
- WOMEN'S HEALTH ULTRASOUND
 - ~ OB/GYN
 - ~ Breast
 - ~ Fetal Echo
- CARDIOVASCULAR ULTRASOUND
 - ~ Echocardiography
 - ~ Carotid
 - ~ Peripheral Vascular
 - ~ Transcranial Doppler

INTERMEDIATE/ADVANCED LEVEL: *(Live Hands-on, Online, or Blended.)*

- POINT-OF-CARE ULTRASOUND
 - ~ Emergency Medicine
 - ~ Nerve Blocks for EM
 - ~ Critical Care
 - ~ Regional Anesthesia
- MUSCULOSKELETAL ULTRASOUND
 - ~ Interventional MSK
 - ~ Regenerative Medicine
 - ~ Peripheral Nerve
- REGISTRY PREPARATION
 - ~ All Specialties

BLENDED 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
- EDUCATOR & MILITARY DISCOUNTS
- CME VITALS (Quick, Affordable, Online)
- PROTOCOL MANUALS *(w/ Online Demos.)*
- COMPREHENSIVE ONLINE COURSES
- ULTRASOUND ACCESSORIES/BOOKS

OUTSTANDING PERFORMANCE

- Quality education provider since 1985
- Over 160,000 medical professionals have received education through Gulfcoast 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

Our Mission

CONFIDENCE...

Diagnostic ultrasound is a technology driven, dynamically changing profession that requires continuous learning. With over 35 years of experience and an accredited leader in ultrasound education, you can trust *Gulfcoast Ultrasound Institute* to provide the knowledge, skills training, resources, and confidence needed to take your individual career, medical practice, or ultrasound department services to the next level.

COMPETENCE...

Using innovative teaching methodologies, *Gulfcoast Ultrasound Institute* is able to address the education needs for all levels of experience to be proficient to perform and/or interpret diagnostic ultrasound examinations for all specialty practices. All faculty are leading experts in the ultrasound profession who are actively involved with multiple professional societies, have authored numerous books and other publications, and many have contributed to the development of ultrasound practice guidelines.

The instructors' expertise, combined with our unique educational formats and the industry's lowest participant to instructor hands-on ratio enables you to have the competence to immediately integrate skills learned into your clinical practice.

PROVEN RESULTS...

Gulfcoast Ultrasound Institute has a comprehensive evaluation process that consistently reveals:

- 99.8% satisfaction rating for meeting or exceeding over-all educational objectives.
- Over 97% of our participants have indicated the skills learned improved their ability to diagnose/treat patients, enhanced their ability to provide additional diagnostic services, and provided improved confidence and competence to immediately integrate the skills learned into clinical practice.
- Over 98% of those using our ultrasound registry preparation resources passed their exam the first time.

Maximize the return on your investment and **experience the difference** in ultrasound education with *Gulfcoast Ultrasound Institute*!

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 8,000 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 GSA 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 lab 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

- ▶ INTRO TOPICS
- ▶ ADVANCED TOPICS
- ▶ HANDS-ON COURSES
- ▶ BLENDED COURSES
- ▶ DVDs
- ▶ ONLINE VIDEOS
- ▶ ONLINE COURSES
- ▶ REGISTRY REVIEW
- ▶ TEXTBOOKS

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

JOHN MCIVOR, 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

ECHOCARDIOGRAPHY

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
- ◆ Anatomy of the Heart and the EKG
- ◆ 2D Evaluation of Cardiac Anatomy
- ◆ 2D Measurements & Normal Values
- ◆ Lifetime Access to Digital Course Syllabus
- ◆ Color, Pulsed & Continuous Wave Doppler
- ◆ Mitral & Aortic Valves
- ◆ Cardiomyopathies
- ◆ Doppler Evaluation of MVD/AVD
- ◆ 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:

AMA CAT. I	40.00	ABIM MOC	40.00	This course meets CME/CEU requirements for ARDMS, CCI, APCA 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™.
ACEP	40.00	VIRTUAL COURSE TUITION	\$1575	
ADVANCED COURSE TUITION	\$2980	REGULAR COURSE TUITION	\$3180	

FACULTY:



STEVEN WALLING, BS, RDMS, RCS, FASE
Lead Echocardiographer
Saint Francis Care,
Hartford, CT



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



DIANE DEBICH-SPICER, PA (ASCP)
UF Dept. of Pediatric Cardiology
Pathologist's Assistant
Research Assistant
Gainesville, FL



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



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

BLEND ED ECHOCARDIOGRAPHY COURSE (ONLINE COURSE + HANDS-ON)

BLEND ED 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
- ◆ Intro to 2D/M-Mode Adult Echocardiography
- ◆ Introduction to Cardiac Doppler
- ◆ Cardiac Hemodynamics
- ◆ Mitral & Aortic Heart Disease
- ◆ Stress Echocardiography
- ◆ Right Heart Disease
- ◆ Pericardial Effusions & Cardiac Masses
- ◆ Cardiomyopathies & Diastolic Function
- ◆ Coronary Artery Disease
- ◆ Contrast Echocardiography

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

- ◆ (2) Full Days Scanning Sessions (No Lectures)
- ◆ 3:1 Participant to Instructor Scanning Ratio
- ◆ Log of Exams (Available)
- ◆ 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	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.
ADVANCED COURSE TUITION	\$2980	REGULAR COURSE TUITION	\$3180	

FACULTY:



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



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



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



CHRISTIE HILL JORDAN, BS, RDMS, RCS, RCIS, FASE
Cardiovascular Technology Program Director
Florida State College at Jacksonville
Jacksonville, FL

ECHOCARDIOGRAPHY ULTRASOUND PRODUCTS

INTRO TO ECHO ULTRASOUND | DVD COURSE PACK \$1,241

Optional: 20.00 AMA PRA
Category 1 Credits™

CP-ECD



CARDIAC ULTRASOUND PROTOCOL MANUAL WITH ONLINE VIDEO DEMO

LORI GREEN, BA, RT, RDMS, RDGS, RVT CHRISTIE JORDAN, BS, RDGS, RGS, RGS, FASE
INCLUDING 2D, M-MODE & DOPPLER ECHO | \$69.95 | ADD \$25.00 FOR CME QUIZ
PM-CAR3 BOOKLET+ONLINE 2.0 AMA PRA Category 1 Credits™ ISBN # 978-1-950973-08-8

TOPICS:
• Clinical Indications • 2D & M-Mode • Pulsed & CW Doppler Interrogation
• Normal Cardiac Windows • Color Flow Doppler • Doppler Quantification & More



INTRODUCTION TO 2D/M-MODE ADULT ECHOCARDIOGRAPHY (97 mins.)

CHRISTIE HILL JORDAN, BS, RDGS, RGS, RGS | \$129.00 | ADD \$25.00 FOR CME QUIZ
2DE DVD or ONLINE 2.0 AMA PRA Category 1 Credits™ ISBN # 978-1-945749-98-8

TOPICS:
• Indications & Sound Fundamentals
• Cardiac Anatomy / Electro-Physiology & Ergonomics
• 2D Views/Anatomy & Measurements
• M-Mode Characteristics & Scan Demonstrations



INTRODUCTION TO CARDIAC DOPPLER/COLOR FLOW IMAGING (87 mins.)

DANIEL BOURQUE, MS, RGS, FASE | \$129.00 | ADD \$25.00 FOR CME QUIZ
CDU2 DVD or ONLINE 2.0 AMA PRA Category 1 Credits™ ISBN # 978-1-945749-70-4

TOPICS:
• Indications for Cardiac Doppler • CW Verses PW Doppler
• Basic Spectral Doppler Concepts • Doppler Artifacts
• The Doppler Principle/Doppler Shift • Spectral Doppler Sample Sites
• Impact of Doppler Angle • Color Flow Imaging Fundamentals
• The Bernoulli Equation



ECHO EVALUATION OF MITRAL & AORTIC VALVE HEART DISEASE (64 mins.)

RICHARD PALMA, BS, RDGS, RGS, ACS, FASE, FSDMS | \$129.00 | ADD \$25.00 FOR CME QUIZ
EMAV2 DVD or ONLINE 2.0 AMA PRA Category 1 Credits™ ISBN # 978-1-950973-28-6

TOPICS:
• Mitral Valve Anatomy • Mitral Stenosis • Aortic Stenosis, Aortic Dissection
• MV Disease Classification • Case Studies • Aortic Regurgitation
• Mitral Valve Prolapse • Aortic Disease



DOPPLER EVALUATION OF MITRAL & AORTIC VALVE HEART DISEASE (130 mins.)

RICHARD PALMA, BS, RDGS, RGS, ACS, FASE, FSDMS | \$129.00 | ADD \$25.00 FOR CME QUIZ
DMAV2 DVD or ONLINE 2.50 AMA PRA Category 1 Credits™ ISBN # 978-1-950973-30-9

TOPICS:
• Mitral Stenosis / MV Direct Planimetry
• Grading Mitral Regurgitation
• MV Doppler Case Studies & Doppler Evaluation of Aortic Disease
• Aortic Outflow: LVOT Evaluation
• AV Direct Planimetry
• Aortic Doppler Case Studies



ECHOCARDIOGRAPHIC EVALUATION OF RIGHT HEART DISEASE (40 mins.)

RICHARD PALMA, BS, RDGS, RGS, ACS, FASE, FSDMS | \$99.00 | ADD \$25.00 FOR CME QUIZ
ERHD2 DVD or ONLINE 1.0 AMA PRA Category 1 Credits™ ISBN # 978-1-950973-36-1

TOPICS:
• RV Assessment
• Right Systolic Function
• RV Diastolic Function
• Right Atrium
• Tricuspid Valve Disease
• Hepatic Vein Evaluation
• Pulmonary Valve Disease



ECHO EVALUATION OF PERICARDIAL EFFUSIONS & CARDIAC MASSES (35 mins.)

RICHARD PALMA, BS, RDGS, RGS, ACS, FASE, FSDMS | \$99.00 | ADD \$25.00 FOR CME QUIZ
PECM2 DVD or ONLINE 1.0 AMA PRA Category 1 Credits™ ISBN # 978-1-950973-44-6

SELECT TOPICS:
• Differentiation of Pleural Vs Pericardial Fluid • Etiology of Pericardial Effusion
• Clinical Presentation w/ Pericardial Effusion • Echo Characteristics of Tamponade
• Size & Type of Pericardial Effusion • Benign & Malignant Tumors
• Echo Characteristics of Pericardial Effusion • Intracardiac Thrombi & More



ECHOCARDIOGRAPHIC EVALUATION OF CARDIOMYOPATHIES (44 mins.)

RICHARD PALMA, BS, RDGS, RGS, ACS, FASE, FSDMS | \$99.00 | ADD \$25.00 FOR CME QUIZ
CEC2 DVD or ONLINE 1.0 AMA PRA Category 1 Credits™ ISBN # 978-1-950973-27-9

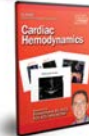
TOPICS:
• Hypertrophic Cardiomyopathy • Tako Tsubo
• Restrictive / Infiltrative Cardiomyopathy • Apical Balloon Syndrome:
• Dilated Cardiomyopathy • LV Non-Compaction
• Arrhythmic RV Cardiomyopathy • Clinical Case Studies



CONTRAST ECHOCARDIOGRAPHY (69 mins.)

DANIEL BOURQUE, MS, RGS, FASE | \$99.00 | ADD \$25.00 FOR CME QUIZ
CEC2 DVD or ONLINE 1.5 AMA PRA Category 1 Credits™ ISBN # 978-1-950973-47-7

TOPICS:
• Appropriate Indications • Methods of Administration
• Administration Techniques • Microbubble Behavior & System Optimization
• Contraindications to Contrast • Role of the Sonographer & Case Studies



CARDIAC HEMODYNAMICS (42 mins.)

RICHARD PALMA, BS, RDGS, RGS, ACS, FASE, FSDMS | \$99.00 | ADD \$25.00 FOR CME QUIZ
CAH2 DVD or ONLINE 1.0 AMA PRA Category 1 Credits™ ISBN # 978-1-950773-46-0

TOPICS:
• Echocardiographic Assessment
• Calculating Pressures within the Heart
• Technical Caveats for Hemodynamic Calculations & Case Studies



ULTRASOUND IMAGING FUNDAMENTALS: THE BASICS (65 mins.)

LORI GREEN, BA, RT, RDMS, RDGS, RVT | \$99.00 | ADD \$25.00 FOR CME QUIZ
IF3 DVD or ONLINE 1.25 AMA PRA Category 1 Credits™ ISBN # 978-1-945749-47-6

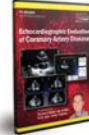
TOPICS:
• Sound Generation & Basic Principles • System Controls & Image Quality
• Transducers • Imaging Artifacts



ECHOCARDIOGRAPHIC EVAL. OF DIASTOLIC FUNCTION (43 mins.)

RICHARD PALMA, BS, RDGS, RGS, ACS, FASE, FSDMS | \$99.00 | ADD \$25.00 FOR CME QUIZ
IF3 DVD or ONLINE 1.5 AMA PRA Category 1 Credits™ ISBN # 978-1-950973-19-4

TOPICS:
• LV Diastolic Function • Doppler Acquisition During Valsalva Maneuver
• Classification of Diastolic Function • DTI and Sample Volume Positioning
• Doppler Tissue Imaging • TR Jet Limitations
• Effect of Valsalva Maneuver • Color M-Mode Velocity Propagation
• Pulmonary Vein Flow • Diastolic Stress Echo
• Grading LV Filling Pressures



ECHOCARDIOGRAPHIC EVAL. OF CORONARY ARTERY DISEASE (52 mins.)

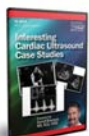
RICHARD PALMA, BS, RDGS, RGS, ACS, FASE, FSDMS | \$99.00 | ADD \$25.00 FOR CME QUIZ
ECAD2 DVD or ONLINE 1.25 AMA PRA Category 1 Credits™ ISBN # 978-1-950973-32-3

TOPICS:
• CAD & LV Function • LV Assessment: Cavity Size / Thickness
• Prevalence of CAD • Segmental Function / Contractility
• Perfusion Defects • Myocardial Performance Index / Case Studies

CARDIAC CASE STUDIES | DVD COURSE PACK \$357

Optional: 5.00 AMA PRA
Category 1 Credits™

CP-CCS



INTERESTING CARDIAC CASE STUDIES (56 mins.)

DANIEL BOURQUE, MS, RGS, FASE | \$99.00 | ADD \$25.00 FOR CME QUIZ
ICC2 DVD or ONLINE 1.25 AMA PRA Category 1 Credits™ ISBN # 978-1-950973-77-4

TOPICS:
• Aortic Stenosis & CAD/Thrombus • Coronary Stent Stenosis, Cardiac Arrest
• Cardiogenic Shock/Malignancy • Perforation Pericardial Effusion
• Infiltrative vs Hypertrophic Cardiomyopathy • Impact of Poly Substance Abuse



CHALLENGING ECHO CASE STUDIES (53 mins.)

RICHARD PALMA, BS, RDGS, RGS, ACS, FASE, FSDMS | \$99.00 | ADD \$25.00 FOR CME QUIZ
CECS DVD or ONLINE 1.25 AMA PRA Category 1 Credits™ ISBN # 978-1-945749-64-3

TOPICS:
• Atrial Fibrillation • Interventional Procedures • Takotsubo-Mid Ventricular Type
• Pulmonary Embolus • Congenital Disorders • Myocardial Infarction Complications
• Thrombus vs Mass • Coronary Artery Fistulas • LV Pseudoaneurysm



CARDIAC CASE STUDY SERIES: CARDIOMYOPATHIES (61 mins.)

DANIEL BOURQUE, MS, RGS, FASE | \$99.00 | ADD \$25.00 FOR CME QUIZ
CCMY DVD or ONLINE 1.5 AMA PRA Category 1 Credits™ ISBN # 978-1-945749-10-0

TOPICS:
• Etiology of Cardiomyopathies
• Dilated, Hypertrophic, Restrictive & ARVD Cardiomyopathies
• 6 Case Studies of Various Types of Cardiomyopathies



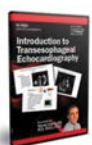
CARDIAC CASE STUDY SERIES: CARDIAC MASSES (45 mins.)

RICHARD PALMA, BS, RDGS, RGS, ACS, FASE, FSDMS | \$99.00 | ADD \$25.00 FOR CME QUIZ
CCCM DVD or ONLINE 1.0 AMA PRA Category 1 Credits™ ISBN # 978-1-940954-48-6

TOPICS:
• Primary Benign Tumors • Other Masses
• Non-Primary (Metastatic Tumors) • Normal Variants and Mimickers

ECHOCARDIOGRAPHY ULTRASOUND PRODUCTS

OTHER TOPICS IN ECHOCARDIOGRAPHY



INTRODUCTION TO TRANSESOPHAGEAL ECHOCARDIOGRAPHY **NEW** (54 mins.)

STEVEN WALLING, BS, RCS, RDMS, FASE | \$99.00 | ADD \$25.00 FOR CME QUIZ
TEE2 DVD or ONLINE 1.25 AMA PRA Category 1 Credits™ | ISBN # 978-1-950973-76-7

TOPICS:

- Training & Certification
- Types of Probes
- Indications & Complications
- Equipment
- Views / Complete Exam
- The Required Views & Reporting



STRESS ECHOCARDIOGRAPHY (69 mins.)

DANIEL BOURQUE, MS, RCS, FASE | \$99.00 | ADD \$25.00 FOR CME QUIZ
SE2 DVD or ONLINE 1.25 AMA PRA Category 1 Credits™ | ISBN # 978-1-950973-74-3

TOPICS:

- Benefits of & Diastolic Stress Echo
- Exercise Indications & Contraindications
- Dobutamine Indications & Contraindications
- Coronary Artery Territories
- Qualitative Regional Wall Motion
- Instrumentation, Image Acquisition



THE ATHLETE'S HEART AND SUDDEN CARDIAC DEATH (56 mins.)

RICHE PALMA, BS, RDMS, RCS, ACS, FASE, FSDMS | \$99.00 | ADD \$25.00 FOR CME QUIZ
AHSD DVD or ONLINE 1.25 AMA PRA Category 1 Credits™ | ISBN # 978-1-945749-06-3

TOPICS:

- The Athlete in Cardiovascular Medicine
- Exercise-Induced Cardiac Remodeling
- Health vs. Disease
- Sudden Cardiac Death in Young Athletes



ARRHYTHMIAS AND EKG: WHAT THE ECHOCARDIOGRAPHER NEEDS TO KNOW (41 mins.)

RICHE PALMA, BS, RDMS, RCS, ACS, FASE, FSDMS | \$99.00 | ADD \$25.00 FOR CME QUIZ
AEKG DVD or ONLINE 1.00 AMA PRA Category 1 Credits™ | ISBN # 978-1-945749-29-2

TOPICS:

- Importance of Understanding Arrhythmias and EKG for Echo Correlation
- EKG Timing and Voltage
- EKG Waveforms and Segments
- Identify Arrhythmias and EKG Abnormalities and Correlation with Echo
- Using EKG for Timing of Event with M-Mode



ULTRASOUND EVALUATION OF HEART FAILURE (58 mins.)

DANIEL BOURQUE, MS, RCS, FASE | \$99.00 | ADD \$25.00 FOR CME QUIZ
HF3 DVD or ONLINE 1.25 AMA PRA Category 1 Credits™ | ISBN # 978-1-950973-18-7

TOPICS:

- Classification of Heart Failure
- Common Causes and Types
- Measures of Diastolic Function
- Measures of Systolic Heart Failure
- Utilizing Stress Echo with Heart Failure
- Quantifications of Heart Disease
- Restrictive Cardiomyopathy
- Case Studies: Evaluation of Heart Failure



FOCUSED CARDIAC ULTRASOUND (57 mins.)

JAMES MATEER, MD, RDMS | \$99.00 | ADD \$25.00 FOR CME QUIZ
FCUS2 DVD or ONLINE 1.25 AMA PRA Category 1 Credits™ | ISBN # 978-1-945749-42-1

TOPICS:

- Focused Cardiac Ultrasound Indications
- Cardiac Sonographic Anatomy
- Standard Imaging Views
- Focused Cardiac Ultrasound Protocols
- Evaluation of LV Function
- Standard Cardiac Measurements
- Evaluation of Pericardial Effusion
- Volume Assessment
- Case Studies



3D ECHOCARDIOGRAPHY: A SIMPLIFIED APPROACH (53 mins.)

DAN BOURQUE, MS, RCS, FASE | \$99.00 | ADD \$25.00 FOR CME QUIZ
TDE2 DVD or ONLINE 1.50 AMA PRA Category 1 Credits™ | ISBN # 978-1-940954-95-0

TOPICS:

- Anatomy & Physiology of a Left Ventricular Volume
- Basic Interpretation of 3D Data
- Indications for 3D Volume Imaging
- Contra-Indications for 3D Volume Imaging
- Identifying Commonly seen Artifacts
- Live Demonstrations of 3D Volume Acquisitions

ECHOCARDIOGRAPHY ONLINE COURSES (12 MONTHS ACCESS)



INTRODUCTION TO ADULT ECHOCARDIOGRAPHY

DANIEL BOURQUE, MS, RCS, FASE | RICHARD PALMA, BS, RDMS, RCS, ACS, FASE, FSDMS
CHRISTIE JORDAN, BS, RDMS, RCS, FASE, RDMS & LORI GREEN, BA, RT, RDMS, RDMS, RVT
\$965.00 OC-ECD191 ONLINE COURSE 19.50 AMA PRA Category 1 Credits™ + \$125.00.

TOPICS:

- Ultrasound Imaging Fundamentals
- Intro. to 2D/M-Mode Adult Echo
- Intro. to Cardiac Doppler Ultrasound
- Stress Echocardiography
- Echo Eval. of Mitral & Aortic Heart Disease
- Doppler Eval. of Mitral & Aortic Heart Disease
- Echo Eval. of Pericardial Effusions & Cardiac Masses
- Echo Eval. of Cardiomyopathies
- Echo Eval. of Coronary Artery Disease
- Echo Eval. of Diastolic Function
- Contrast Echocardiography



FOCUSED ECHOCARDIOGRAPHY

JAMES MATEER, MD, RDMS | CHRISTIE JORDAN, BS, RDMS, RCS, ACS, FASE, FSDMS
LORI GREEN, BA, RT, RDMS, RDMS, RVT | DANIEL BOURQUE, MS, BS, RCS, FASE
RICHARD PALMA, BS, RDMS, RCS, ACS, FASE, FSDMS | \$600.00

OC-FECD201 ONLINE COURSE 11.50 AMA PRA Category 1 Credits™ + \$125.00.

TOPICS:

- Imaging Fundamentals of Echo
- Anatomy of the Heart & EKG
- 2D Eval. of Cardiac Anatomy - Part 1
- 2D Eval. of Cardiac Anatomy - Part 2
- M-Mode & 2D Measurements/Normal Values
- Intro to Cardiac Doppler U/S - Part 1
- Intro to Cardiac Doppler U/S - Part 2
- 2-D Color & Doppler Echo Protocol
- Live Demo 2D & Color Flow Doppler
- Pericardial Disease
- Cardiomyopathies & Heart Failure
- Coronary Artery Disease
- Shock & Hypotension
- Case Studies

ECHOCARDIOGRAPHY BOOKS + ECHO UPDATE



THE ECHOCARDIOGRAPHIC POCKET REFERENCE 4TH ED. (444 pgs.)

RICHARD PALMA, BS, RDMS, RCS, ACS, FASE, FSDMS | \$149.95 (NON-REFUNDABLE)
EPRS SPIRAL BOUND BOOK ISBN # 978-0-578-68717-9

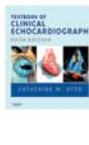
Since 1993, The Echocardiographer's Pocket Reference has been the primary reference for sonographers and students of Echocardiography. Now in its 5th edition, this textbook has been completely redesigned to allow for integrated learning. Entirely written by sonographers, 24 chapters of Echocardiographic knowledge are available at your fingertips. This edition has added four chapters, including anatomy and physiology in cardiac development, cardiac medications, instrumentation, and the comprehensive echo exam.



FOCUSED ECHO EXAM POCKET REFERENCE (15 pgs.)

THERESA JORGENSEN, RDMS, RDMS, RVT | \$14.95
PR-FEE SPIRAL BOUND BOOKLET

The Focused Echo Exam Pocket Reference review critical ultrasound anatomy, normal values, transducer positioning hints and common abnormal findings in a compact, simple, easy to use, pocket reference guide that fits in your lab coat or scrub pocket.



TEXTBOOK OF CLINICAL ECHOCARDIOGRAPHY 5TH ED. (576 pgs.)

CATHERINE OTTO, MD | \$179.00
TCH5 HARDCOVER BOOK ISBN # 978-1-4557-2857-2

Textbook of Clinical Echocardiography, 5th Edition enables you to use echocardiography to its fullest potential in your initial diagnosis, decision making, and clinical management of patients with a wide range of heart diseases. World-renowned cardiologist, Dr. Catherine M. Otto helps you master what you need to know.



ECHO UPDATE: ASE CHAMBER QUANTIFICATION GUIDELINES (76 mins.)

DANIEL BOURQUE, MS, BS, RCS, FASE | \$99.00 | ADD \$25.00 FOR CME QUIZ
OV-ASEG ONLINE VIDEO 1.50 AMA PRA Category 1 Credits™

TOPICS:

- LV Measurements
- Measurements of the Aorta
- Severity Classifications
- Inclusion of 3D and Strain Techniques
- Indexing of Measurements

CME VITALS



DOPPLER EVALUATION OF AORTIC STENOSIS

CHRISTIE JORDAN, BS, RDMS, RCS, FASE, RDMS | \$25.00
VIT-DAS CME VITAL 1.0 AMA PRA Category 1 Credits™



FOCUSED 2D CARDIAC VIEWS

LORI GREEN, BA, RT, RDMS, RDMS, RVT | \$25.00
VIT-F2DCV CME VITAL 2.0 AMA PRA Category 1 Credits™



ECHOCARDIOGRAPHIC EVALUATION OF DILATED CARDIOMYOPATHY

CHRISTIE JORDAN, BS, RDMS, RCS, FASE, RDMS | \$25.00
VIT-DC CME VITAL 1.0 AMA PRA Category 1 Credits™



ULTRASOUND EVALUATION OF AORTIC DISSECTION

LORI GREEN, BA, RT, RDMS, RDMS, RVT | \$25.00
VIT-AD CME VITAL 1.0 AMA PRA Category 1 Credits™

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.

- ▶ INTRO COURSES
- ▶ ADVANCED COURSES
- ▶ REGEN. MEDICINE
- ▶ CADAVER WORKSHOPS
- ▶ HANDS-ON TRAINING
- ▶ DVDs
- ▶ ONLINE VIDEOS
- ▶ ONLINE COURSES
- ▶ REGISTRY REVIEW
- ▶ TEXTBOOKS

“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.

MUSCULOSKELETAL

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

INTRODUCTION TO MSK ULTRASOUND

January 24-26, 2022
August 15-17, 2022

M-221
M-222

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

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 commonly seen pathology of the shoulder, knee, elbow, wrist/hand, ankle and foot.
7. Increase confidence to incorporate 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 principals 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, Chiropractics, Military, Rheumatology, Sports Medicine, Podiatry, Athletic Training, Orthopedics, Emergency Medicine, Radiology, Internal Medicine, and Family Practice. PAs & Physical Therapists are also encouraged to attend.

CME CREDITS & TUITION:

AMA CAT. I	20.00	This course meets CME/CEU requirements for ARDMS, APCA and ABIM.			
ABIM MOC	20.00	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.			
ADVANCED COURSE TUITION	\$2645	REGULAR COURSE TUITION	\$2845	ADV. TUITION + CADAVER LAB	\$4195
				REGULAR TUITION + CADAVER LAB	\$4395

FACULTY



JON JACOBSON, M.D., RMSK
Professor of Radiology
Director of MSK Division
University of Cincinnati
Cincinnati, OH



RALF THIELE, M.D.
Associate Professor of Med.
University of Rochester
Rochester, NY



CRAIG CHAPPELL, D.O., CAQSM, RMSK
Regenerative Medicine Specialist
In2it Medical
Orem, UT



PAUL LENTO, M.D., RMSK
Physical Medicine
Rehabilitation & Sports Medicine
Sarasota Orthopedic Associates
Sarasota, FL



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



STEVEN SOLIMAN, D.O., RMSK
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

ARM-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.
6. Outline new ultrasound-guided procedures for ligament and tendon injuries.
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
- ◆ Advanced Foot & Ankle Ultrasound
- ◆ Advanced Human Cadaver Lab Included
- ◆ Hands-On Scanning with Live Models
- ◆ Interactive Challenging 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:

AMA CAT. I	16.00	This course meets CME/CEU requirements for ARDMS, APCA and ABIM MOC. Combine & Save with the Intro. to MSK Ultrasound Course offering 36.00 ABIM MOC & AMA PRA Category 1 Credits™. Combine & Save with the Intro to MSK Ultrasound Course with Cadaver Workshop that offers 40.00 ABIM MOC & AMA PRA Category 1 Credits™.					
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, D.O.
Director, Training & Education
PMR Center
Washington, DC



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



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



TIMOTHY J. MAZZOLA, M.D., CAQSM, RMSK
Senior Clinical Instructor, CU Denver
Medical School
Boulder, CO



JOHN BROUSSARD, D.O., CAQSM
Co-Owner/Partner
Alliance Regen and Rehab
St. Petersburg, FL



TARIQ AWAN, D.O.
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

BLENDING MUSCULOSKELETAL COURSE (ONLINE COURSE + HANDS-ON)

BLENDING INTRODUCTION TO MSK ULTRASOUND

May 16-17, 2022

BMSO-221

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 Hip
- ◆ Ultrasound-Guided MSK Injection Techniques
- ◆ Downloadable / Printable Handouts

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

- ◆ (2) Full Days Scanning Sessions (No Lectures)
- ◆ 3:1 Participant to Instructor Scanning Ratio
- ◆ Log of Exams (if needed)
- ◆ 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:

AMA CATEGORY I ONLINE COURSE	16.50	ADVANCED REGISTRATION	\$2750	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.
AMA CATEGORY I SCAN WORKSHOP	12.00	REGULAR REGISTRATION	\$2950	
ABIM MOC SCAN WORKSHOP	12.00			

FACULTY:



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



PAUL LENTO, M.D., RMSK
Physical Medicine
Rehabilitation & Sports Medicine
Sarasota Orthopedic Associates
Sarasota, FL



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



TIMOTHY J. MAZZOLA, M.D., CAQSM, RMSK
Senior Clinical Instructor, CU Denver
Medical School
Boulder, CO



SHANE SHAPIRO, M.D., RMSK
Sports & Orthopedic Medicine
Mayo Medical School
Assistant Professor
Jacksonville, FL



RALF THIELE, M.D.
Associate Professor of Med.
University of Rochester
Rochester, NY

BLENDING MUSCULOSKELETAL COURSE (ONLINE COURSE + HANDS-ON)

BLENDING INTRO. TO MSK ULTRASOUND WITH CADAVER LAB May 16-17, 2022 BMSO-221

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 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 Hip
- ◆ Ultrasound-Guided MSK Injection Techniques
- ◆ Downloadable / Printable Handouts

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

- ◆ (2) Full Days Scanning Sessions (No Lectures)
- ◆ 3:1 Participant to Instructor Scanning Ratio
- ◆ Log of Exams (if needed)
- ◆ 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, 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.
AMA CATEGORY I SCAN WORKSHOP	16.00	REGULAR REGISTRATION	\$4445	
ABIM MOC SCAN WORKSHOP	16.00			

FACULTY:



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



PAUL LENTZ, M.D., RMSK
Physical Medicine
Rehabilitation & Sports Medicine
Sarasota Orthopedic Associates
Sarasota, FL



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



TIMOTHY J. MAZZOLA, M.D., CAQSM, RMSK
Senior Clinical Instructor, CU Denver
Medical School
Boulder, CO



SHANE SHAPIRO, M.D., RMSK
Sports & Orthopedic Medicine
Mayo Medical School
Assistant Professor
Jacksonville, FL



RALF THIELE, M.D.
Associate Professor of Med.
University of Rochester
Rochester, NY

BLENDED MUSCULOSKELETAL COURSE (ONLINE COURSE + HANDS-ON)

BLENDED PERIPHERAL NERVE ULTRASOUND

May 16-17, 2022

BPNU-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 focal 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
- ◆ U/S 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
- ◆ Scan Multiple Live Models Each Day
- ◆ 3:1 Participant to Instructor Scanning Ratio
- ◆ Extensive Personal Attention
- ◆ 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. NP's, PA's, Physical therapists, sonographers, and other medical professionals may attend.

CME CREDITS & TUITION:

AMA CATEGORY I ONLINE COURSE	15.25	ADVANCED COURSE TUITION	\$3895	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.
AMA CATEGORY I SCAN WORKSHOP	16.00	REGULAR COURSE TUITION	\$4095	

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



JEFF STRAKOWSKI, M.D. (COURSE DIRECTOR)
McConnell Spine, Sport
& Joint Physicians
Columbus, OH



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



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



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

MUSCULOSKELETAL ULTRASOUND PRODUCTS

INTRO TO MSK ULTRASOUND | DVD COURSE PACK \$1364

Optional: 19.75 AMA PRA
Category 1 Credits™

CP-MSK



MSK ULTRASOUND IMAGING FUNDAMENTALS (74 mins.)

LORI GREEN, BA, RT, RDMS, RDGS, RVT | \$99.00 | ADD \$25.00 FOR CME QUIZ
MSKIF2 DVD or ONLINE 1.5 AMA PRA Category 1 Credits™ ISBN # 978-1-945749-60-5

TOPICS:

- Sound Production & Image Generation
- Transducers & Image Resolution
- Image Orientation & Scanning Fundamentals
- Image Interpretation & U/S Terminology
- Normal MSK Anatomy Echo
- Optimizing System Controls
- Commonly Seen Image Artifacts



ULTRASOUND EVALUATION OF THE NORMAL SHOULDER (47 mins.)

CRAIG CHAPPELL, D.O., RMSK, CAQSM, RMSK | \$99.00 | ADD \$25.00 FOR CME QUIZ
MUSH2 DVD or ONLINE 1.25 AMA PRA Category 1 Credits™ ISBN # 978-1-950973-15-6

TOPICS:

- Shoulder Anatomy
- Probe Control
- Points of Contact
- Protocol
- Normal Ultrasound Characteristics of the Shoulder
- Minor Pathologies
- Live Scan Demonstration



ULTRASOUND EVALUATION OF THE NORMAL ELBOW (52 mins.)

PAUL LENTO, M.D., RMSK | \$99.00 | ADD \$25.00 FOR CME QUIZ
MNE DVD or ONLINE 1.25 AMA PRA Category 1 Credits™ ISBN # 978-1-945749-76-6

TOPICS:

- Anterior Elbow & Joints
- Pronator Window
- Distal Tendon
- Bicep Tendon
- Medial Elbow
- Common Flexor
- Ulnar Nerve
- Triceps
- Posterior Elbow
- Lateral Elbow
- Radial Collateral Ligament
- Radial Nerve
- Annular Ligament
- Elbow Scan Demonstration



ULTRASOUND EVALUATION OF THE NORMAL HAND & WRIST **NEW** (59 mins.)

RALF THIELE, M.D., RHMSUS | \$99.00 | ADD \$25.00 FOR CME QUIZ
MHW2 DVD or ONLINE 1.25 AMA PRA Category 1 Credits™ ISBN # 978-1-950973-14-9

TOPICS:

- Hand & Wrist Anatomy
- Probe Control
- Normal Characteristics
- Minor Pathologies
- Dorsal & Ulnar Wrist
- Radial & Volar Wrist
- MCP & PIP Joint
- Scan Demonstrations



ULTRASOUND EVALUATION OF THE HIP (56 mins.)

JON JACOBSON, M.D., RMSK | \$99.00 | ADD \$25.00 FOR CME QUIZ
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- Spondyloarthritis: Synovitis, Tenosynovitis, Peritendinitis, Enthesitis, Erosions, New Bone Formation
- Crystal Arthritis: Sonographic Features of Gout
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- Pulley Tears
- Trigger Finger
- Extensor Carpi Ulnaris
- Subluxation and Dislocation
- Carpal Tunnel Syndrome
- Guyon's Canal
- Wartenburg Syndrome
- Scapholunate Ligament Tear
- Extrinsic Dorsal Ligament Injury
- Gamekeeper Thumb
- Triangular Fibrocartilage (TFC)
- Scaphoid Fracture
- Common Pitfalls in Wrist/Hand
- Cysts & Masses
- Nerve Entrapment



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- Normal Ultrasound Characteristics for the Shoulder, Elbow, Hand/Wrist



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- Scan Techniques and Protocol for Evaluating the Knee
- Limitations and Pitfalls Associated with the Ultrasound Evaluation of the Knee



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- Pathology
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- Tendinopathy
- Spring Ligament
- Tarsal Tunnel Syndrome
- Flexor Hallucis Longus Tendinitis
- Peroneal Tendinopathy
- Peroneal Tendon Dislocation
- Peroneus Quartus
- Chronic ATFL Tear
- Achilles Heal
- Retrocalcaneal Bursitis
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- Bursal Partial-Thickness Tears
- Large Full-Thickness Tears
- Massive Full-Thickness Tears
- Intrasubstance Tears
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- Fatty Infiltration & Muscle Atrophy
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- Pitfalls in Rotator Cuff Sonography
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- Joint Effusion, Synovitis, Loose Bodies, Plica
- Bursae: Pre-Patellar, Deep and Superficial Infrapatellar
- MEDIAL: MCL, Pes Anserine, Medial Meniscus, MPFL
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- LATERAL: IT Band, Lateral Collateral Ligament, Popliteus, Biceps Femoris, Lateral Meniscus

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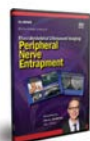
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- Cervical Spine Interventions
- Caudal Injections
- Benefits of Prolotherapy
- SI Joint Injections
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- Posterior



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- Nerve Scarring, Trauma & Injury Neuromas & T
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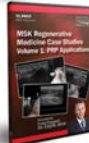
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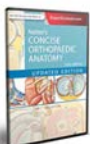


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ENJOYED THE PROGRAM VERY MUCH.”

THOMAS G. PLAVAC, M.D.

- ▶ INTRO COURSES
- ▶ BLENDED COURSES
- ▶ ADVANCED COURSES
- ▶ HANDS-ON TRAINING
- ▶ DVDs
- ▶ ONLINE VIDEOS
- ▶ ONLINE COURSES
- ▶ TEXTBOOKS / ACCESSORIES

“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

VASCULAR

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/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 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.
7. Characterize plaque morphology & other pathology associated with cerebral vascular disease.
8. Perform Intima-media thickness measurements and state the clinical significance as a screening method for cardiovascular disease.
9. Apply diagnostic criteria for accurate interpretation of Carotid Duplex/Color Flow Examinations.
10. Integrate the information to include and prepare a structured report for a carotid ultrasound examination.

COURSE FEATURES & TOPICS:

- ◆ Doppler & Color Fundamentals
- ◆ Carotid Stenosis Assessment
- ◆ Interactive Review of Carotid Imaging Pitfalls
- ◆ Carotid Anatomy, Physiology & Scan Protocols
- ◆ Case Studies / Structuring a Report
- ◆ Disease Progression / Intima-Media Thickness
- ◆ Scan Logs / Checklists Available
- ◆ Normal Spectral Analysis
- ◆ Non-Atherosclerotic Carotid Abnormalities
- ◆ Lifetime Access to Digital Course Syllabus
- ◆ 3:1 Hands-On Scan Ratio with Live Models
- ◆ 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	<p>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.</p> <p>Combine and Save with Peripheral Vascular Ultrasound Course.</p>
ABIM MOC	16.00	
REGULAR COURSE TUITION	\$2020	
ADVANCED COURSE TUITION	\$1820	
VIRTUAL COURSE TUITION	\$930	

FACULTY:



PHILLIP BENDICK, PhD, RVT, FSDMS, FSVU
Vascular Consultant
Bass, NC



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



TRISHA REO, 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!**

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BLENDED INTRO TO CAROTID DUPLEX/COLOR FLOW ULTRASOUND February 17, 2022 BCSO-221

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 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 for obtaining quantitative information and state the diagnostic relevance of each of the measurements.
7. Characterize plaque morphology & other pathology associated with cerebral vascular disease.
8. Perform Intima-Media Thickness measurements and evaluation and state the clinical significance as a screening method for cardiovascular disease.
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 an/or interpret upper & lower peripheral vascular ultrasound examination.

- ◆ Doppler & Color Fundamentals
- ◆ Carotid Anatomy, Physiology & Scan Protocols
- ◆ Normal Carotid Spectral Analysis
- ◆ Downloadable / Printable Handouts
- ◆ Carotid Duplex/Color Scan Protocol
- ◆ Carotid Stenosis Assessment
- ◆ U/S Evaluation of Intima-Media Thickness
- ◆ Challenging Carotid Cases Studies
- ◆ Non-Atherosclerotic Carotid Abnormalities

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

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.

AMA CATEGORY I ONLINE COURSE	10.50	This course meets CME/CEU requirements for ARDMS, CCI, & APCA.		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.
AMA CATEGORY I SCAN WORKSHOP	6.00			
ADVANCED COURSE TUITION	\$1845	REGULAR COURSE TUITION	\$2045	



PHILLIP BENDICK, PhD, RVT, FSDMS, FSVU
Vascular Consultant
Bass, NC



LORI GREEN, BA, RT(R), 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 CONLON, RVT, RDCS

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

INTRO TO PERIPHERAL VASCULAR DUPLEX/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.
10. Perform evaluation for venous insufficiency and patency of perforators for vein therapy treatment.

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	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			
ABIM MOC	16.00				
ADVANCED COURSE TUITION	\$1845	REGULAR COURSE TUITION	\$2045	VIRTUAL COURSE TUITION	\$930

FACULTY:



PHILLIP BENDICK, PhD, RVT, FSDMS, FSVU
Vascular Consultant
Bass, NC



TRISHA REO, 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 & \$AVE.

SAVE!

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BLENDED VASCULAR COURSE (ONLINE COURSE + HANDS-ON)

BLENDED INTRO TO PERIPHERAL VASCULAR ULTRASOUND

February 18, 2022

BPSO-222

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

1. Increase the participants' knowledge to better perform and/or 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.
4. (Sonographers) Cite Doppler/color physics and apply these principles to optimize system controls and/or (Physicians) utilize this data for recognizing technical errors which may result in misdiagnosis.
5. Perform routine scan protocols, and document Doppler waveforms for lower extremity arterial and venous evaluations of the upper and lower extremity.
6. State the indications and 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 eval. of the lower extremities, including pre & post vein ablation evaluation.
9. State the role of ultrasound in the diagnosis and treatment of venous insufficiency.
10. Perform evaluation for venous insufficiency and patency of perforators for vein therapy treatment.

ONLINE COURSE INCLUDES: (15 Months Unlimited Access.)

- ◆ Anatomy, Techniques & Normal Characteristics
- ◆ Duplex/Color Evaluation for Venous Ablation
- ◆ LE Arterial Anatomy & Physiology
- ◆ Duplex / Color Evaluation of LE, UE & DVT
- ◆ Types of Vein Ablation Procedures
- ◆ Clinical Exam & Indirect Testing
- ◆ Evaluation of Venous Insufficiency
- ◆ Pre & Post-Procedure Mapping
- ◆ Direct Testing & Duplex Scanning

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 (if needed)
- ◆ Scanning Tips and Tricks from the Experts

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	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.
AMA CATEGORY I SCAN WORKSHOP	6.00		
ADVANCED COURSE TUITION	\$1870	REGULAR COURSE TUITION	
		\$2070	

FACULTY:



ROB DAIGLE, BA, RVT, FSVU, FSDMS
President, Summer Publishing
Ultrasound Consultant
Denver, CO



PHILLIP BENDICK, PhD, RVT, FSDMS, FSVU
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

BLENDED INTRO TO TRANSCRANIAL DOPPLER ULTRASOUND February 18, 2022 BTCD SO-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 examinations.
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 examinations.
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
- ◆ Neuroanatomy & 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:

AMA CAT. I	9.00	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.
AMA SCAN	6.00		
ADVANCED COURSE TUITION	\$1870	REGULAR COURSE TUITION	
		\$2070	

FACULTY:



DONALEE DAVIS, CNRN
Clinical Vascular Specialist
Carefusion
Lower Burrell, PA



LORI GREEN, BA, RT(R), RDMS, RDGS, RVT
Program Director
Gulfcoast 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

INTRO TO CAROTID ULTRASOUND | DVD COURSE PACK \$652

Optional: 10.25 AMA PRA
Category 1 Credits™

CP-C



CAROTID DUPLEX/COLOR ULTRASOUND PROTOCOL MANUAL + ONLINE DEMO **NEW**
LORI GREEN, BA, RT(R), RDMS, RDMS, RVT | \$69.95 | ADD \$25.00 FOR ONE QUIZ
PM-VAS-C3 BOOKLET/ONLINE 2.0 AMA PRA Category 1 Credits™ ISBN # 978-1-950973-59-0

TOPICS:

- Overview/Protocol Summary
- Carotid Study Worksheet/Other Carotid Pathology
- Instrumentation & Purpose
- Waveform Characteristics/Examination Protocols
- Exam Indications & Patient Assessment
- Carotid Measurements/Diagnostic Criteria



DOPPLER & COLOR FUNDAMENTALS: VASCULAR ULTRASOUND (106 mins.)

LORI GREEN, BA, RT(R), RDMS, RDMS, RVT | \$129.00 | ADD \$25.00 FOR ONE QUIZ
DP3 DVD or ONLINE 2.0 AMA PRA Category 1 Credits™ ISBN # 978-1-945749-69-8

TOPICS:

- Doppler Principles / Doppler Equation
- Doppler Instrumentation, Controls & Optimization
- Doppler Interrogation Angle / Artifacts
- Power Doppler Indications & Applications



NORMAL CAROTID DUPLEX/COLOR EXAMINATION (80 mins.)

LORI GREEN, BA, RT(R), RDMS, RDMS, RVT | \$129.00 | ADD \$25.00 FOR ONE QUIZ
NCD DVD or ONLINE 2.0 AMA PRA Category 1 Credits™ ISBN # 978-1-945749-07-0

TOPICS:

- Clinical Indications
- Cerebrovascular Anatomy
- Doppler Characteristics & Measurements
- Disease Progression & Scan Protocols



U/S EVAL. OF NON-ATHEROSCLEROTIC CAROTID ABNORMALITIES (34 mins.)

PHILLIP BENDICK, PH.D., RVT, FSDMS, FSVU | \$99.00 | ADD \$25.00 FOR ONE QUIZ
NACA DVD or ONLINE 1.0 AMA PRA Category 1 Credits™ ISBN # 978-1-945749-94-0

TOPICS:

- Intraluminal Obstruction
- Extraluminal Factors
- Structural (Wall) Integrity Defects



ULTRASOUND EVALUATION OF INTIMA-MEDIA THICKNESS (43 mins.)

PHILLIP BENDICK, PH.D., RVT, FSDMS, FSVU | \$99.00 | ADD \$25.00 FOR ONE QUIZ
IMT3 DVD or ONLINE 1.0 AMA PRA Category 1 Credits™ ISBN # 978-1-945749-77-3

TOPICS:

- What is Intima Media Thickness?
- Why is IMT Important?
- How to Perform IMT Measurements
- How to Apply IMT Measurements in the Clinical Setting



CAROTID STENOSIS ASSESSMENT (46 mins.)

PHILLIP BENDICK, PH.D., RVT, FSDMS, FSVU | \$99.00 | ADD \$25.00 FOR ONE QUIZ
CSA2 DVD or ONLINE 1.0 AMA PRA Category 1 Credits™ ISBN # 978-1-945749-79-7

TOPICS:

- Hemodynamic Effects of Stenosis
- Diagnostic Criteria: Peak Systolic Velocity, End-Diastolic Velocity, ICA/CCA Ratio: What do the Numbers Mean?
- Documentation Required by IAC for Vascular Lab Accreditation
- Accurately Apply the Diagnostic Criteria and How to Structure a Final Report



CAROTID CASE STUDIES (52 mins.)

PHILLIP BENDICK, PH.D., RVT, FSDMS, FSVU | \$99.00 | ADD \$25.00 FOR ONE QUIZ
CCS2 DVD or ONLINE 1.25 AMA PRA Category 1 Credits™ ISBN # 978-1-945749-83-4

TOPICS:

- Normal Examination Overview
- Web Stenosis at Bifurcation
- CCA Occlusion
- Innominate Artery Occlusion
- Vertebral Artery Disease
- Non-Pathologic Cardiac Effects on Duplex Color Exam
- Vessel Tortuosity & Carotid Endarterectomy
- Pseudoaneurysm
- Post-Endarterectomy Flap
- Stent Evaluation Including Stent Re-Stenosis

INTRO TO PERIPHERAL VASCULAR ULTRASOUND | DVD COURSE PACK \$831

Optional: 15.50 AMA PRA
Category 1 Credits™

CP-PV



LOWER EXTREMITY ARTERIAL ULTRASOUND PROTOCOL MANUAL + ONLINE DEMO **NEW**

ROBERT DAIGLE, BA, RVT, FSVU, FSDMS | \$69.95 | ADD \$25.00 FOR ONE QUIZ
PM-VAS-A3 BOOKLET/ONLINE 2.00 AMA PRA Category 1 Credits™ ISBN # 978-1-945749-27-8

TOPICS:

- Lower Ext. Arterial Exam Purpose
- Doppler Waveforms/Pulse Volume Recording
- Lower Ext. Arterial Exam Applications
- Segmental Pressures/Exercise Stress Testing
- Patient Assessment & Preparations
- Duplex/Color Flow Imaging



ULTRASOUND EVAL. OF VENOUS INSUFFICIENCY & TREATMENT OF DISEASE (75 mins.)

PHILLIP J. BENDICK, PH.D., RVT, FSDMS, FSVU | \$99.00 | ADD \$25.00 FOR ONE QUIZ
VITD DVD or ONLINE 1.50 AMA PRA Category 1 Credits™ ISBN # 978-1-945749-90-2

TOPICS:

- Chronic Venous Disease & Insufficiency
- Venous Insufficiency: Superficial System
- Venous Physiology
- Duplex Ultrasound of Perforating Veins
- Venous Insufficiency: Deep Venous System
- Percutaneous Treatment



LOWER EXTREMITY VENOUS IMAGING: ANATOMY, EXAM & EVAL. OF DVT (90 mins.)

PHILLIP J. BENDICK, PH.D., RVT, FSDMS, FSVU | \$129.00 | ADD \$25.00 FOR ONE QUIZ
LEV2 DVD or ONLINE 1.75 AMA PRA Category 1 Credits™ ISBN # 978-1-945749-86-5

TOPICS:

- Lower Ext. Venous Anatomy & Physiology
- Venous Duplex Ultrasound
- Vascular Hemodynamics/Imaging Protocols
- Venous Testing for DVT
- Clinical History & Symptoms
- Duplex/Color Characteristics



UPPER EXTREMITY VENOUS IMAGING (38 mins.)

PHILLIP J. BENDICK, PH.D., RVT, FSDMS, FSVU | \$99.00 | ADD \$25.00 FOR ONE QUIZ
UEV2 DVD or ONLINE 1.00 AMA PRA Category 1 Credits™ ISBN # 978-1-945749-85-8

TOPICS:

- Upper Extremity Venous Anatomy & Physiology
- Vascular Hemodynamics & Pre-Operative Vascular Mapping
- Normal/Abnormal Venous Imaging
- Duplex/Color Characteristics



ULTRASOUND EVAL. OF THE LOWER EXTREMITY ARTERIAL SYSTEM (130 mins.)

ROBERT DAIGLE, BA, RVT, FSVU | \$129.00 | ADD \$25.00 FOR ONE QUIZ
LEAT3 DVD or ONLINE 2.50 AMA PRA Category 1 Credits™ ISBN # 978-1-945749-88-9

TOPICS:

- Lower Ext. Arterial Anatomy & Physiology
- ABI- Ankle Brachial Index
- Indirect Arterial Testing Methods
- Photo-Plethysmography
- Pulse Volume Recording
- Diagnostic Criteria for Lower Ext. Disease
- Segmental Pressures
- Duplex/Color Eval. of the Lower Extremities



DUPLEX EVAL. OF ANEURYSM/PSEUDO ANEURYSMS & EVAL. OF ARTERIAL BYPASS GRAFTS (48 mins.)

ROBERT DAIGLE, BA, RVT, FSVU | \$99.00 | ADD \$25.00 FOR ONE QUIZ
DEAP3 DVD or ONLINE 1.00 AMA PRA Category 1 Credits™ ISBN # 978-1-945949-89-6

TOPICS:

- Evaluation of Aortic Aneurysm
- Thrombin Injection Techniques
- Popliteal Aneurysm
- Eval. of Lower Extremity Arterial Bypass Grafts
- Pseudo-Aneurysm



ULTRASOUND EVALUATION OF THE UPPER EXTREMITY ARTERIAL SYSTEM (56 mins.)

ROBERT DAIGLE, BA, RVT, FSVU | \$99.00 | ADD \$25.00 FOR ONE QUIZ
UEAS2 DVD or ONLINE 1.50 AMA PRA Category 1 Credits™ ISBN # 978-1-950973-42-2

TOPICS:

- Upper Ext. Arterial Anatomy/Physiology
- Evaluation of Thoracic Outlet
- Atherosclerotic Disease
- Raynaud's Syndrome
- Indications and Contraindications
- Diagnostic Methods for Upper Extremity Arterial Disease
- Buerger's Disease



DOPPLER & COLOR FUNDAMENTALS: VASCULAR ULTRASOUND (106 mins.)

LORI GREEN, BA, RT(R), RDMS, RDMS, RVT | \$129.00 | ADD \$25.00 FOR ONE QUIZ
DP3 DVD or ONLINE 2.00 AMA PRA Category 1 Credits™ ISBN # 978-1-945749-69-8

TOPICS:

- Doppler Principles/Doppler Equation
- Optimization of Doppler/Color Controls
- Doppler Interrogation Angle
- Color Assignment
- Doppler Instrumentation/Doppler Artifacts
- Power Doppler Indications & Applications



LOWER EXTREMITY VENOUS ULTRASOUND PROTOCOL MANUAL + ONLINE DEMO

LORI GREEN, BA, RT, RDMS, RDMS, RVT | \$69.95 | ADD \$25.00 FOR ONE QUIZ
PM-VAS-LEV3 BOOKLET/ONLINE 2.00 AMA PRA Category 1 Credits™ ISBN # 978-1-945748-87-2

TOPICS:

- Overview/Protocol Summary
- Venous Waveforms
- Instrumentation & Exam Indications
- Waveform Characteristics
- Online Video Exam Demo
- Transverse Imaging Techniques
- Exam Purpose & Patient Assessment
- Interpretation Guidelines
- Exam Preparation
- Deep & Superficial Exam Protocols

TRANSCRANIAL DOPPLER ULTRASOUND



TRANSCRANIAL DOPPLER ULTRASOUND & CLINICAL APPLICATIONS FOR TCD (300 mins.)

DONALEE DAVIS, CNRN | 12 DISK SET | \$299.00 | ADD \$25.00 FOR ONE QUIZ
TCD2A DVD ONLY 5.5 AMA PRA Category 1 Credits™ ISBN # 978-1-940954-55-4

TOPICS:

- TCD Neuroanatomy
- TCD Examination Techniques
- Normal Flow Characteristics & Velocity Ranges



INTRODUCTION TO TRANSCRANIAL DOPPLER ULTRASOUND (65 mins.)

DONALEE DAVIS, CNRN | \$99.00 | ADD \$25.00 FOR ONE QUIZ
ITCD2 DVD or ONLINE 1.5 AMA PRA Category 1 Credits™ ISBN # 978-1-940954-90-5

TOPICS:

- TCD Neuro-Anatomy
- TCD Examination Techniques
- Normal Flow Characteristics, Velocity Ranges, Cerebrovascular Disease & PFO
- Subarachnoid Hemorrhage, Vasospasm, Aneurysm Rupture & Sickle Cell Disease
- Neurointervention AVM, Traumatic Injury, Cerebral Circulatory Arrest & Microemboli

VASCULAR ULTRASOUND PRODUCTS

ADVANCED VASCULAR ULTRASOUND VIDEOS



ULTRASOUND EVALUATION OF DIALYSIS ACCESS GRAFTS & FISTULAS (31 mins.)

ROBERT ATNIP, M.D., RVT, RPVI | \$99.00 | ADD \$25.00 FOR CME QUIZ
DAGF2 DVD or ONLINE 1.0 AMA PRA Category 1 Credits™ | ISBN # 978-1-940954-84-4

TOPICS:

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



MESENTERIC & PORTO-HEPATIC DUPLEX SONOGRAPHY (61 mins.)

PHILLIP BENDICK, PH.D., RVT, FSDMS, FSVU | \$99.00 | ADD \$25.00 FOR CME QUIZ
MPD2 DVD or ONLINE 1.5 AMA PRA Category 1 Credits™ | ISBN # 978-1-950973-35-4

TOPICS:

- Acute Mesenteric Ischemia Mortality Data & Diagnoses Criteria
- Symptoms, Normal Anatomy, Scan Protocols, Normal & Abnormal Waveform Characteristics
- Eval. of Chronic Mesenteric Ischemia, Median Arcuate Ligament Syndrome, Splenic Artery
- Aneurysm, Mesenteric Fibromuscular Dysplasia, Mesenteric Venous Thrombosis
- Portal Venous Anatomy & Normal Flow Velocity/Waveform Characteristics
- Evaluation of Portal Hypertension: Portal Vein Thrombosis & TIPS Procedure



ULTRASOUND EVALUATION OF AORTIC ENDOGRAFTS (37 mins.)

ROBERT ATNIP, M.D., RVT, RPVI | \$99.00 | ADD \$25.00 FOR CME QUIZ
AOE2 DVD or ONLINE 1.0 AMA PRA Category 1 Credits™ | ISBN # 978-1-945749-84-1

TOPICS:

- Ultrasound in Evaluating EVAR
- EVAR vs' Open AAA Repair
- Advantages & Disadvantages
- Role of Duplex / Color Flow Imaging
- EVAR & Endoleaks
- Duplex Scan Protocols for Endoleaks
- Post-Operative Surveillance
- Case Examples



INTRODUCTION TO TRANSPLANT SONOGRAPHY (75 mins.)

PHILLIP BENDICK, PH.D., RVT, FSDMS, FSVU | \$99.00 | ADD \$25.00 FOR CME QUIZ
ITS2 DVD or ONLINE 1.5 AMA PRA Category 1 Credits™ | ISBN # 978-1-950973-33-0

TOPICS:

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

VASCULAR ULTRASOUND ONLINE COURSES (12 MONTHS ACCESS)



INTRODUCTION TO CAROTID DUPLEX/COLOR FLOW ULTRASOUND

PHILLIP BENDICK, PH.D., RVT, FSDMS, FSVU BRIAN SCHENKER, MBA, RDMS, RVT & LORI GREEN, BA, RT(R), RDMS, RDMS, RVT | \$525.00
OC-CA191 ONLINE COURSE 10.50 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 Eval. of Intima-Media Thickness
- Challenging Carotid Case Studies
- Non-Atherosclerotic Carotid Abnormalities
- How to Structure a Report



RPVI & VASCULAR INTERPRETATION WITH 100 VASCULAR CASES **NEW**

MARSHA NEUMEYER, BS, RVT, FSDMS, FSVU, FAIUM & ROBERT ATNIP, M.D., RVT, RPVI | \$975.00
OC-RPVI211 ONLINE COURSE 20.75 AMA PRA Category 1 Credits™ + \$125.00.

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!



INTRODUCTION TO PERIPHERAL VASCULAR ULTRASOUND

PHILLIP BENDICK, PH.D., RVT, FSDMS, FSVU ROB DAIGLE, BA, RVT, FSVU, FSDMS LORI GREEN, BA, RT, RDMS, RDMS, RVT & BRIAN SCHENKER, MBA, RDMS, RVT | \$625.00
OC-PVU191 ONLINE COURSE 13.50 AMA PRA Category 1 Credits™ + \$125.00.

TOPICS:

- Doppler & Color Fundamentals
- Venous Anatomy, Scan Techniques & Normal Characteristics
- Duplex/Color Evaluation of Upper & Lower Extremity DVT
- Duplex/Color Evaluation of Venous Insufficiency & Ablation Procedures
- Ultrasound Evaluation of Arterial Bypass Grafts
- Arterial Anatomy & Physiology



ULTRASOUND-GUIDED VASCULAR ACCESS: A COMPREHENSIVE GUIDE

ANDREAS DEWITZ, M.D., RDMS, FACEP & LORI GREEN, BA, RDMS, RDMS, RVT | \$350.00
OC-UGVA181 ONLINE COURSE 4.25 AMA PRA Category 1 Credits™ + \$50.00.

TOPICS:

- Fundamentals of UGVA
- U/S Guided Peripheral Line Placement
- Direct vs. Indirect Techniques
- In Plane vs. Out of Plane Techniques
- Vessel Differentiation & Procedural Tips
- U/S-Guided Central Line Placement
- IJ, Axillary/Subclavian & Femoral Vein Access
- Why use Ultrasound Guidance?
- Peripheral Line Placement
- Antecubital Vein Access
- Additional Access Sites
- Pediatric Patient
- Clinical Cases
- U/S Probe Cover Demonstration



INTRODUCTION TO TRANSCRANIAL DOPPLER ULTRASOUND

DONALEE DAVIS, CNRN & LORI GREEN, BA, RT, RDMS, RDMS, RVT | \$400.00
OC-TCD191 ONLINE COURSE 9.0 AMA PRA Category 1 Credits™ + \$75.00.

TOPICS:

- Doppler U/S & Color Fundamentals
- Intro. to Transcranial Doppler U/S
- Clinical Applications for TCD: Part I
- Clinical Applications for TCD: Part II
- Clinical Applications for TCD: Part III
- Clinical Applications for TCD: Part IV



INTRODUCTION TO ABDOMINAL DOPPLER ULTRASOUND **NEW**

LORI GREEN, BA, RT(R), RDMS, RVT PHILLIP BENDICK, PH.D., RVT, FSDMS, FSVU & ROBERT ATNIP, M.D., RVT, RPVI | \$450.00
OC-ABDO201 ONLINE COURSE 8.75 AMA PRA Category 1 Credits™ + \$75.00.

TOPICS:

- Imaging Fundamentals
- Abdominal Doppler Physics
- Evaluation of the Abdominal Aorta
- Evaluation of Aortic Endografts
- Evaluation of Renal Artery Stenosis
- Mesenteric & Porto-Hepatic Duplex
- Transplant Sonography

VASCULAR CASE STUDIES | ONLINE COURSE PACK \$891

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ARTERIAL CASE STUDIES

MARSHA M. NEUMEYER, BS, RVT, FSDMS, FAIUM ROBERT ATNIP, M.D., RVT, RPVI DENNIS BANDYK, M.D., FACS & ROB DAIGLE, BA, RVT, FSVU, FSDMS | \$330.00
OC-ACS191 ONLINE COURSE 5.00 AMA PRA Category 1 Credits™ + \$50.00.

TOPICS:

- Arterial Occlusive Disease
- Arteriovenous Fistula
- False Aneurysms
- Arterial Embolus
- Positional Subclavian Artery Compression
- Arterial Thrombosis
- Pseudo Aneurysm Repair
- Aorta-iliac Disease
- Ilio Femoral Disease
- Arterial Stent Occlusion
- Endografts
- Popliteal Artery
- Renal Arteries
- Arterial Stents
- Median Arcuate Ligament Compression
- Renal Medial Fibromuscular Dysplasia



CAROTID/CEREBROVASCULAR CASE STUDIES

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TOPICS:

- ICA Stenosis
- Subclavian Steal Syndrome
- Fibromuscular Dysplasia
- Carotid Stent
- Innominate Artery Stenosis
- Atherosclerotic Plaque
- Stent Stenosis
- Common Carotid Artery Stenosis
- Innominate Artery Occlusion
- Cerebral Circulatory Arrest
- Carotid Body Tumor
- Innominate Steal Syndrome
- Carotid Artery Dissection
- Intracranial Arteriovenous Malformation
- Aortic Insufficiency
- Particulate Emboli, TCD & More...



VENOUS CASE STUDIES

MARSHA M. NEUMEYER, BS, RVT, FSDMS, FAIUM ROBERT ATNIP, M.D., RVT, RPVI & DENNIS BANDYK, M.D., FACS | \$330.00
OC-VCS191 ONLINE COURSE 5.00 AMA PRA Category 1 Credits™ + \$50.00.

TOPICS:

- Vein Conduit Stenosis
- Proximal Venous Obstruction
- Tricuspid Insufficiency
- Elevated Central Venous Pressure
- Valvular Incompetence
- Venous Recanalization
- May-Thurner Syndrome
- Common Femoral Vein Incompetence
- Thrombosis
- Venous Ablation
- Baker's Cyst
- Arteriovenous Fistula
- Extrinsic Compression
- Abdominal Venous Duplex
- Venous Duplex Ultrasound-CAT-Scan-Retroperitoneal Fibrosis
- Renal Vein Thrombosis
- Compromised Flow Anastomotic Stenosis
- Steal Syndrome, Venous Compression & More...

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.)

VASCULAR ULTRASOUND PRODUCTS

ABDOMINAL DOPPLER ULTRASOUND | DVD COURSE PACK \$651

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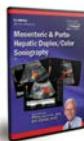


INTRODUCTION TO TRANSPLANT SONOGRAPHY **NEW** (75 mins.)

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TOPICS:

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



MESENTERIC & PORTO-HEPATIC DUPLEX SONOGRAPHY **NEW** (61 mins.)

PHILLIP BENDICK, PhD, RVT, FSDMS, FSVU | \$99.00 | ADD \$25.00 FOR CME QUIZ
MPD2 DVD or ONLINE 1.50 AMA PRA Category 1 Credits™ ISBN # 978-1-950973-35-4

TOPICS:

- Acute Mesenteric Ischemia Mortality Data
- Normal Anatomy, Scan Protocols, Normal/Abnormal Waveform Characteristics
- Diagnostic Criteria
- Eval. of Chronic Mesenteric Ischemia, Median Arcuate Ligament Syndrome, Splenic Artery Aneurysm, Mesenteric Fibromuscular Dysplasia, Mesenteric Venous Thrombosis
- Portal Venous Anatomy & Normal Flow Velocity/Waveform Characteristics
- Eval. of Portal Hypertension; Portal Vein Thrombosis
- TIPS Procedure



ULTRASOUND IMAGING FUNDAMENTALS: THE BASICS (65 mins.)

LORI GREEN, BA, RT(R), RDMS, RDGS, RVT | \$99.00 | ADD \$25.00 FOR CME QUIZ
IF3 DVD or ONLINE 1.25 AMA PRA Category 1 Credits™ ISBN # 978-1-945749-47-6

TOPICS:

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



ULTRASOUND EVALUATION OF RENAL ARTERY STENOSIS (57 mins.)

PHILLIP BENDICK, PhD, RVT, FSDMS, FSVU | \$99.00 | ADD \$25.00 FOR CME QUIZ
RAS2 DVD or ONLINE 1.25 AMA PRA Category 1 Credits™ ISBN # 978-1-945749-56-8

TOPICS:

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



ULTRASOUND IMAGING OF THE ABDOMINAL AORTA (42 mins.)

LORI GREEN, BA, RT(R), RDMS, RDGS, RVT | \$99.00 | ADD \$25.00 FOR CME QUIZ
AA3 DVD or ONLINE 1.0 AMA PRA Category 1 Credits™ ISBN # 978-1-945749-57-5

TOPICS:

- Purpose of Abdominal Aorta Sonography
- Primary Branches
- Scan Techniques
- Routine Protocols and Measurements
- Pathology



DOPPLER & COLOR FUNDAMENTALS: VASCULAR ULTRASOUND (106 mins.)

LORI GREEN, BA, RT(R), RDMS, RDGS, RVT | \$129.00 | ADD \$25.00 FOR CME QUIZ
DP3 DVD or ONLINE 2.0 AMA PRA Category 1 Credits™ ISBN # 978-1-945749-69-8

TOPICS:

- Doppler Principles/Doppler Equation
- Doppler Interrogation Angle
- Doppler Instrumentation: Pulsed Wave, Continuous Wave, Color Doppler, and Power Doppler
- Doppler Artifacts
- Optimization of Doppler/Color Controls
- Color Assignment
- Power Doppler Indications & Applications



ULTRASOUND EVALUATION OF AORTIC ENDOGRAFTS (37 mins.)

ROBERT ATNIP, MD, RVT, RPVI | \$99.00 | ADD \$25.00 FOR CME QUIZ
AOE2 DVD or ONLINE 1.00 AMA PRA Category 1 Credits™ ISBN # 978-1-945749-84-1

TOPICS:

- The Importance of Ultrasound in Evaluating EVAR
- EVAR vs. Open AAA Repair
- Advantages & Disadvantages
- Duplex & its role in EVAR
- EVAR & Endoleaks
- Duplex Scan Protocols for Evaluation of Endoleaks
- Post-Operative Surveillance
- Case Examples

VASCULAR ULTRASOUND BOOKS AND ACCESSORIES



INTRODUCTION TO VASCULAR ULTRASONOGRAPHY 6TH ED. (704 pgs.)

JON PELLERITO, M.D. & JOSEPH POLAK, M.D., MPH | \$119.00
IVU6 HARD COVER BOOK ISBN # 978-1437714173

TOPICS:

- A Concise Overview of Arterial & Venous Ultrasound



TECHNIQUES IN NONINVASIVE VASCULAR DIAGNOSIS - 4TH ED. (398 pgs.)

ROB DAIGLE, BA, RVT, FSVU, FSDMS | \$89.95
TNVDI-4 SPIRAL BOUND BOOK ISBN # 978-09899329-1-2

TOPICS:

- A Concise Reference Source of Noninvasive Vascular Diagnosis



A PRACTICAL GUIDE TO TRANSCRANIAL DOPPLER EXAMINATIONS (158 pgs.)

MIRA KATZ, PhD, MPH, RVT & ANDREI ALEXANDROV, M.D., RVT | \$74.95
TCDE PERFECT BOUND BOOK ISBN # 978-0-9720653-1-3

TOPICS:

- A Concise Reference Source of TCD Examinations



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CALF VEIN IMAGING

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CASE STUDY: LOWER EXTREMITY ARTERIAL STENOSIS

BRIAN SCHENKER, MBA, RDMS, RVT | \$25.00
VIT-CSLEA1 CME VITAL 1.0 AMA PRA Category 1 Credits™



DUPLEX EVALUATION OF THE UPPER EXTREMITY VENOUS SYSTEM

MARK SWANSON, RT, RDMS, RVT | \$25.00
VIT-DEUEV CME VITAL 1.0 AMA PRA Category 1 Credits™



FOCUSED VENOUS ULTRASOUND

BRIAN SCHENKER, MBA, RDMS, RVT | \$25.00
VIT-FVEN CME VITAL 1.0 AMA PRA Category 1 Credits™



HOW TO LOCATE THE VERTEBRAL ARTERY WITH ULTRASOUND

BRIAN SCHENKER, MBA, RDMS, RVT | \$25.00
VIT-LVA CME VITAL 1.0 AMA PRA Category 1 Credits™



CASE STUDY: FALSE ANEURYSMS

BRIAN SCHENKER, MBA, RDMS, RVT | \$25.00
VIT-FA CME VITAL 1.0 AMA PRA Category 1 Credits™



CASE STUDY: NORMAL CAROTID ARTERY ULTRASOUND EXAM?

BRIAN SCHENKER, MBA, RDMS, RVT | \$25.00
VIT-CSC CME VITAL 1.0 AMA PRA Category 1 Credits™



EVALUATION OF THE ABDOMINAL VASCULATURE

MARK SWANSON, RT, RDMS, RVT | \$25.00
VIT-ABDVAS CME VITAL 1.0 AMA PRA Category 1 Credits™



HOW TO PERFORM AN ANKLE BRACHIAL INDEX

BRIAN SCHENKER, MBA, RDMS, RVT | \$25.00
VIT-ABI CME VITAL 1.0 AMA PRA Category 1 Credits™



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BRIAN HALL, M.D.

POINT OF CARE

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, pericardiocentesis, paracentesis, hemothorax, 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
- ◆ Pericardiocentesis, Paracentesis, Hemothorax Lumbar Puncture, ET
- ◆ Lifetime 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:

AMA CAT. I	24.00	This course meets CME/CEU requirements for ARDMS, ABIM & ACEP. 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!			
ABIM MOC	24.00				
ACEP	24.00	ADVANCED REGISTRATION	\$2315	REGULAR REGISTRATION	\$2515
				COMBINE WITH ADVANCED EM	STARTING @ \$4140

FACULTY:



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



ANDREW LAUDENSCHLAGER, MD
Hennepin Healthcare
Minneapolis, Minnesota



BRET P. NELSON, MD, RDMS, FACEP
(FEBRUARY-MARCH ONLY)
Director, Emergency Medicine
Residency Program
Mount Sinai School of Medicine
Brooklyn, NY



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



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



DAVID BAHNER, MD, FFAEM, FACEP
(SEPTEMBER ONLY)
Professor & Director of Ultrasound
Emergency Medicine
Ohio State University
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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.
3. Perform ultrasound evaluation of the trauma patient. (e-FAST Exam).
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.
8. State an algorithm for assessing causes of shock and hypotension using bedside ultrasound.
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:

- ◆ Ultrasound-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:

AMA CAT. I	16.00	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!			
ABIM MOC	16.00				
ACEP	16.00	ADVANCED REGISTRATION	\$1870	REGULAR REGISTRATION	\$2070
		COMBINE WITH ADVANCED EM		STARTING @ \$3695	

FACULTY:



ALEXANDER LEVITOV, MD, FACP
FACC, RDMS
Eastern Virginia Medical School
Department of Internal Medicine
Division of Pulmonary & Critical Care Medicine
Norfolk, VA



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



ANDREW LAUDENBACH, MD
Hennepin Healthcare
Minneapolis, Minnesota



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



DAVID BAHNER, MD, RDMS, FFAEM, FACEP
(SEPTEMBER ONLY)
Professor & Director of Ultrasound
Emergency Medicine
Ohio State University
Columbus, Ohio



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LIVE EMERGENCY MEDICINE COURSE (LIVE LECTURES + HANDS-ON)

ADVANCED EMERGENCY MEDICINE & CRITICAL CARE

March 3-4, 2022
September 15-16, 2022

ERCA-221
ERCA-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 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 valvular 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	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 Intro. to Emergency Medicine or Critical Care Course & Save!			
ABIM MOC	16.00				
ACEP	16.00	ADVANCED REGISTRATION	\$1870	REGULAR REGISTRATION	\$2070
		COMBINE WITH INTRO EM OR CCU		STARTING @ \$3695	

FACULTY:



ALEXANDER LEVITOV, M.D., FACP, FACCM, RDMS
Eastern Virginia Medical School
Department of Internal Medicine
Div. of Pulmonary & Critical Care Medicine
Norfolk, VA



DAN BOURQUE, MS, RCS, FASE
Orlando Regional Medical
Orlando, FL



ANDREAS DEWITZ, M.D., RDMS, FACEP
Vice Chair for Ultrasound Education
Associate Professor of Emergency Medicine
Boston University School of Medicine
Boston, MA



JAMES MATEER, M.D., RDMS
Physician/Waukesha Memorial Hospital
Clinical Professor for the Department of
Emergency Medicine College
Waukesha, WI



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



ANDREW LAUDENBACH, MD
Hennepin Healthcare
Minneapolis, Minnesota



BLENDED TRAINING COURSES

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 - 6.0 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 - 6.0 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 - 6.0 AMA & ACEP Hands-On
\$1385 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

POCUS CERTIFICATION ACADEMY ONLINE COURSES (12 MONTHS ACCESS)



POCUS ABDOMINAL AORTA (AAA) CERTIFICATE REVIEW ****NEW****

ROBERT ATNIP, MD, RVT, RPVI LORI GREEN, BA, RDMS, RDGS, RVT | \$350.00
POC-AA201 ONLINE COURSE 4.25 AMA PRA Category 1 Credits™ + \$50.00.

TOPICS:

- Sound Generation and Basic Principles
- Transducers
- System Controls & Image Quality
- Imaging Artifacts & Doppler Principles
- Doppler Equation & Effects of Doppler Angle
- Doppler Instrumentation
- Doppler Applications in Point of Care Settings • EVAR and Endoleaks & More
- Doppler/Color Controls
- Doppler and Color Artifacts
- AAA & Primary Branches
- AAA Scan Techniques & Protocols
- Aortic Pathology
- EVAR vs. Open AAA Repair



POCUS ABDOMINAL TRAUMA CERTIFICATE REVIEW ****NEW****

CHARLOTTE DERR, MD, RDMS, FACEP LORI GREEN, BA, RDMS, RDGS, RVT | \$425.00
POC-AT201 ONLINE COURSE 6.00 AMA PRA Category 1 Credits™ + \$75.00.

TOPICS:

- Sound Generation and Basic Principles
- Transducers
- System Controls & Image Quality
- Imaging Artifacts & Doppler Principles
- Doppler Equation & Effects of Doppler Angle
- Doppler Instrumentation
- Doppler Applications in POCUS Settings
- Doppler Controls & Optimization
- Doppler and Color Artifacts
- Scanning Fundamentals
- Ultrasound in Trauma (E-FAST)
- Lung Ultrasound
- Cases in Trauma



POCUS LOWER EXTREMITY DVT CERTIFICATE REVIEW ****NEW****

LORI GREEN, BA, RDMS, RDGS, RVT | \$300.00
POC-DVT201 ONLINE COURSE 3.75 AMA PRA Category 1 Credits™ + \$50.00.

TOPICS:

- Sound Generation & Basic Principles
- Transducers
- System Controls & Image Quality
- Imaging Artifacts
- Doppler Principles & Equation
- Doppler Instrumentation
- Doppler Applications in POCUS
- Doppler/Color Controls & Optimization
- Doppler and Color Artifacts
- Venous Anatomy and Physiology
- Complete vs. Focused Venous Exam
- Evaluation of Acute vs. Chronic DVT
- Examination Techniques
- Other Sources of Venous Obstruction



POCUS OB/FIRST TRIMESTER CERTIFICATE REVIEW ****NEW****

LORI GREEN, BA, RDMS, RDGS, RVT JAMES MATEER, MD, RDMS | \$350.00
POC-OBFT201 ONLINE COURSE 4.00 AMA PRA Category 1 Credits™ + \$50.00.

TOPICS:

- Sound Generation & Basic Principles
- Transducers
- System Controls & Image Quality
- Imaging Artifacts
- OB/GYN Scan Protocols/Techniques
- Uterine & Ovarian U/S Characteristics
- Commonly seen Pelvic Masses
- Evaluation of Spontaneous Abortion
- Eval. of Intrauterine vs. Extrauterine Pregnancy
- Diagnostic Criteria for Abnormal 1st Trimester Pregnancy



POCUS HEPATOBILIARY/SPLEEN CERTIFICATE REVIEW ****NEW****

LORI GREEN, BA, RDMS, RDGS, RVT JAMES MATEER, MD, RDMS
TRISHA REO, RDMS, RVT | \$350.00
POC-BIL201 ONLINE COURSE 4.00 AMA PRA Category 1 Credits™ + \$50.00.

TOPICS:

- Sound Generation & Basic Principles
- Transducers & Scan Fundamentals
- System Controls & Image Quality
- Imaging Artifacts
- Gallbladder & Biliary Tract
- Evaluation of the Spleen
- Diagnostic Criteria for Pathology
- Technical Pitfalls



POCUS MUSCULOSKELETAL CERTIFICATE REVIEW ****NEW****

JON JACOBSON, MD, RMSK RALF G. THIELE, MD, RHMSUS
PAUL LENTO, MD, CAQSM, RMSK TIM MAZZOLA, MD, CAQSM, RMSK
LORI GREEN, BA, RDMS, RDGS, RVT CRAIG CHAPPELL, DO, RMSK
SHANE SHAPIRO, MD, RMSK | \$975.00
POC-MSK211 ONLINE COURSE 16.50 AMA PRA Category 1 Credits™ + \$125.00.

TOPICS:

- Fundamentals & Tissue Characterization
- Evaluation of the Shoulder
- Evaluation of Shoulder Pathology
- Evaluation of the Normal Elbow
- Evaluation of Elbow Pathology
- Ultrasound-Guided Injection Techniques
- Evaluation of the Hand and Wrist
- Evaluation of Hand/Wrist Pathology
- Evaluation of the Knee
- Evaluation of Knee Pathology
- Evaluation of the Foot & Ankle
- Evaluation of the Hip



POCUS MUSCULOSKELETAL LOWER EXTREMITIES CERTIFICATE REVIEW ****NEW****

JON JACOBSON, MD, RMSK TIM MAZZOLA, MD, CAQSM, RMSK
LORI GREEN, BA, RDMS, RDGS, RVT SHANE SHAPIRO, MD, RMSK | \$540.00
POC-MSKL211 ONLINE COURSE 7.75 AMA PRA Category 1 Credits™ + \$75.00.

TOPICS:

- Fundamentals & Tissue Characterization
- Evaluation of the Knee
- Evaluation of Knee Pathology
- Evaluation of the Normal Foot & Ankle
- Evaluation of Foot and Ankle Pathology
- Evaluation of the Hip
- Ultrasound-Guided Injection Techniques



POCUS MUSCULOSKELETAL UPPER EXTREMITIES CERTIFICATE REVIEW ****NEW****

JON JACOBSON, MD, RMSK RALF G. THIELE, MD, RHMSUS PAUL LENTO, MD, CAQSM, RMSK
LORI GREEN, BA, RDMS, RDGS, RVT CRAIG CHAPPELL, DO, RMSK | \$690.00
POC-MSKU211 ONLINE COURSE 10.25 AMA PRA Category 1 Credits™ + \$75.00.

TOPICS:

- Fundamentals & Tissue Characterization
- Evaluation of the Shoulder
- Evaluation of Shoulder Pathology
- Evaluation of the Normal Elbow
- Evaluation of Elbow Pathology
- Evaluation of the Hand and Wrist
- Evaluation of Hand/Wrist Pathology
- Ultrasound-Guided Injection Techniques



POCUS EMERGENCY MEDICINE ULTRASOUND CERTIFICATION REVIEW ****NEW****

JAMES MATEER, MD, RDMS LORI GREEN, BA, RDMS, RDGS, RVT | \$700.00
RICHARD PALMA, BS, RDGS, RCS, ACS, FASE, FSDMS DAN BOURQUE, MS, RCS, FASE
BRET P. NELSON, MD, RDMS, FACEP ROBERT ATNIP, MD, RVT, RPVI
ALEXANDER LEVITOV, MD, FACEP, FACCM, RDGS
POC-EMU201 ONLINE COURSE 17.50 AMA PRA Category 1 Credits™ + \$125.00.

TOPICS:

- Imaging Fundamentals
- Doppler and Color Flow Fundamentals
- Emergency Ultrasound for OB/GYN
- Abdominal Scanning Fundamentals
- Abdominal Cases in Emergency Medicine
- Ultrasound in Trauma: FAST and E-FAST
- Lower Extremity DVT
- AAA and Aortic Endografts
- Focused Cardiac Ultrasound
- Lung Ultrasound
- R.U.S.H Exam
- Cardiac Case Studies



POCUS CARDIAC CERTIFICATE REVIEW ****NEW****

JAMES MATEER, MD, RDMS LORI GREEN, BA, RDMS, RDGS, RVT | \$550.00
RICHIE PALMA, BS, RDGS, RCS, ACS, FASE, FSDMS DANIEL BOURQUE, MS, RCS, FASE
ALEXANDER LEVITOV, MD, FACEP, FACCM, RDGS
POC-FECD201 ONLINE COURSE 11.00 AMA PRA Category 1 Credits™ + \$125.00.

TOPICS:

- Imaging Fundamentals for Echo
- 2D Evaluation of Cardiac Anatomy
- Intro. to Cardiac Doppler Ultrasound
- 2-D, Color & Doppler Echo Protocol
- Cardiomyopathies and Heart Failure
- Pericardial Disease
- Coronary Artery Disease
- Shock and Hypotension
- Case Studies in Focused Echo



POCUS LUNG ULTRASOUND CERTIFICATE REVIEW ****NEW****

BRET P. NELSON, MD, RDMS, FACEP LORI GREEN, BA, RDMS, RDGS, RVT | \$275.00
POC-LU201 ONLINE COURSE 3.25 AMA PRA Category 1 Credits™ + \$50.00.

TOPICS:

- Sound Generation & Basic Principles
- Transducers & Imaging Artifacts
- System Controls & Image Quality
- Lung Imaging Principles
- Transducer Selection, Sound Interaction
- Assessment of Pneumothorax
- Assessment of Pleural Effusion
- A & B Lines, Pulmonary Edema
- Intubation: Trachea vs. Esophagus
- Trachea, Cricoids Ring Assessment
- Lung Consolidation
- Blue Protocol, FALLS Protocol



POCUS RENAL/GENITOURINARY CERTIFICATE REVIEW ****NEW****

JAMES MATEER, MD, RDMS LORI GREEN, BA, RDMS, RDGS, RVT | \$350.00
POC-REN201 ONLINE COURSE 4.25 AMA PRA Category 1 Credits™ + \$50.00.

TOPICS:

- Sound Generation & Basic Principles
- Transducers & Imaging Artifacts
- System Controls & Image Quality
- Abdominal Scanning Fundamentals
- Normal Kidney & Bladder Characteristics
- Commonly seen Renal Pathology
- Commonly seen Bladder Pathology
- Scrotal Anatomy & Scan Techniques
- Acute Testicular Pain
- Scrotal Trauma



POCUS GENERALIST/PRIMARY CARE CERTIFICATION REVIEW ****NEW****

JAMES MATEER, MD, RDMS I ALEXANDER LEVITOV, MD, FACEP, FACCM, RDGS | \$700.00
CHARLOTTE DERR, MD, RDMS, FACEP I BRET P. NELSON, MD, RDMS, FACEP
RICHARD PALMA, BS, RDGS, RCS, ACS, FASE, FSDMS I ROBERT ATNIP, MD, RVT, RPVI
LORI GREEN, BA, RDMS, RDGS, RVT I DAN BOURQUE, MS, RCS, FASE I TRISH REO, RDMS, RVT
POC-GPC211 ONLINE COURSE 18.25 AMA PRA Category 1 Credits™ + \$125.00.

TOPICS:

- POCUS Imaging Fundamentals
- Emergency Ultrasound for OB/GYN
- AAA & Aortic Endografts
- Abdominal Scanning Fundamentals
- Abdominal Cases in EM-Renal
- Abdominal Cases in EM-Biliary & AAA
- Venous Ultrasound for Point of Care
- Focused Cardiac Ultrasound
- Lung Ultrasound
- Soft Tissue and MSK Applications
- Pericardial Disease & Cardiac Masses
- Cardiac Case Studies: Cardiomyopathies
- Cardiac Case Studies: Focused Cardiac



POCUS MUSCULOSKELETAL SOFT TISSUE CERTIFICATION REVIEW ****NEW****

LORI GREEN, BA, RDMS, RDGS, RVT I CHARLOTTE DERR, MD, FACEP, RDMS | \$275.00
POC-MSKST211 ONLINE COURSE 2.75 AMA PRA Category 1 Credits™ + \$50.00.

TOPICS:

- Fundamentals & Tissue Characterization
- Foreign Body Localization & Removal
- Fracture Evaluation
- Evaluation of Tendon Injury
- Evaluation of Joint Effusion
- Baker's Cyst
- Guided Abscess Localization
- Evaluation of the Orbit

POINT OF CARE ULTRASOUND PRODUCTS

POINT OF CARE ULTRASOUND ONLINE COURSES (12 MONTHS ACCESS)



INTRODUCTION TO EMERGENCY MEDICINE ULTRASOUND (NEW!)

JAMES MATEER, MD, RDMS, BRETT NELSON, MD, RDMS, FACEP
CHARLOTTE DERR, MD, RDMS, FACEP, LORI GREEN, BA, RT(R), RDMS, RDGS, RVT | \$700.00
OC-EMU211 ONLINE COURSE 16.00 AMA PRA Category 1 Credits™ + \$125.00.

TOPICS:

- Ultrasound Imaging Fundamentals
- Emergency U/S for OB Conditions
- Emergency U/S for GYN Conditions
- Ectopic Pregnancy
- Spontaneous Abortion
- Pelvic Inflammatory Disease & Masses
- Ultrasound-Guided Vascular Access
- Abdominal Scanning Fundamentals
- U/S in Trauma: e-FAST & FAST Exam
- Abdominal Cases: Renal
- Abdominal Cases: Biliary & AAA
- Focused Cardiac Ultrasound
- Rapid U/S Shock & Hypotension
- U/S-Guided Emergency & Critical Care
- Eval. of Deep Vein Thrombosis (DVT)



INTRODUCTION TO CRITICAL CARE ULTRASOUND (NEW!)

JAMES MATEER, MD, RDMS, FACEP, RICHARD PALMA, BS, RDGS, RCS, ACS, FASE, FSDMS
LORI GREEN, BA, RT(R), RDMS, RDGS, RVT, BRETT NELSON, MD, RDMS, FACEP
CHARLOTTE DERR, MD, RDMS, FACEP, ANDREAS DEWITZ, MD, RDMS, FACEP
ALEXANDER LEVITOV, MD, FACP, FACCM, RDGS | \$695.00
OC-CCU201 ONLINE COURSE 15.25 AMA PRA Category 1 Credits™ + \$125.00.

TOPICS:

- Imaging Fundamentals
- Abdominal Scan Fundamentals
- U/S Evaluation of the Aorta
- Focused Assessment in Trauma
- Basic Lung Applications
- Advanced Lung Applications
- Ultrasound-Guided Vascular Access
- Ultrasound-Guided Procedures
- Focused Cardiac Ultrasound
- Rapid U/S Shock & Hypotension
- Venous Ultrasound for Point of Care
- Ultrasound Applications for COVID-19



TRAUMA & ACUTE CARE SONOGRAPHY

CHARLOTTE DERR, MD, RDMS, FACEP, LORI GREEN, BA, RT(R), RDMS, RDGS, RVT
& JAMES MATEER, MD, RDMS | \$475.00
OC-UTR191 ONLINE COURSE 8.50 AMA PRA Category 1 Credits™ + \$75.00.

TOPICS:

- Imaging Fundamentals - The Basics
- Abdominal Scanning Fundamentals
- U/S in Trauma: FAST & e-FAST Exam
- U/S-Guided Vascular Access in Trauma
- U/S-Guided Nerve Blocks
- Soft Tissue/MSK Applications
- Focused Cardiac Ultrasound
- Cases in Trauma Ultrasound



U/S-GUIDED NERVE BLOCKS FOR EMERGENCY MEDICINE (HOT ITEM!)

CHARLOTTE DERR, MD, RDMS, FACEP, LORI GREEN, BA, RT, RDMS, RDGS, RVT | \$325.00
OC-UGRA171 ONLINE COURSE 4.00 AMA PRA Category 1 Credits™ + \$50.00.

TOPICS:

- Imaging Fundamentals - The Basics
- U/S-Guided Regional Anesthesia
- Upper Extremity Nerve Blocks
- Upper Extremity Nerve Blocks
- Upper Extremity Nerve Blocks
- Reimbursement



STARTING A POINT-OF-CARE ULTRASOUND PROGRAM

DAVID BAHNER, MD, RDMS, FASEM, FACEP
BRETT NELSON, MD, RDMS, FACEP | \$425.00
OC-UDP101 ONLINE COURSE 6.25 AMA PRA Category 1 Credits™ + \$75.00.

TOPICS:

- Director's Job Description
- Finances of an Ultrasound Program
- Purchasing an Ultrasound System
- Factors to Consider
- Evaluating Mechanism
- Image Archiving / Quality Assurance
- Setting up a Program
- Who Scans and Who Reviews
- Communication / Documentation
- Timelines, Training & Credentialing
- Navigating Department Support
- Q & A and Panel Discussions



GENERAL ULTRASOUND FOR AUSTERE/RURAL MEDICINE (NEW!)

CHARLOTTE DERR, MD, RDMS, FACEP, LORI GREEN, BA, RDMS, RDGS, RVT
BRETT NELSON, MD, RDMS, FACEP, JAMES MATEER, MD, RDMS | \$625.00
OC-GUAR201 ONLINE COURSE 12.50 AMA PRA Category 1 Credits™ + \$125.00.

TOPICS:

- Imaging Fundamentals
- Emergency Medicine for OB/GYN
- Ectopic Pregnancy
- Spontaneous Abortion
- PID & Masses
- Ultrasound Guided Vascular Access
- Abdominal Cases in EM-Renal
- Abdominal Cases in EM-Biliary & AAA
- Ultrasound Evaluation of DVT
- Soft Tissue/MSK Ultrasound
- Scrotal Ultrasound
- Abdominal Scanning Fundamentals



PRE-HOSPITAL ULTRASOUND (NEW!)

CHARLOTTE DERR, MD, RDMS, FACEP, LORI GREEN, BA, RDMS, RDGS, RVT
BRETT NELSON, MD, RDMS, FACEP, JAMES MATEER, MD, RDMS
CHRISTIE HILL JORDAN, BS, RDGS, RCS, ACS, FASE | \$595.00
OC-PHU201 ONLINE COURSE 11.25 AMA PRA Category 1 Credits™ + \$125.00.

TOPICS:

- Imaging Fundamentals
- Abdominal Scanning Fundamentals
- Evaluation of the Abdominal Aorta
- E-FAST
- Thoracic Ultrasound
- Cardiac Anatomy/Physiology
- Focused Cardiac Ultrasound
- RUSH Examination
- Ultrasound Guided Vascular Access
- PID & Masses



INTRODUCTION TO ULTRASOUND-GUIDED PERIPHERAL IV INSERTION (NEW!)

MICHAEL PRATIS, MD, LORI GREEN, BA, RDMS, RDGS, RVT
MARK SWANSON, RDMS, RVT | \$300.00
OC-UGPI211 ONLINE COURSE 3.50 AMA PRA Category 1 Credits™ + \$50.00.

TOPICS:

- Imaging Fundamentals
- Ultrasound Guided Vascular Access
- Ultrasound Guided Vascular Access
- Ultrasound Guided Peripheral Access Scan Demo



INTRODUCTION TO ULTRASOUND-GUIDED REGIONAL ANESTHESIA (NEW!)

MICHAEL HERRICK, MD | \$455.00
OC-AES191 ONLINE COURSE 6.50 AMA PRA Category 1 Credits™ + \$75.00.

TOPICS:

- Indications & Applications for Ultrasound-Guided Regional Anesthesia
- Upper Extremity Nerve Blocks: Anatomy, Scanning & Injection Techniques
- Lower Extremity Nerve Blocks: Anatomy, Scanning & Injection Techniques
- Truncal Blocks & Scanning Demonstrations



ADVANCED EMERGENCY MEDICINE AND CRITICAL CARE ULTRASOUND

CHARLOTTE DERR, MD, RDMS, FACEP, DANIEL BOURQUE, MS, BS, RCS, FASE
JAMES MATEER, MD, RDMS, BRETT NELSON, MD, RDMS, FACEP
ALEXANDER LEVITOV, MD, FACP, FACCM, RDGS
LORI GREEN, BA, RT(R), RDMS, RDGS, RVT | \$730.00
OC-AEM191 ONLINE COURSE 19.00 AMA PRA Category 1 Credits™ + \$125.00.

TOPICS:

- Focused Cardiac U/S
- Intro. to Cardiac Doppler U/S
- Cardiomyopathies
- Pericardial Effusions & Cardiac Masses
- Heart Failure & Left Ventricular Dysynchrony
- Eval. of Coronary Artery Disease
- Adv. Lung U/S Applications
- Hydration Status/Fluid Responsiveness
- Sonography in Shock & Sepsis
- Adv. U/S-Guided Procedures
- U/S-Guided Peripheral Vascular Access
- Doppler & Color Flow Imaging
- Sonography of the Acute Scrotum
- Nerve Blocks in Emergency Medicine



ULTRASOUND-GUIDED VASCULAR ACCESS: A COMPREHENSIVE GUIDE

ANDREAS DEWITZ, MD, RDMS, FACEP & LORI GREEN, BA, RDMS, RDGS, RVT | \$350.00
OC-UGVA181 ONLINE COURSE 4.25 AMA PRA Category 1 Credits™ + \$50.00.

TOPICS:

- Fundamentals of UGVA
- U/S Guided Peripheral Line Placement
- Direct vs. Indirect Techniques
- In Plane vs. Out of Plane Techniques
- Vessel Differentiation & Procedural Tips
- U/S-Guided Central Line Placement
- IJ, Axillary/Subclavian & Femoral Vein Access
- Why Use Ultrasound Guidance?
- Peripheral Line Placement
- Antecubital Vein Access
- Additional Access Sites
- Pediatric Patient
- Clinical Cases
- Ultrasound Probe Cover Demo



FOCUSED ECHOCARDIOGRAPHY (NEW!)

JAMES MATEER, MD, RDMS, LORI GREEN, BA, RDMS, RDGS, RVT
DAN BOURQUE, MS, RCS, FASE, CHRISTIE JORDAN, BS, RDGS, RCS, ACS, FASE
RICHARD PALMA, BS, RDGS, RCS, ACS, FASE, FSDMS | \$600.00
OC-FECD201 ONLINE COURSE 11.50 AMA PRA Category 1 Credits™ + 125.00.

TOPICS:

- Echo Imaging Fundamentals
- Anatomy of the Heart and EKG
- 2D Eval. of Cardiac Anatomy
- Introduction to Cardiac Doppler
- Pericardial Disease
- 2-D, Color & Doppler Echo Protocol
- Live Demo 2D and Color flow Doppler
- Ultrasound Evaluation of Heart Failure
- Echo Eval. of Coronary Artery Disease
- Differential Diagnosis of Shock & Trauma
- Case Studies



USE OF ULTRASOUND IN COVID-19 (NEW!)

JAMES MATEER, MD, RDMS, LORI GREEN, BA, RDMS, RDGS, RVT
BRETT NELSON, MD, RDMS, FACEP, CHARLOTTE DERR, MD, RDMS, FACEP
ALEXANDER LEVITOV, MD, FACP, FACCM, RDGS | \$560.00
OC-COV201 ONLINE COURSE 8.50 AMA PRA Category 1 Credits™ + 75.00.

TOPICS:

- Imaging Fundamentals
- Abdominal Scan Fundamentals
- Thoracic Ultrasound
- RUSH Examination
- Focused Cardiac Ultrasound
- Evaluation of DVT
- Use of Ultrasound in Evaluation of Covid
- Case Studies and Scan Demonstrations



TRAUMA ULTRASOUND IN AUSTERE/RURAL MEDICINE (NEW!)

JAMES MATEER, MD, RDMS, LORI GREEN, BA, RDMS, RDGS, RVT
BRETT NELSON, MD, RDMS, FACEP, CHARLOTTE DERR, MD, RDMS, FACEP | \$650.00
OC-TUAR201 ONLINE COURSE 14.25 AMA PRA Category 1 Credits™ + 125.00.

TOPICS:

- Imaging Fundamentals
- Abdominal Scan Fundamentals
- FAST & E-FAST
- Thoracic Ultrasound
- Focused Cardiac Ultrasound
- RUSH Examination
- Ultrasound-Guided EM & CCU Procedures
- Ultrasound Guided Vascular Access
- Soft Tissue/MSK Ultrasound
- Ultrasound Guided Nerve Blocks for EM
- Cases in Trauma Ultrasound



ULTRASOUND APPLICATIONS IN AUSTERE/RURAL MEDICINE (NEW!)

JAMES MATEER, MD, RDMS, LORI GREEN, BA, RDMS, RDGS, RVT
BRETT NELSON, MD, RDMS, FACEP, CHARLOTTE DERR, MD, RDMS, FACEP | \$900.00
OC-UAR201 ONLINE COURSE 21.25 AMA PRA Category 1 Credits™ + 125.00.

TOPICS:

- Imaging Fundamentals
- EM U/S for OB/GYN Conditions
- Ectopic Pregnancy
- Spontaneous Abortion
- PID & Masses
- Ultrasound-Guided Vascular Access
- Abdominal Scanning Fundamentals
- FAST & E-FAST
- Abdominal Cases in EM-Renal
- Focused Cardiac Ultrasound
- RUSH Examination
- U/S Guided EM & Critical Care Procedures
- Evaluation of DVT
- Soft Tissue / MSK Ultrasound
- Ultrasound-Guided Nerve Blocks for EM
- Scrotal Ultrasound
- Cases in Trauma Ultrasound

POINT OF CARE ULTRASOUND PRODUCTS

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

Optional: 21.50 AMA PRA
Category 1 Credits™

CP-ED

**INTRODUCTION TO OB SONOGRAPHY: THE FIRST TRIMESTER** (52 mins.)SALVATORE LARUSSO, MD, RDMS, FAIUM, RT(R) | \$99.00 | ADD \$25.00 FOR CME QUIZ
OB1T DVD or ONLINE 1.25 AMA PRA Category 1 Credits™ ISBN # 978-1-945749-61-2**TOPICS:**

- Embryology, Indications for Study Gestational Sac, Yolk Sac, Embryo
- Age Determination, Multiple Gestation Pregnancy, Amnionity and Chorionicity
- Placenta, CRL, Landmarks, Heartbeat, Bleeding, Ectopic, Complications
- Hydatidiform Mole, Abnormal/Adesent Sac

**ABDOMINAL SCANNING FUNDAMENTALS** (59 mins.)LORI GREEN, BA, RT(R), RDMS, RDGS, RVT | \$99.00 | ADD \$25.00 FOR CME QUIZ
ABSF DVD or ONLINE 1.25 AMA PRA Category 1 Credits™ ISBN # 978-1-940954-61-5**TOPICS:**

- Primary Abdominal Landmarks
- Scan Orientation
- Anatomy Overview and Orientation
- Normal Structural & Vascular Characteristics
- Normal Measurement Values
- Abdominal Vasculature

**ULTRASOUND-GUIDED VASCULAR ACCESS** (133 mins.)ANDREAS DEWITZ, MD, RDMS, RDGS, RVT | \$225.00 | ADD \$25.00 FOR CME QUIZ
UGVA4 DVD or ONLINE 3.0 AMA PRA Category 1 Credits™ ISBN # 978-1-945749-41-4**TOPICS:**

- Fundamentals of US-Guided Vascular Access
- Peripheral Line Placement
- Direct vs. Indirect Techniques
- Antecubital Access Sites
- In-Plane vs. Out-of-Plane Techniques
- Pediatric Vascular Access
- Principles of Vessel Differentiation
- IJ, Axillary, Subclavian & Femoral Vein Access + More
- Central Line Placement

**ULTRASOUND EVALUATION OF THE ABDOMINAL AORTA** **NEW** (42 mins.)LORI GREEN, BA, RT(R), RDMS, RDGS, RVT | \$99.00 | ADD \$25.00 FOR CME QUIZ
AA3 DVD or ONLINE 1.0 AMA PRA Category 1 Credits™ ISBN # 978-1-945749-57-5**TOPICS:**

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

**ULTRASOUND IMAGING FUNDAMENTALS: THE BASICS** (65 mins.)LORI GREEN, BA, RT(R), RDMS, RDGS, RVT | \$99.00 | ADD \$25.00 FOR CME QUIZ
IF3 DVD or ONLINE 1.25 AMA PRA Category 1 Credits™ ISBN # 978-1-945749-47-6**TOPICS:**

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

**VENOUS ULTRASOUND FOR POINT OF CARE** **NEW** (56 mins.)LORI GREEN, BA, RT(R), RDMS, RDGS, RVT | \$99.00 | ADD \$25.00 FOR CME QUIZ
VPOC2 DVD or ONLINE 1.25 AMA PRA Category 1 Credits™ ISBN # 978-1-950973-71-2**SELECT TOPICS:**

- Venous Anatomy & Baker's Cyst
- Probe Compression Technique
- Complete vs. Focused Exams
- Normal and Abnormal Duplex Findings
- Transducer Selection / Patient Position
- Acute vs Chronic DVT + More

**CASES IN TRAUMA ULTRASOUND** **NEW** (52 mins.)CHARLOTTE DERR, MD, RDMS, FACEP | \$99.00 | ADD \$25.00 FOR CME QUIZ
CTRU2 DVD or ONLINE 1.25 AMA PRA Category 1 Credits™ ISBN # 978-1-950973-17-0**TOPICS:**

- Bladder Rupture
- Stab Wound to the Chest
- Traumatic Tendon Injury
- Splenic Injury
- Pericardial Effusion
- Fractures & Shoulder Dislocation
- Pneumothorax
- Foreign Body in Hand & Neck
- Traumatic Vision Loss
- Hemothorax
- Gun Shot Wound to Leg
- Head Injury with Vision Loss

**FOCUSED CARDIAC ULTRASOUND** (57 mins.)JAMES MATEER, MD, RDMS | \$99.00 | ADD \$25.00 FOR CME QUIZ
FCUS2 DVD or ONLINE 1.25 AMA PRA Category 1 Credits™ ISBN # 978-1-945749-42-1**SELECT TOPICS:**

- Focused Cardiac U/S Indications
- Focused Cardiac Ultrasound Protocols
- Cardiac Sonographic Anatomy
- Evaluation of LV Function
- Standard Imaging Views
- Standard Cardiac Measurements

**THORACIC ULTRASOUND: BASIC & ADVANCED TECHNIQUES** **NEW** (57 mins.)BRET NELSON, MD, RDMS, FACEP | \$99.00 | ADD \$25.00 FOR CME QUIZ
TU2 DVD or ONLINE 1.25 AMA PRA Category 1 Credits™ ISBN # 978-1-950973-70-5**TOPICS:**

- Imaging Principles
- Pneumothorax
- Pulmonary Edema
- Lung Consolidation
- Normal Lung
- A & B Lines
- Pleural Effusion
- COVID-19 & Blue Protocol

**FOCUSED ASSESSMENT WITH SONOGRAPHY IN TRAUMA (FAST)** (67 mins.)BRET NELSON, MD, RDMS, FACEP | \$99.00 | ADD \$25.00 FOR CME QUIZ
FAST3 DVD or ONLINE 1.5 AMA PRA Category 1 Credits™ ISBN # 978-1-950973-52-1**TOPICS:**

- Ultrasound Evaluations of the Hemoperitoneum, Hemopericardium, Hemothorax and Pneumothorax

**RAPID ULTRASOUND FOR SHOCK & HYPOTENSION** **NEW** (33 mins.)BRET NELSON, MD, RDMS, FACEP | \$99.00 | ADD \$25.00 FOR CME QUIZ
RUSH3 DVD or ONLINE 1.0 AMA PRA Category 1 Credits™ ISBN # 978-1-945749-99-5**TOPICS:**

- Eval. of the Heart; Contractility & Effusions
- Eval. of the Aorta; Diameter
- Eval. of Inferior Vena Cava; Diameter & Variation
- Eval. for Pneumothorax
- Eval. of Morison's Pouch; FAST Exam, Free Fluid
- Eval. of DVT/Pulmonary Embolus

**U/S-GUIDED PROCEDURES FOR EMERGENCY MEDICINE & CRITICAL CARE** (55 mins.)CHARLOTTE DERR, MD, RDMS, FACEP | \$99.00 | ADD \$25.00 FOR CME QUIZ
UECP2 DVD or ONLINE 1.25 AMA PRA Category 1 Credits™ ISBN # 978-1-945749-44-5**TOPICS:**

- Evaluation of Pneumothorax, Hemothorax & Pericardial Tamponade
- Ultrasound-Guided Procedures Including: Pericardiocentesis, Endotracheal Intubation, Thoracentesis, Paracentesis & Lumbar Puncture

**INTRODUCTION TO GYNECOLOGICAL SONOGRAPHY** (102 mins.)SALVATORE LARUSSO, MD, RDMS, FAIUM, RT(R) | \$129.00 | ADD \$25.00 FOR CME QUIZ
GYN3 DVD or ONLINE 2.00 AMA PRA Category 1 Credits™ ISBN # 978-1-945749-58-2**TOPICS:**

- GYN Landmarks
- Ligaments
- Uterus
- Musculature
- (Pouch of Douglas)
- Endometrium
- Bladder & Ureters
- Fallopian Tubes
- GYN Protocol
- Vagina
- Ovaries
- Transabdominal/Transvaginal Exam

**SCROTAL ULTRASOUND** (63 mins.)SALVATORE LARUSSO, MD, RDMS, FAIUM, RT(R) | \$99.00 | ADD \$25.00 FOR CME QUIZ
ASC3 DVD or ONLINE 1.50 AMA PRA Category 1 Credits™ ISBN # 978-1-950973-55-2**TOPICS:**

- Scrotal Anatomy / Physiology
- Scrotal Pathology
- Normal Ultrasound Characteristics
- Epididymal Pathology & Trauma

**EMERGENCY DEPARTMENT ULTRASOUND CASE STUDIES** (58 mins.)CHARLOTTE DERR, MD, RDMS, FACEP | \$99.00 | ADD \$25.00 FOR CME QUIZ
EDCS2 DVD or ONLINE 1.50 AMA PRA Category 1 Credits™ ISBN # 978-1-945749-26-1**TOPICS:**

- Tachycardiac Trauma
- Syncope & Shortness of Breath
- Chest Pain w/ Inspiration after MVA
- Cardiac Arrest
- Left Chest Stab Wound
- Hypotension after Dialysis + Much More.

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

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VL-AUP2 DVD/ONLINE 1.25 AMA PRA Category 1 Credits™ ISBN # 978-1-945749-73-5**TOPICS:**

- Foreign Body Localization & Removal
- Ultrasound-Guided Abscess Localization
- Fracture Evaluation
- Evaluation of the Orbit
- Evaluation of Tendon Injury
- Evaluation of Joint Effusion

**ULTRASOUND EVALUATION OF THE APPENDIX & GI TRACT** **NEW** (43 mins.)CHARLOTTE DERR, MD, RDMS, FACEP | \$99.00 | ADD \$25.00 FOR CME QUIZ
VL-AGI2 DVD/ONLINE 1.00 AMA PRA Category 1 Credits™ ISBN # 978-1-950973-41-5**TOPICS:**

- U/S Evaluation of the Pylorus
- Necrotizing Enterocolitis
- U/S Evaluation of Intussusception
- U/S Evaluation of the Appendix
- U/S Eval. of Small Bowel Obstruction
- U/S Evaluation of Chron's Disease + More

**ULTRASOUND CASES IN EMERGENCY ULTRASOUND** (61 mins.)CHARLOTTE DERR, MD, RDMS, FACEP | \$99.00 | ADD \$25.00 FOR CME QUIZ
VL-CEU2 DVD/ONLINE 1.50 AMA PRA Category 1 Credits™ ISBN # 978-1-945749-91-9**TOPICS:**

- Spectrum of Cholecystitis
- Congestive Heart Failure / Pulmonary Edema
- Acute, Gangrenous, Perforated
- Foreign Body Localization / Renal Mass
- Emphysematous, Pyelonephritis
- Hypertrophic Pyloric Stenosis
- Diverticulosis / Diverticulitis
- Salivary Gland Duct Stone
- Endocarditis
- Flexor Tenosynovitis / Vitreous Hemorrhage

**THORACIC ULTRASOUND: BASIC & ADVANCED TECHNIQUES** (57 mins.)BRET NELSON, MD, RDMS, FACEP | \$99.00 | ADD \$25.00 FOR CME QUIZ
TU2 DVD or ONLINE 1.25 AMA PRA Category 1 Credits™ ISBN # 978-1-950973-70-5**TOPICS:**

- Lung Imaging Principles: Transducer Selection, Sound Interaction & Artifacts
- U/S Assessment of Pneumothorax, Pleural Effusion, A/B Lines & Pulmonary Edema

**DOPPLER & COLOR FLOW IMAGING: FUNDAMENTALS FOR POINT-OF-CARE APPLICATIONS**LORI GREEN, BA, RT(R), RDMS, RDGS, RVT | \$99.00 | ADD \$25.00 FOR CME QUIZ (52 mins.)
VL-DCFP DVD/ONLINE 1.50 AMA PRA Category 1 Credits™ ISBN # 978-1-940954-50-9**TOPICS:**

- Doppler Principles
- Effects of Doppler Angle
- Doppler Applications in POC Settings
- The Doppler Equation
- Doppler Instrumentation
- Doppler/Color Controls & How to Optimize

**ULTRASOUND-GUIDED UPPER EXTREMITY NERVE BLOCKS FOR EMERGENCY MEDICINE** **NEW**ANDREAS DEWITZ, MD, RDMS, FACEP | \$129.00 | ADD \$25.00 FOR CME QUIZ (99 mins.)
VL-EMNB1 DVD/ONLINE 2.25 AMA PRA Category 1 Credits™ ISBN # 978-1-945749-40-7**TOPICS:**

- Overview
- Interscalene, Supraclavicular, Brachial Plexus
- Case Studies
- Indications & Applications
- Axillary Plexus, Forearm, Cervical Plexus
- Billing & Coding

**ULTRASOUND-GUIDED LOWER EXTREMITY NERVE BLOCKS FOR EMERGENCY MEDICINE** **NEW**ANDREAS DEWITZ, MD, RDMS, FACEP | \$129.00 | ADD \$25.00 FOR CME QUIZ (116 mins.)
VL-EMNB2 DVD/ONLINE 2.50 AMA PRA Category 1 Credits™ ISBN # 978-1-945749-39-1**TOPICS:**

- Overview
- Anatomic Territories, Femoral Nerve, SFASST
- Case Studies
- Indications & Applications
- Sciatic Nerve, Ankle, TAP, PEG1 & II + More
- Billing & Coding

PEDIATRIC POINT OF CARE ULTRASOUND PRODUCTS

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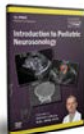
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ULTRASOUND IMAGING FUNDAMENTALS: THE BASICS (65 mins.)
LORI GREEN, BA, RT(R), RDMS, RDGS, RVT | \$99.00 | ADD \$25.00 FOR CME QUIZ
IF3 DVD or ONLINE 1.25 AMA PRA Category 1 Credits™ ISBN # 978-1-945749-47-6

TOPICS:

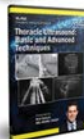
- Sound Generation & Basic Principles
- Transducers & Imaging Artifacts
- System Controls & Image Quality



INTRODUCTION TO PEDIATRIC NEUROSONOLOGY **NEW** (96 mins.)
SALVATORE LARUSSO, MD, RDMS, FAUM, RT(R) | \$129.00 | ADD \$25.00 FOR CME QUIZ
PNH2 DVD or ONLINE 2.0 AMA PRA Category 1 Credits™ ISBN # 978-1-950973-01-9

SELECT TOPICS:

- Indications of Neurosonology
- Vascular Abnormalities
- Scan Protocols & Normal Characteristics
- Neural Tube Disorders
- Malformation Disorders
- Agenesis Corpus Callosum + More.



THORACIC ULTRASOUND: BASIC & ADVANCED TECHNIQUES **NEW** (57 mins.)
BRET NELSON, MD, RDMS, FACEP | \$99.00 | ADD \$25.00 FOR CME QUIZ
TU2 DVD or ONLINE 1.25 AMA PRA Category 1 Credits™ ISBN # 978-1-950973-70-5

TOPICS:

- Basic Principles & Consolidation
- A & B Lines & Pleural Effusion
- Sound Interaction/Imaging Artifacts
- Intubation: Trachea vs' Esophagus
- Pneumothorax & Pleural Effusion
- BLUE & FALLS Protocols



ULTRASOUND EVAL. OF THE PEDIATRIC GENITOURINARY SYSTEM (50 mins.)
SALVATORE LARUSSO, MD, RDMS, FAUM, RT(R) | \$99.00 | ADD \$25.00 FOR CME QUIZ
PGU2 DVD or ONLINE 1.25 AMA PRA Category 1 Credits™ ISBN # 978-1-945749-96-4

SELECT TOPICS:

- Normal Development Anatomy
- Ureterocele & Hemorrhage
- Renal Cystic & Inflammatory Disease
- Scanning Techniques
- Renal Variants & Congenital Obstructions
- Adrenals, Tumors & Neoplasms



ULTRASOUND EVALUATION OF THE PEDIATRIC HIP **NEW** (41 mins.)
MICHAEL HULSE, D.O. | \$99.00 | ADD \$25.00 FOR CME QUIZ
PHE2 DVD or ONLINE 1.0 AMA PRA Category 1 Credits™ ISBN # 978-1-950973-03-3

TOPICS:

- Indications for Performing Hip U/S
- Developmental Dysplasia & Embryology
- Normal Hip Anatomy
- Scanning Infants in Pavlik Harness
- Two-Step Dynamic Technique
- Scanning Techniques & Protocols + More.



ULTRASOUND EVAL. OF THE PEDIATRIC GASTROINTESTINAL TRACT (48 mins.)
MICHAEL HULSE, D.O. | \$99.00 | ADD \$25.00 FOR CME QUIZ
PGI2 DVD or ONLINE 1.25 AMA PRA Category 1 Credits™ ISBN # 978-1-945749-95-7

TOPICS:

- Neonatal Cholelasis
- Hypertrophic Pyloric Stenosis
- Meckel's Diverticulum
- Biliary Atresia
- Intussusception
- Appendicitis
- Choledochal Cyst
- Malrotation
- Liver Masses
- Acute Abdomen
- Duplication Cyst
- Trauma



ABDOMINAL SCANNING FUNDAMENTALS **NEW** (59 mins.)

LORI GREEN, BA, RT(R), RDMS, RDGS, RVT | \$99.00 | ADD \$25.00 FOR CME QUIZ
ABS2 DVD or ONLINE 1.25 AMA PRA Category 1 Credits™ ISBN # 978-1-950973-72-9

TOPICS:

- Anatomy Landmarks
- Normal Structural & Vascular Characteristics
- Anatomy Overview & Orientation
- Abdominal Vasculature
- Scan Orientation & Patient Positioning
- Normal Measurement Values



ULTRASOUND EVALUATION OF THE PEDIATRIC THYROID AND NECK (39 mins.)

SALVATORE LARUSSO, MD, RDMS, RT(R) | \$99.00 | ADD \$25.00 FOR CME QUIZ
PTN DVD or ONLINE 1.0 AMA PRA Category 1 Credits™ ISBN # 978-1-945749-97-1

TOPICS:

- Normal Neck & Thyroid: Anatomy & Physiology
- Benign & Malignant Findings
- Diffuse Disease: Hashimoto's and Graves' Disease
- Imaging Protocol
- Nodular Disease, Goiter
- Parathyroid



ULTRASOUND EVALUATION OF THE NEONATAL SPINE **NEW** (50 mins.)

MICHAEL HULSE, D.O. & SAL LARUSSO, MD, RDMS, FAUM, RT(R) | \$99.00 | ADD \$25.00 FOR CME QUIZ
PSU2 DVD or ONLINE 1.25 AMA PRA Category 1 Credits™ ISBN # 978-1-950973-02-6

TOPICS:

- Normal Developmental Anatomy
- Congenital Obstructions
- Ultrasound Scanning Techniques
- Renal Cystic & Inflammatory Disease
- Renal Variants / Ureterocele
- Adrenals and Hemorrhage
- Congenital Anomalies
- Tumors and Neoplasms

PEDIATRIC EMERGENCY & CRITICAL CARE | DVD COURSE PACK \$1070

Optional: 13.75 AMA PRA
Category 1 Credits™

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ULTRASOUND IMAGING FUNDAMENTALS: THE BASICS **NEW** (65 mins.)
LORI GREEN, BA, RT(R), RDMS, RDGS, RVT | \$99.00 | ADD \$25.00 FOR CME QUIZ
IF3 DVD or ONLINE 1.25 AMA PRA Category 1 Credits™ ISBN # 978-1-945749-47-6

TOPICS:

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



FOCUSED CARDIAC ULTRASOUND IN THE PEDIATRIC PATIENT **NEW** (39 mins.)
DAVID TENG, MD | \$99.00 | ADD \$25.00 FOR CME QUIZ
PFCUS2 DVD or ONLINE 1.0 AMA PRA Category 1 Credits™ ISBN # 978-1-950973-67-5

TOPICS:

- Focused Cardiac Protocol
- Eval. of Cardiac Contractility
- Tamponade
- Standard Imaging Views
- Evaluation of LV Function
- Cardiac Arrest
- Focused Cardiac Anatomy
- Eval. of Pericardial Effusion



ABDOMINAL SCANNING FUNDAMENTALS **NEW** (59 mins.)
LORI GREEN, BA, RT(R), RDMS, RDGS, RVT | \$99.00 | ADD \$25.00 FOR CME QUIZ
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TOPICS:

- Anatomy Landmarks
- Normal Structural & Vascular Characteristics
- Anatomy Overview & Orientation
- Abdominal Vasculature
- Scan Orientation & Patient Positioning
- Normal Measurement Values



SCROTAL ULTRASOUND IN THE PEDIATRIC EM PATIENT **NEW** (35 mins.)
DAVID TENG, MD | \$99.00 | ADD \$25.00 FOR CME QUIZ
PSEM DVD or ONLINE 1.00 AMA PRA Category 1 Credits™ ISBN # 978-1-950973-11-8

TOPICS:

- Ultrasound Eval. of Hydrocele
- Ultrasound Eval. of Inguinal Hernia
- Ultrasound Eval. of Testicular Torsion
- Ultrasound Eval. of Infiltrative Disease



SHOCK & HYPOTENSION IN THE PEDIATRIC PATIENT: RUSH PROTOCOL **NEW** (41 mins.)
STEPHANIE DONIGER, MD, RDMS, FAAP, FACEP | \$99.00 | ADD \$25.00 FOR CME QUIZ
PRUSH2 DVD or ONLINE 1.00 AMA PRA Category 1 Credits™ ISBN # 978-1-950973-66-8

TOPICS:

- Heart Contractility & Pericardial Effusion
- Abdominal Aorta: Diameter
- Inferior Vena Cava: Diameter & Variation
- Pneumothorax & Pleural Effusions
- Morison's Pouch; FAST Exam & Free Fluid
- Pulmonary Edema, Case Studies & More.



SOFT-TISSUE & MSK ULTRASOUND IN THE PEDIATRIC PATIENT **NEW** (45 mins.)
STEPHANIE DONIGER, MD, RDMS, FAAP, FACEP | \$99.00 | ADD \$25.00 FOR CME QUIZ
PSM3 DVD or ONLINE 1.25 AMA PRA Category 1 Credits™ ISBN # 978-1-950973-00-2

TOPICS:

- Cellulitis & Abscess
- Foreign Body Localization & Removal
- Necrotizing Fasciitis
- Tendon Injuries, Joint Effusions & Dislocations
- Fracture Evaluation & Reduction
- Ultrasound-Guided Nerve Blocks



GI TRACT ULTRASOUND IN PEDIATRIC ULTRASOUND **NEW** (71 mins.)

STEPHANIE DONIGER, MD, RDMS, FAAP, FACEP | \$99.00 | ADD \$25.00 FOR CME QUIZ
PGIEM DVD or ONLINE 1.5 AMA PRA Category 1 Credits™ ISBN # 978-1-950973-07-1

TOPICS:

- Indications, applications, & limitations of U/S Eval. of the Pediatric GI Tract
- Scan techniques, protocols & diagnostic criteria associated with the U/S evaluation of the Pediatric GI Tract
- Ultrasound Evaluation of the Appendix, Intussusception & Pyloric Stenosis



F.A.S.T. EXAM IN THE PEDIATRIC PATIENT **NEW** (46 mins.)

DAVID TENG, MD | \$99.00 | ADD \$25.00 FOR CME QUIZ
PFAST DVD or ONLINE 1.25 AMA PRA Category 1 Credits™ ISBN # 978-1-950973-06-4

TOPICS:

- Ultrasound Eval. of Hemoperitoneum
- Ultrasound Eval. of Hemothorax
- Ultrasound Eval. of Hemopericardium
- Ultrasound Eval. of Pneumothorax



ADVANCED THORACIC ULTRASOUND FOR THE PEDIATRIC PATIENT **NEW** (52 mins.)

BRET NELSON, MD, RDMS, FACEP | \$99.00 | ADD \$25.00 FOR CME QUIZ
PATA DVD or ONLINE 1.25 AMA PRA Category 1 Credits™ ISBN # 978-1-945749-33-9

TOPICS:

- Intubation: Trachea vs' Esophagus
- BLUE Protocol
- Lung Consolidation
- FALLS Protocol



ULTRASOUND-GUIDED PROCEDURES IN THE PEDIATRIC PATIENT **NEW** (51 mins.)

STEPHANIE DONIGER, MD, RDMS, FAAP, FACEP | \$99.00 | ADD \$25.00 FOR CME QUIZ
PUGP2 DVD or ONLINE 1.00 AMA PRA Category 1 Credits™ ISBN # 978-1-950973-68-2

TOPICS:

- Patient & Probe Preparation
- Central & Peripheral Lines
- In plane & Out of Plane Techniques
- Lumbar Puncture



HEAD & NECK ULTRASOUND IN THE PEDIATRIC EMERGENCY PATIENT **NEW** (31 mins.)

STEPHANIE DONIGER, MD, RDMS, FAAP, FACEP | \$99.00 | ADD \$25.00 FOR CME QUIZ
PHNEM DVD or ONLINE 1.0 AMA PRA Category 1 Credits™ ISBN # 978-1-950973-13-2

TOPICS:

- Endotracheal Tube Placement
- Peritonsillar Abscess
- Lymph Node Evaluation
- Swallowed Con Location
- Neck Abscess
- Thyroid Mass
- Lymphoma, Cat Scratch
- Parotitis & Ear Abscess
- Bartonella, & Ocular
- Sjogrens, Sosis, & Sinusitis
- Lemierre's Syndrome
- Branchial Cleft Cysts
- Thyroglossal Duct Cyst
- Cystic Hygroma
- Fibromatosis Coli



FOCUSED GENITOURINARY ULTRASOUND IN THE PEDIATRIC EM PATIENT **NEW** (35 mins.)

DAVID TENG, MD | \$99.00 | ADD \$25.00 FOR CME QUIZ
PGUEM DVD or ONLINE 1.00 AMA PRA Category 1 Credits™ ISBN # 978-1-950973-12-5

TOPICS:

- Eval. of the Normal Kidneys & Urinary Bladder
- Evaluation of Renal Stones
- Eval. of Renal Cysts and Hydronephrosis
- Evaluation of Renal Masses

POINT OF CARE ULTRASOUND PRODUCTS

U/S PHYSICS GENERAL & DOPPLER | DVD COURSE PACK \$322

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ULTRASOUND IMAGING FUNDAMENTALS: THE BASICS (65 mins.)
LORI GREEN, BA, RT(R), RDMS, RDGS, RVT | \$99.00 | ADD \$25.00 FOR ONE QUIZ
IF3 DVD or ONLINE 1.25 AMA PRA Category 1 Credits™ ISBN # 978-1-945749-47-6

TOPICS:

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



DOPPLER & COLOR FUNDAMENTALS: VASCULAR ULTRASOUND **NEW** (106 mins.)
LORI GREEN, BA, RT(R), RDMS, RDGS, RVT | \$129.00 | ADD \$25.00 FOR ONE QUIZ
DP3 DVD or ONLINE 2.00 AMA PRA Category 1 Credits™ ISBN # 978-1-945749-69-8

TOPICS:

- Doppler Principles / Doppler Equation
- Doppler Interrogation Angle
- Doppler Instrumentation
- Doppler Artifacts
- Optimization of Doppler / Color Controls
- Color Assignment
- Power Doppler Indications & Applications

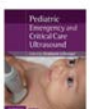


INTRODUCTION TO CARDIAC DOPPLER ULTRASOUND (87 mins.)
DANIEL BOURQUE, MS, RCS, FASE | \$99.00 | ADD \$25.00 FOR ONE QUIZ
VL-CDU2 DVD/ONLINE 1.0 AMA PRA Category 1 Credits™ ISBN # 978-1-945749-70-4

TOPICS:

- Indications for Doppler Echocardiography
- Basic Spectral Doppler Concepts
- The Doppler Principle/Doppler Shift
- Impact of Doppler Angle
- The Bernoulli Equation
- CW Verses PW Doppler
- Doppler Artifacts
- Spectral Doppler Sample Sites, Flow Direction, and Timing of Flow
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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 & Biliary 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.

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Diagnostic Medical Sonography
Program of Denver
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LORI GREEN, BA, RT(R), RDMS, RDMS, RVT
Program Director
Gulfcoast Ultrasound Institute
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CHARLOTTE DERR, M.D., RDMS, FACEP
Associate Program Director
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October 27-28, 2022 OE-221

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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
- ◆ Scan Protocol (TAS and TVS)
- ◆ GYN Anatomy & Pathology
- ◆ Lifetime Access to Digital Course Syllabus
- ◆ Fetal Survey & Biometry
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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.

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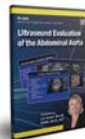
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ULTRASOUND EVALUATION FOR PELVIC PAIN (67 mins.)

SALVATORE LARUSSO, M.D., RDMS, FAIUM, RT(R) | \$129.00 | ADD \$25.00 FOR CME QUIZ
UPP DVD or ONLINE 2.0 AMA PRA Category 1 Credits™ ISBN # 978-1-945749-02-5

TOPICS:

- Ultrasound Evaluation of True Emergencies
- Ultrasound Evaluation of Pelvic Pathology that requires treatment
- Ultrasound Evaluation of Pelvic Pain that requires treatment
- Sonography of Annoying Pain



DOPPLER EVALUATION OF THE FETAL HEART (53 mins.)

JILL BEITHON, RT(R), RDMS, RDGS, RVT | \$99.00 | ADD \$25.00 FOR CME QUIZ
FEDHD DVD or ONLINE 1.00 AMA PRA Category 1 Credits™ ISBN # 978-1-932680-97-3

TOPICS:

- Anatomy & Electrophysiology
- Mechanical PR Interval
- Color & Spectral Doppler
- TEI Index
- Valvular Regurgitation



FETAL ABDOMINAL ABNORMALITIES (47 mins.)

JANE BURNS, AS, RT, RDMS | \$99.00 | ADD \$25.00 FOR CME QUIZ
FAA DVD or ONLINE 1.0 AMA PRA Category 1 Credits™ ISBN # 978-1-940954-78-3

SELECTED TOPICS:

- Ebstein's Anomaly
- Echogenetic Fetal Bowel
- Ebbryology Facts
- Small Bowel Obstruction
- Esophageal Atresia
- Meconium Peritonitis
- Duodenal Obstruction & Atresia
- Large Bowel Obstruction + Much More.



FETAL HEART CASE STUDIES (33 mins.)

JANE BURNS, AS, RT, RDMS | \$99.00 | ADD \$25.00 FOR CME QUIZ
FHC DVD or ONLINE 1.00 AMA PRA Category 1 Credits™ ISBN # 978-1-945749-13-1

TOPICS:

- Ebstein's Anomaly
- Mesocardia
- Echogenic Cardiac Focus
- VSD & ASD
- Cardiac Masses
- Hypoplastic Left Heart
- Hypoplastic Right Heart
- Tetralogy of Fallot
- Transposition of Great Vessels
- Coarctation of Aorta
- Double Outlet Right Ventricle
- Truncus Arteriosus



GENETIC SCREENING IN THE 1ST & 2ND TRIMESTER (53 mins.)

JANE BURNS, AS, RT, RDMS | \$99.00 | ADD \$25.00 FOR CME QUIZ
GSS DVD or ONLINE 1.5 AMA PRA Category 1 Credits™ ISBN # 978-1-940954-35-6

TOPICS:

- Reason for Ultrasound Genetic Screening
- Components of a Genetic Screening Sonogram
- Nuchal Translucency Screen / Features of Triploidy
- Targeted vs. Standard Ultrasound Scan (AIUM Guidelines)
- Major & Minor Markers to Identify
- Features of Down Syndrome, Edwards, Patau, and Turner's Syndrome
- Abnormal Cases: ie. Cystic Hygroma, CPC, Ventriculomegaly, + More.



BREAST PROTOCOL MANUAL

TRUDIE LAYTON, RDMS, RVT, RT(R)(M)(CT) | \$69.95 | ADD \$25.00 FOR CME QUIZ
PM-BR2 BOOKLET+ONLINE 2.00 AMA PRA Category 1 Credits™ ISBN # 978-1-945749-62-9

TOPICS:

- Purpose & Indications
- Image Measurements & Annotation
- Physical Assessment
- Normal Sonographic Characteristics
- Equipment Modifications
- Differentiation of Masses & Abnormalities
- Anatomy & Exam Procedures

PRIMARY CARE ULTRASOUND PRODUCTS

ENDOCRINOLOGY ULTRASOUND | DVD COURSE PACK \$268

Optional: 3.75 AMA PRA Category 1 Credits™

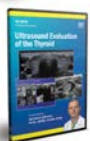
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ULTRASOUND IMAGING FUNDAMENTALS: THE BASICS (65 mins.)
LORI GREEN, BA, RT(R), RDMS, RDGS, RVT | \$99.00 | ADD \$25.00 FOR CME QUIZ
IF3 DVD or ONLINE 1.25 AMA PRA Category 1 Credits™, ISBN # 978-1-945749-47-6

TOPICS:

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



ULTRASOUND EVALUATION OF THE THYROID (50 mins.)
SALVATORE LARUSSO, M.D., RDMS, FAIUM, RT(R) | \$99.00 | ADD \$25.00 FOR CME QUIZ
UET2 DVD or ONLINE 1.25 AMA PRA Category 1 Credits™, ISBN # 978-1-945749-74-2

TOPICS:

- Thyroid & Parathyroid Anatomy/Physiology
- Thyroid Scan Protocols, Normal Thyroid Ultrasound Characteristics
- Ultrasound Eval. of the Thyroid Pathology, Goiter, Hyperplasia, Cyst, Adenoma, Carcinoma, Hashimoto's Disease, Graves' Disease, & Hyperparathyroidism



THYROID PATHOLOGY & ULTRASOUND-GUIDED INTERVENTION (65 mins.)
JENNIFER SIPOS, M.D. | \$99.00 | ADD \$25.00 FOR CME QUIZ
TPI DVD or ONLINE 1.25 AMA PRA Category 1 Credits™, ISBN # 978-1-934864-78-4

TOPICS:

- Ultrasound Characteristics of Benign & Suspicious Thyroid Nodules
- Ultrasound Examination Protocols of the Neck in Patients with Thyroid Cancer for Identification of Recurrent/Residual Disease
- Available Interventions for Ultrasound of the Neck Including the Various Ultrasound-Guided Fine Needle Aspiration Techniques

PRIMARY CARE / WOMEN'S HEALTH ONLINE COURSES (12 MONTHS ACCESS)



MIDWIFE SONOGRAPHY CERTIFICATE REVIEW

SALVATORE LARUSSO, M.D., RDMS, RT(R) JANE BURNS, AS, RT, RDMS | \$390.00
OC-MWS191 ONLINE COURSE 18.50 AMA PRA Category 1 Credits™ + \$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



ABDOMINAL & PRIMARY CARE ULTRASOUND

CHARLOTTE DERR, M.D., RDMS, FACEP SALVATORE LARUSSO, M.D., RDMS, FAIUM, RT(R) & LORI GREEN, BA, RT(R), RDMS, RDGS, RVT BRIAN SCHENKER, MBA, RDMS, RVT | \$840.00
OC-ABPC191 ONLINE COURSE 17.25 AMA PRA Category 1 Credits™ + \$125.00

TOPICS:

- Ultrasound Imaging Fundamentals
- Anatomy Fundamentals & Scan Techniques
- U/S Eval. of the Abdominal Aorta
- Normal Liver, Gallbladder & Biliary Tree
- U/S Eval. of Liver, Gallbladder & Biliary Tree
- Renal Ultrasound Imaging
- U/S Eval. of the Pancreas & Spleen
- Trauma Ultrasonography
- U/S Eval. of the Appendix & GI Tract
- Case Studies: Abdominal Sonography
- U/S Eval. of the Thyroid
- U/S Eval. of the Acute Scrotum
- U/S Eval. of the Soft Tissues
- Doppler/Color Imaging Fundamentals



INTRODUCTION TO THYROID ULTRASOUND **NEW**

JENNIFER SIPOS, MD | \$400.00
OC-TSD211 ONLINE COURSE 6.00 AMA PRA Category 1 Credits™ + \$75.00

TOPICS:

- Cervical Ultrasound Fundamentals
- Thyroid Anatomy, & Scan Techniques
- Evaluation of Thyroid Nodules
- Evaluation of Diffuse Thyroid Disorders
- Evaluation of Lymph Nodes
- Eval. of Non Thyroid Neck Anatomy
- Interventional Techniques
- Thyroid Case Studies



INTRODUCTION TO GYNECOLOGICAL ULTRASOUND

SALVATORE LARUSSO, M.D., RDMS, FAIUM, RT(R) & LORI GREEN, BA, RT(R), RDMS, RDGS, RVT | \$270.00
OC-GYN191 ONLINE COURSE 4.75 AMA PRA Category 1 Credits™ + \$50.00

TOPICS:

- Ultrasound Imaging Fundamentals: The Basics
- Gynecological Anatomy
- Gynecological Pathology / Case Studies



INTRODUCTION TO OBSTETRIC ULTRASOUND

AHMED AL-MALT, M.D., FACOG LORI GREEN, BA, RT(R), RDMS, RDGS, RVT
SALVATORE LARUSSO, M.D., RDMS, FAIUM, RT(R) JANE BURNS, AS, RT, RDMS | \$470.00
OC-OBS191 ONLINE COURSE 10.25 AMA PRA Category 1 Credits™ + \$75.00

TOPICS:

- Ultrasound Imaging Fundamentals: The Basics
- Introduction to OB Sonography; The First Trimester
- OB Fetal Survey; The 2nd & 3rd Trimester
- Generic Screening by Ultrasound in the 1st & 2nd Trimesters
- Fetal Anomalies
- Interesting OB Case Studies



THE FETAL HEART SCREENING EXAM **NEW**

JILL BETHON, RT, RDMS, RDGS, RVT | \$265.00
OC-FHS211 ONLINE COURSE 3.75 AMA PRA Category 1 Credits™ + \$50.00

TOPICS:

- Review of Current Practice Guidelines
- Fetal Heart Screening Exam Overview, Anatomy & Development
- 4-Chamber View Checklist
- Evaluation of the Outflow Tracts: LVOT & RVOT
- 3 Vessel/Trachea View



INTRODUCTION TO OB/GYN SONOGRAPHY

AHMED AL-MALT, M.D., FACOG LORI GREEN, BA, RT(R), RDMS, RDGS, RVT
SALVATORE LARUSSO, M.D., RDMS, FAIUM, RT(R) JANE BURNS, AS, RT, RDMS | \$670.00
OC-OBGYN191 ONLINE COURSE 13.25 AMA PRA Category 1 Credits™ + \$125.00

TOPICS:

- Ultrasound Imaging Fundamentals
- Intro. to Gynecological Sonography
- Intro. to Gynecological Pathology
- Intro. to OB Sonography; 1st Trimester
- OB Fetal Survey: 2nd & 3rd Trimesters
- Genetic Screening; 1st & 2nd Trimesters
- Fetal Anomalies
- Interesting OB Case Studies



ADVANCED OB/GYN ULTRASOUND APPLICATIONS

SAL LARUSSO, M.D., RDMS, RT(R) JANE BURNS, AS, RT, RDMS | \$375.00
OC-AOBG161 ONLINE COURSE 6.50 AMA PRA Category 1 Credits™ + \$75.00

TOPICS:

- Genetic Screening in the First and Second Trimesters
- Fetal Abdominal Variants and Anomalies
- OB Doppler: How, Why, and When?
- OB Case Studies
- Ultrasound Evaluation of Pelvic Pain



INTRODUCTION TO ABDOMINAL DOPPLER ULTRASOUND

LORI GREEN, BA, RT(R), RDMS, RDGS, RVT PHILLIP BENDICK, PH.D., RVT, FSDMS, FSVU
ROBERT ATNIP, M.D., RVT, RPVI | \$450.00
OC-ABDO201 ONLINE COURSE 8.75 AMA PRA Category 1 Credits™ + \$75.00

TOPICS:

- Imaging Fundamentals: The Basics
- Abdominal Doppler Physics
- Ultrasound Evaluation of the Abdominal Aorta
- Ultrasound Evaluation of Aortic Endografts
- Ultrasound Evaluation of Renal Artery Stenosis
- Mesenteric and Porto-Hepatic Duplex Sonography
- Introduction to Transplant Sonography



UROLOGY ULTRASOUND

SAL LARUSSO, M.D., RDMS, RT(R) ROBERT DE JONG JR., RDMS, RDGS, RVT
LORI GREEN, BA, RT, RDMS, RDGS, RVT | \$450.00
OC-URO201 ONLINE COURSE 6.50 AMA PRA Category 1 Credits™ + \$75.00

TOPICS:

- Imaging Fundamentals
- Abdominal Sonography Anatomy
- Renal Anatomy
- Renal Pathology
- Urinary Bladder Evaluation
- Prostate Anatomy & Scan Techniques
- Prostate Pathology
- Scrotal Anatomy
- Scrotal Pathology
- Penile Ultrasound
- Urology Case Studies



ULTRASOUND EVALUATION OF THE FETAL HEART **NEW**

EMILY DOWNS, BS, RDMS, RVT, RDGS, RT JANE BURNS, AS, RT, RDMS | \$325.00
OC-FH211 ONLINE COURSE 5.25 AMA PRA Category 1 Credits™ + \$75.00

TOPICS:

- Fetal Cardiac Anatomy and Circulation
- Overview of the Fetal Heart
- Evaluation of Fetal Heart Arrhythmias
- Fetal Heart Pathology

POINT OF CARE ULTRASOUND PRODUCTS

POINT OF CARE ULTRASOUND ONLINE COURSES (12 MONTHS ACCESS)



INTRODUCTION TO EMERGENCY MEDICINE ULTRASOUND

JAMES MATEER, MD, RDMS, FACEP, BRIET NELSON, MD, RDMS, FACEP
CHARLOTTE DERR, MD, RDMS, FACEP, LORI GREEN, BA, RT(R), RDMS, RDSCS, RVT | \$700.00
OC-EMU181 ONLINE COURSE 16.00 AMA PRA Category 1 Credits™

TOPICS:

- Ultrasound Imaging Fundamentals
- Emergency U/S for OB Conditions
- Emergency U/S for GYN Conditions
- Ectopic Pregnancy
- Spontaneous Abortion
- Pelvic Inflammatory Disease & Masses
- Ultrasound-Guided Vascular Access
- Abdominal Scanning Fundamentals
- U/S in Trauma: e-FAST & FAST Exam
- Abdominal Cases: Renal
- Abdominal Cases: Biliary & AAA
- Focused Cardiac Ultrasound
- Rapid U/S Shock & Hypotension
- U/S-Guided Emergency & Critical Care
- Eval. of Deep Vein Thrombosis (DVT)



INTRODUCTION TO CRITICAL CARE ULTRASOUND (NEW!)

JAMES MATEER, MD, RDMS, FACEP, RICHARD PALMA, BS, RDSCS, RCS, ACS, FASE, FSDMS
LORI GREEN, BA, RT(R), RDMS, RDSCS, RVT, BRIET NELSON, MD, RDMS, FACEP
CHARLOTTE DERR, MD, RDMS, FACEP, ANDREAS DEWITZ, MD, RDMS, FACEP
ALEXANDER LEVITOV, MD, FACCP, FACOM, RDSCS | \$695.00
OC-CCU171 ONLINE COURSE 15.25 AMA PRA Category 1 Credits™

TOPICS:

- Imaging Fundamentals
- Abdominal Scan Fundamentals
- U/S Evaluation of the Aorta
- Focused Assessment in Trauma
- Basic Lung Applications
- Advanced Lung Applications
- Ultrasound-Guided Vascular Access
- Ultrasound-Guided Procedures
- Focused Cardiac Ultrasound
- Rapid U/S Shock & Hypotension
- Venous Ultrasound for Point of Care
- Ultrasound Applications for COVID-19



TRAUMA & ACUTE CARE SONOGRAPHY (NEW!)

CHARLOTTE DERR, MD, RDMS, FACEP, LORI GREEN, BA, RT(R), RDMS, RDSCS, RVT
& JAMES MATEER, MD, RDMS | \$475.00
OC-UTR191 ONLINE COURSE 8.50 AMA PRA Category 1 Credits™

TOPICS:

- Imaging Fundamentals - The Basics
- Abdominal Scanning Fundamentals
- U/S in Trauma: FAST & e-FAST Exam
- U/S-Guided Vascular Access in Trauma
- U/S-Guided Nerve Blocks
- Soft Tissue/MSK Applications
- Focused Cardiac Ultrasound
- Cases in Trauma Ultrasound



U/S-GUIDED NERVE BLOCKS FOR EMERGENCY MEDICINE (HOT ITEM!)

CHARLOTTE DERR, MD, RDMS, FACEP, LORI GREEN, BA, RT, RDMS, RDSCS, RVT | \$325.00
OC-UGRA171 ONLINE COURSE 8.50 AMA PRA Category 1 Credits™

TOPICS:

- Imaging Fundamentals - The Basics
- U/S-Guided Regional Anesthesia
- Upper Extremity Nerve Blocks
- Upper Extremity Nerve Blocks
- Miscellaneous Nerve Blocks
- Reimbursement



STARTING A POINT-OF-CARE ULTRASOUND PROGRAM

DAVID BAHNER, MD, RDMS, FACEP, BRIET NELSON, MD, RDMS, FACEP
BRET NELSON, MD, RDMS, FACEP | \$425.00
OC-UDP181 ONLINE COURSE 6.25 AMA PRA Category 1 Credits™

TOPICS:

- Director's Job Description
- Finances of an Ultrasound Program
- Purchasing an Ultrasound System
- Factors to Consider
- Evaluating Mechanism
- Image Archiving / Quality Assurance
- Setting up a Program
- Who Scans and Who Reviews
- Communication / Documentation
- Timelines, Training & Credentialing
- Navigating Department Support
- Q & A and Panel Discussions



INTRODUCTION TO ULTRASOUND-GUIDED REGIONAL ANESTHESIA (NEW!)

MICHAEL HERRICK, MD | \$455.00
OC-AES191 ONLINE COURSE 6.50 AMA PRA Category 1 Credits™

TOPICS:

- Indications & Applications for Ultrasound-Guided Regional Anesthesia
- Upper Extremity Nerve Blocks: Anatomy, Scanning & Injection Techniques
- Lower Extremity Nerve Blocks: Anatomy, Scanning & Injection Techniques
- Truncal Blocks & Scanning Demonstrations



ADVANCED EMERGENCY MEDICINE AND CRITICAL CARE ULTRASOUND

CHARLOTTE DERR, MD, RDMS, FACEP, DANIEL BOURQUE, MS, BS, RCS, FASE
JAMES MATEER, MD, RDMS, BRIET NELSON, MD, RDMS, FACEP
ALEXANDER LEVITOV, MD, FACCP, FACOM, RDSCS
LORI GREEN, BA, RT(R), RDMS, RDSCS, RVT | \$730.00
OC-AEM191 ONLINE COURSE 19.00 AMA PRA Category 1 Credits™

TOPICS:

- Focused Cardiac U/S
- Intro. to Cardiac Doppler U/S
- Cardiomyopathies
- Pericardial Effusions & Cardiac Masses
- Heart Failure & Left Ventricular Dysynchrony
- Eval. of Coronary Artery Disease
- Adv. Lung U/S Applications
- Hydration Status/Fluid Responsiveness
- Sonography in Shock & Sepsis
- Adv. U/S-Guided Procedures
- U/S-Guided Peripheral Vascular Access
- Doppler & Color Flow Imaging
- Sonography of the Acute Scrotum
- Nerve Blocks in Emergency Medicine



ULTRASOUND-GUIDED VASCULAR ACCESS: A COMPREHENSIVE GUIDE

ANDREAS DEWITZ, MD, RDMS, FACEP & LORI GREEN, BA, RDMS, RDSCS, RVT | \$350.00
OC-UGVA181 ONLINE COURSE 4.25 AMA PRA Category 1 Credits™

TOPICS:

- Fundamentals of UGVA
- U/S Guided Peripheral Line Placement
- Direct vs. Indirect Techniques
- In Plane vs. Out of Plane Techniques
- Vessel Differentiation & Procedural Tips
- U/S-Guided Central Line Placement
- IJ, Axillary/Subclavian & Femoral Vein Access
- Ultrasound Probe Cover Demo
- Why use Ultrasound Guidance?
- Peripheral Line Placement
- Antecubital Vein Access
- Additional Access Sites
- Pediatric Patient
- Clinical Cases



FOCUSED ECHOCARDIOGRAPHY (NEW!)

JAMES MATEER, MD, RDMS, LORI GREEN, BA, RDMS, RDSCS, RVT
DAN BOURQUE, MS, RCS, FASE, CHRISTIE JORDAN, BS, RDSCS, RCS, FASE
RICHARD PALMA, BS, RDSCS, RCS, ACS, FASE, FSDMS | \$600.00
OC-FECD201 ONLINE COURSE 11.50 AMA PRA Category 1 Credits™

TOPICS:

- Echo Imaging Fundamentals
- Anatomy of the Heart and EKG
- 2D Eval. of Cardiac Anatomy
- Introduction to Cardiac Doppler
- Pericardial Disease
- 2-D, Color & Doppler Echo Protocol
- Live Demo 2D and Color flow Doppler
- Ultrasound Evaluation of Heart Failure
- Echo Eval. of Coronary Artery Disease
- Differential Diagnosis of Shock & Trauma
- Case Studies



USE OF ULTRASOUND IN COVID-19 (NEW!)

JAMES MATEER, MD, RDMS, LORI GREEN, BA, RDMS, RDSCS, RVT
BRET NELSON, MD, RDMS, FACEP, CHARLOTTE DERR, MD, RDMS, FACEP
ALEXANDER LEVITOV, MD, FACCP, FACOM, RDSCS | \$560.00
OC-COV201 ONLINE COURSE 8.50 AMA PRA Category 1 Credits™

TOPICS:

- Imaging Fundamentals
- Abdominal Scan Fundamentals
- Thoracic Ultrasound
- RUSH Examination
- Focused Cardiac Ultrasound
- Evaluation of DVT
- Use of Ultrasound in Evaluation of Covid
- Case Studies and Scan Demonstrations

EMERGENCY MEDICINE & CRITICAL CARE ULTRASOUND BOOKS

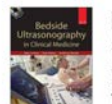


EMERGENCY ULTRASOUND 4TH ED. (720 pgs.)

O. JOHN MA, MD, JAMES MATEER, MD, RDMS, ROBERT REARDON, MD, & SCOTT JOING, MD | \$169.00
EU4 HARDBACK BOOK/DVD ISBN # 978-1-260-441-819 The McGraw-Hill Companies

TOPICS:

- Clinical & Anatomical Considerations & Indications
- Case Studies, Techniques, Pitfalls, & Common Abnormalities
- Coverage of Trauma, Cardiac, Critical Care, Pulmonary, Hepatobiliary, Renal, Testicular, and Other Ultrasound Applications (Includes DVD)

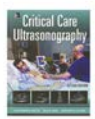


BEDSIDE ULTRASONOGRAPHY IN CLINICAL MEDICINE (316 pgs.)

ALEXANDER LEVITOV, MD, FACCP, RDSCS, PAUL DALLAS, MD, FACCP
& ANTHONY SLONIM, MD, DRPH | \$93.95
BUCM HARDBACK BOOK ISBN # 978-0071663311

TOPICS:

- High-Yield Overview of Basic Principles & Physics of Ultrasound
- Ultrasound Evaluation of Organs of the Head, Neck, Chest, Abdomen, Pelvis and Musculoskeletal System as it relates to Bedside Ultrasound (Includes DVD)

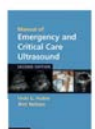


CRITICAL CARE ULTRASONOGRAPHY 2ND ED. (400 pgs.)

ALEXANDER LEVITOV, MD, FACCP, PAUL MAYO, MD, FACCP
ANTHONY SLONIM, MD, DRPH, FACCP | \$175.00
CCUS2 HARDBACK BOOK/DVD ISBN # 0071793526 The McGraw-Hill Companies

TOPICS:

- All-Inclusive Review of Optimal Use & Interpretation of Ultrasonographic images in everyday Critical Care Practice
- Ultrasound Principles & Eval. of the Head, Chest, MSK & U/S-Guided Procedures



MANUAL OF EMERGENCY & CRITICAL CARE ULTRASOUND 2ND ED. (346 pgs.)

BRET NELSON, MD, RDMS, FACEP & VICKI NOBLE, MD, RDMS, FACEP | \$87.95
MECCU2 SOFTBOUND BOOK ISBN # 978-0-52117091-8 Cambridge Univ. Press

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

VIRTUAL PHYSICS/SPI REGISTRY REVIEW COURSE (ONLINE ONLY)

SONOGRAPHY PRINCIPLES & INSTRUMENTATION (PHYSICS) May 25, 2022 RRSPI-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.
6. List the advantages of Doppler, Color Flow and Color Power Imaging.
7. Differentiate imaging artifacts by their cause and characteristic appearance.
8. Apply statistical test correlation and test validation using CHI Square principles regarding sensitivity, specificity 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
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This course meets CME/CEU requirements for ARDMS.

FACULTY:



BRYAN DODD, M.D., RDMS, RVT, RT(R)
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, BS, RDMS, 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.

VIRTUAL VASCULAR REGISTRY REVIEW COURSE (ONLINE ONLY)

VASCULAR ULTRASOUND

June 9-10, 2022

RRV-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 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 Gulfcoast 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
TUITIONStarting @
\$395

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

FACULTY:



MARSHA NEUMYER, BS, RVT, FSDMS, FSVU, FAIUM
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.

BONUS!

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.
3. State scanning protocols for performing shoulder, elbow, wrist/hand, knee, ankle, foot and hip ultrasound examinations.
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.

AMA CAT. I	16.00	This course meets CME/CEU requirements for ARDMS, APCA & ABIM.				
ADVANCED TUITION	\$1100	REGULAR TUITION	\$1300	VIRTUAL TUITION	\$1025	ONLINE COURSE TUITION
						Starting @ \$1115

FACULTY:



JON JACOBSON, M.D., RMSK
Professor of Radiology Director
Division of MSK Radiology
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 ARCENEUX, 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.

BONUS!

LIVE & VIRTUAL RPVI REGISTRY REVIEW COURSE

VASCULAR INTERPRETATION & RPVI REGISTRY REVIEW

March 31 - April 1, 2022 RPVI-221

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

1. Increase the participant's knowledge and competence to perform and/or 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 diagnosis/treatment accuracy.

COURSE FEATURES & TOPICS:

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

AMA CAT. I	16.00	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.					
ABIM MOC	16.00						
ADVANCED COURSE TUITION	\$1150	REGULAR COURSE TUITION	\$1350	VIRTUAL COURSE REGISTRATION	\$1095	ONLINE COURSE TUITION	\$1586

FACULTY:



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



MARSHA NEUMYER, BS, RVT, FSDMS, FSVU, FAIUM
CEO, International Director
Vascular Diagnostic Educational
Services & Vascular Resource
Associates
Harrisburg, 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, M.D.

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.

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. (RDMS 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. I

8.75

VIRTUAL COURSE
TUITION

\$325

ONLINE COURSE
TUITION

\$315

This course meets CME/CEU requirements for ARDMS.

FACULTY:



CHRISTIE HILL JORDAN, BS, RDMS, RCS, RCIS, FASE
Cardiovascular Technology Program Director,
Florida State College at Jacksonville,
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