

The Leader in Ultrasound CME

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INSTITUTE[®]

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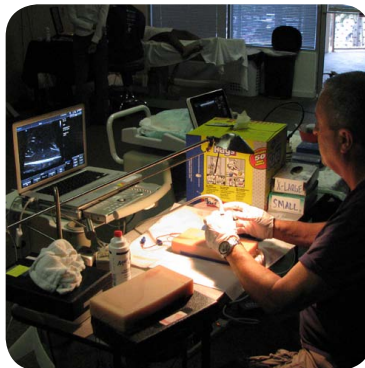
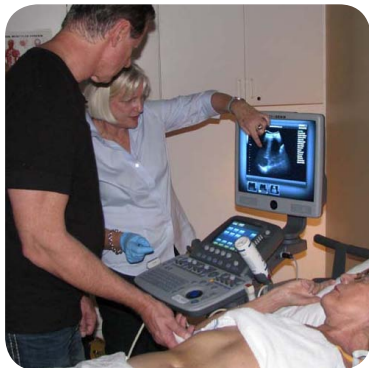
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Ultrasound CME

Designed for:

**Individuals, Educators,
Groups & Hospitals**

- ✓ *Live Courses*
- ✓ *On-Site Education*
- ✓ *Online*
- ✓ *Self-Study*
- ✓ *Registry Prep*



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The IAC Experience

"The Standards are the recipe that tells me what I need to do to operate our lab correctly. I utilize the Standards as my first point of reference to tell me what I need to do to operate a quality echo lab. When I do encounter questions, I know I can depend on the IAC staff to guide me in interpreting the Standards, to best meet the needs of our facility and most importantly, our patients."

- Doug Wuebben, BA, AS, RDCS

Technical Director

Avera Sacred Heart Hospital Pediatric and Adult
Echocardiography Laboratory, Yankton, SD

ACCREDITED BY IAC IN ECHOCARDIOGRAPHY

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about the IAC experience at
intersocietal.org/experience.



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SPI (Physics) Registry Review Package; OB-GYN Ultrasound Registry Review Package;
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- **SCAN WITH CONFIDENCE** during practice exams and live exams
- **PREPARE FOR CME** mskNAV is consistent with AIUM, ESSR, ARDMS guidelines
- **EDUCATE YOUR PATIENT** with 3D “peel away” anatomy

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For Group Course Pricing for 5 or more,
go to www.gcus.com/online-courses for details.

Online Courses

(See Page 19 for Pricing & Details)

- Abdominal Ultrasound Registry Review
- Introduction to Abdominal Doppler Ultrasound
- Introduction to Adult Echocardiography
- Introduction to Critical Care Ultrasound
- Introduction to Emergency Ultrasound
- Introduction to Gynecological Ultrasound
- Introduction to MSK Ultrasound: Lower Extremities
- Introduction to MSK Ultrasound: Upper & Lower Extremities
- Introduction to MSK Ultrasound: Upper Extremities
- Introduction to OB/GYN Ultrasound
- Introduction to Obstetrical Ultrasound
- Introduction to Pediatric Emergency Ultrasound
- Introduction to Pediatric Ultrasound
- Introduction to Peripheral Vascular Ultrasound
- Introduction to Thyroid Sonography
- Introduction to Transcranial Doppler Ultrasound
- Introduction to Ultrasound-Guided Vascular Access
- OB/GYN Ultrasound Registry Review
- Pediatric Ultrasound Registry Review
- Sonography Principles & Instrumentation Registry Review
- Ultrasound Evaluation of the Fetal Heart
- Ultrasound in Trauma
- Vascular Case Studies
- Vascular Technology Registry Review

Hands-On Workshops

2015 HANDS-ON ONLY TUITION

ADVANCED REGISTRATION RATES: Afternoon Sessions (Attend Hands-On Portion of GCUS Regularly Scheduled Courses)

	Adv. Reg.	Reg. Reg.
• Carotid	\$875	\$975
• Peripheral Vascular	\$725	\$825
• Transcranial Doppler	\$725	\$825
• Pediatric Emergency & Critical Care	\$750	\$850
• Adult Echocardiography	\$1,275	\$1,375
• Abdominal/Primary Care	\$875	\$975
• OB-GYN	\$899	\$999
• Vascular Access	\$425	\$525

LATE REGISTRATION

(Within 1 week of course): Add \$100

ONE-ON-ONE HANDS-ON SCANNING (Private, customized and not during a regularly scheduled program):

Sonographer Instructor: \$2,000/day (\$250/hour) | Physician Instructor: \$3,000/day (\$375/hour)

Minimum of 4 hours required

PREREQUISITES FOR ATTENDING:

1. Must have attended a previous GCUS course (Live or Online) - **OR** -
2. Proof of attending another similar course – submit certificate for review by program manager or program coordinator to approve - **OR** -
3. Individual registered in the modality of the course they want to attend (requires approval by program manager or coordinator)

REGULARLY SCHEDULED SCAN-ONLY HANDS-ON WORKSHOP:

1-day: \$1,095 | 2-day: \$1,690

\$45 Off Scan-Only Workshop when it is combined with an Online Course:

1-day: \$1,050 | 2-day: \$1,645

REGULARLY SCHEDULED SCAN-ONLY HANDS-ON WORKSHOP:

Gulfcoast Ultrasound can also provide Onsite Education in a Blended format. Complete didactics online with one of our online courses. Then GCUS will come to your facility to provide hands-on instruction. (See Page 19 for more information)

www.gcus.com/online-courses & www.gcus.com/onsite | Call us at 727.363.4500 or Toll Free 800.619-1900

All courses offer AMA PRA Category 1 Credits™

Select courses also offer: **A** = ACEP CMEs

C = AANA Credit

R = ASRT CMEs

2015 Courses/Dates - St. Pete Beach, Florida

Advanced
Registration

Regular
Registration

NO Hidden Costs! Registration Fee Includes ALL Course Materials!

REGISTRY REVIEW

Registered Physician in Vascular Interpretation Ultrasound Registry Review > September 28-30, 2015	Live Webinar >	\$1,250 \$1,116	\$1,350 \$1,116
Musculoskeletal Ultrasound Registry Review > October 8-9, 2015	Live Webinar >	\$1,295 \$995	\$1,395 \$995

MUSCULOSKELETAL ULTRASOUND

Intro to Musculoskeletal Ultrasound > August 10-12, 2015	w/Optional Intro Interventional Cadaver Workshop >	\$2,275 \$3,695	\$2,375 \$3,795
Advanced Interventional MSK Ultrasound with Cadaver Workshop > August 13-14, 2015		\$2,475	\$2,575
Intro and Advanced Musculoskeletal Ultrasound > August 10-14, 2015	w/Additional Intro Interventional Cadaver Workshop >	\$4,550 \$5,550	\$4,650 \$5,650

POINT-OF-CARE ULTRASOUND

A *Ultrasound Guided Vascular Access > August 24, 2015	w/Scan-Only Workshop: 1 Day/2 Day > Live Webinar >	\$875 \$1,860/\$2,396 \$425	\$975 \$1,960/\$2,496 \$425
A Intro to Emergency Medical Ultrasound > Sept. 14-16, 2015	SAVE! Combine Advanced >	\$2,075 \$3,599	\$2,175 \$3,699
A Intro to Critical Care Ultrasound > Sept. 15-16, 2015	SAVE! Combine Advanced >	\$1,595 \$3,125	\$1,695 \$3,225
A Advanced Emergency Medical and Critical Care Ultrasound > Sept. 17-18, 2015		\$1,575	\$1,675

CARDIOVASCULAR ULTRASOUND

R *Intro to Carotid Duplex/Color Flow Imaging > June 8-10, 2015 Oct. 12-14, 2015		\$1,875	\$1,975
R *Intro to Peripheral Vascular Duplex/Color Flow Imaging > June 11-12, 2015 Oct. 15-16, 2015	SAVE! Combine Carotid >	\$1,525 \$3,355	\$1,625 \$3,455
*Intro to Transcranial Doppler Duplex/Color Flow Imaging > June 11-12, 2015	SAVE! Combine Carotid >	\$1,525 \$3,355	\$1,625 \$3,455
A *Intro to Adult Echocardiography > July 27-31, 2015 Dec. 7-11, 2015		\$2,595	\$2,695

GENERAL ULTRASOUND

A *Intro to Abdominal & Primary Care Ultrasound > Nov. 9-11, 2015		\$1,875	\$1,975
A *Intro to OB/GYN Ultrasound > Nov. 12-14, 2015	SAVE! Combine Abdominal >	\$1,925 \$3,755	\$2,025 \$3,855

SCAN-ONLY WORKSHOP - Hands-On Only Workshop!

Scanning Skills Workshops August 25-26, 2015	1 Day > 2 Day >	\$1,095 \$1,690	\$1,195 \$1,790
*Scan-Only Workshops during regularly scheduled GCUS Courses See * symbol above for those courses offering Scan-Only Workshops		(See Page 3 for Scan-Only Pricing)	



Just need hands-on skills training? ✓

A Hands-On Scanning Skills Workshop is available during almost every course. Call us for details. (Prerequisites must be met.)



All courses offer AMA PRA Category 1 Credits™

Select courses also offer: **A** = ACEP CMEs

C = AANA Credit

R = ASRT CMEs

2016 Courses/Dates - St. Pete Beach, Florida

Advanced
Registration

Regular
Registration

NO Hidden Costs! Registration Fee Includes ALL Course Materials!

MUSCULOSKELETAL ULTRASOUND

Intro to Musculoskeletal Ultrasound ▷ Jan. 25-27, 2016 August 15-17, 2016	w/Optional Intro Interventional Cadaver Workshop ▷	\$2,275 \$3,695	\$2,375 \$3,795
Advanced Interventional MSK Ultrasound with Cadaver Workshop ▷ Jan. 28-29, 2016 August 18-19, 2016		\$2,475	\$2,575
Intro and Advanced Musculoskeletal Ultrasound ▷ Jan. 25-29, 2016 August 15-19, 2016	w/Additional Intro Interventional Cadaver Workshop ▷	\$4,550 \$5,550	\$4,650 \$5,650

POINT-OF-CARE ULTRASOUND

A Intro to Emergency Medical Ultrasound ▷ April 18-20, 2016 Sept. 12-14, 2016	SAVE! Combine Advanced ▷	\$2,075 \$3,599	\$2,175 \$3,699
A Intro to Critical Care Ultrasound ▷ April 19-20, 2016 Sept. 13-14, 2016	SAVE! Combine Advanced ▷	\$1,595 \$3,125	\$1,695 \$3,225
A Advanced Emergency Medical and Critical Care Ultrasound ▷ April 21-22, 2016 Sept. 15-16, 2016		\$1,575	\$1,675
A Ultrasound Guided Vascular Access ▷ Feb. 8, 2016 August 29, 2016	Live Webinar ▷	\$850 \$400	\$950 \$400
A Ultrasound Guided Nerve Blocks in Trauma ▷ Feb. 9, 2016	Live Webinar ▷	\$875 \$425	\$975 \$425
A Pediatric Emergency Med. & Critical Care Ultrasound ▷ June 23-24, 2016		\$1,540	\$1,640
Focused Point of Care Echocardiography ▷ June 18-20, 2016 December 5-7, 2016		\$2,595	\$2,695
A Ultrasound-Guided Regional Anesthesia ▷ Feb. 9, 2016 August 30, 2016		\$875	\$975

SCAN-ONLY WORKSHOP - Hands-On Only Workshop!

General & ER/CC Ultrasound Scanning Skills Workshop ▷ Feb. 10, 2016 July 30, 2016 Sept. 24, 2016	\$1,095	\$1,195
Vascular & Echocardiography Scanning Skills Workshop (Puerto Rico) ▷ May 21-22, 2016	TBD	TBD
General Scanning Skills Workshop (Abdominal, OB, GYN, Small Parts, Trauma, Emergency, Critical Care) 1 Day ▷ July 30-31, 2016	\$1,095 \$1,690	\$1,195 \$1,790
Vascular & Echocardiography Scanning Skills Workshop ▷ Sept. 24, 2016	\$1,095	\$1,195
MSK Scanning Skills Workshop ▷ Oct. 15, 2016	\$1,800	\$1,900

REGISTRY REVIEW

Pediatric Registry Review (1 Day / 2 Day) ▷ February 12-13, 2016	\$350/\$450	\$450/\$550
Registered Physician in Vascular Interpretation Ultrasound Registry Review ▷ April 7-8, 2016 September 22-23, 2016	Live Webinar ▷ \$975 \$875	\$1,075 \$875
OB/GYN Registry Review (1 Day / 2 Day) ▷ July 30-31, 2016	\$350/\$450	\$450/\$550
Musculoskeletal Ultrasound Registry Review ▷ October 13-14, 2016	Live Webinar ▷ \$995 \$895	\$1,095 \$895

CARDIOVASCULAR ULTRASOUND

R Intro to Carotid Duplex/Color Flow Imaging ▷ May 2-4, 2016 October 24-26, 2016	\$1,875	\$1,975
R Intro to Peripheral Vascular Duplex/Color Flow Imaging ▷ May 5-6, 2016 October 27-28, 2016	SAVE! Combine Carotid ▷ \$1,525 \$3,355	\$1,625 \$3,435
Intro to Transcranial Doppler Duplex/Color Flow Imaging ▷ May 5-6, 2016	SAVE! Combine Carotid ▷ \$1,495 \$3,325	\$1,595 \$3,425
A Intro to Adult Echocardiography ▷ July 18-22, 2016 December 5-9, 2016	\$2,595	\$2,695

GENERAL ULTRASOUND

A Intro to Abdominal & Primary Care Ultrasound ▷ June 6-8, 2016 November 7-9, 2016	\$1,875	\$1,975
A Intro to OB/GYN Ultrasound ▷ June 9-11, 2016 November 10-12, 2016	SAVE! Combine Abdominal ▷ \$1,925 \$3,755	\$2,025 \$3,855
Sonography of the Breast ▷ July 27, 2016	TBD	TBD
Fetal Heart Screening Ultrasound ▷ July 28, 2016	TBD	TBD
Advanced OB/GYN Ultrasound ▷ July 29, 2016	TBD	TBD
Women's Health Ultrasound ▷ July 27-29, 2016	TBD	TBD

ONSITE COURSE - PUERTO RICO

Vascular Interpretation, Echocardiography, Scan Workshop ▷ May 19-22, 2016	TBD	TBD
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Registered Physician in Vascular Interp. (RPVI) Ultrasound Registry Review & Vascular Case Studies

RPVI-152 | RPVI-161



Available Date(s): **September 28-30, 2015**

Sept. 22-23, 2016 (Advanced Reg: \$975 / Regular Reg: \$1075)

24 AMA PRA Category 1 Credit(s)[™]

Also meets CME requirements for ARDMS

Advanced Registration: \$1,250.00

Regular Registration: \$1,350.00

Live
Webinar:
\$1,116

The Advanced Registration Price is honored if payment is made/post-marked 21 days or more prior to the beginning date of the program.

A \$100.00 Late Fee (\$100 over the posted Regular Registration Price) will apply if registering less than or equal to 7 Days before the course.

All attendees receive 5 additional days of the online registry review to ensure retention and comprehension of the material covered. Only offered by Gulfcoast Ultrasound Institute!

Objectives:

1. Increase the participants' 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 and 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.
11. Review over 110 cases.

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SILVER & GOLD Packages
800-619-1900**

Musculoskeletal Ultrasound Registry Review Course

RRM-152 | RRM-161



Available Date(s): **October 8-9, 2015**

Oct. 13-14, 2016 (Advanced Reg: \$995 / Regular Reg: \$1,095)

16 AMA PRA Category 1 Credit(s)[™]

Also meets CME requirements for ARDMS

Advanced Registration: \$1,295.00

Regular Registration: \$1,395.00

Live
Webinar:
\$895

The Advanced Registration Price is honored if payment is made/post-marked 21 days or more prior to the beginning date of the program.

A \$100.00 Late Fee (\$100 over the posted Regular Registration Price) will apply if registering less than or equal to 7 Days before the course.

All attendees receive 5 additional days of the online registry review to ensure retention and comprehension of the material covered. Only offered by Gulfcoast Ultrasound Institute!

Objectives:

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

**COMBINE WITH
Hands-On, Scan-Only
Workshop
AND \$AVE!**



Introduction to Musculoskeletal Ultrasound

M-161 | M-162



Available Date(s): **Jan. 25-27, 2016**
Aug. 15-17, 2016 (Adv. Reg: \$2,275 / Reg. Reg: \$2,375)

This course offers an Optional Intro Human Cadaver Lab for ultrasound guided injection and aspiration techniques.

20 AMA PRA Category 1 Credit(s)[™]
 Also meets CME requirements for ARDMS

Advanced Registration: \$2,275.00
 Regular Registration: \$2,375.00
 Tuition with Optional Cadaver Lab: \$3,695.00

The Advanced Registration Price is honored if payment is made/postmarked 21 days or more prior to the beginning date of the program.

A \$100.00 Late Fee (\$100 over the posted Regular Registration Price) will apply if registering less than or equal to 7 Days before the course.

COMBINE WITH
Advanced & Interventional
Musculoskeletal Ultrasound
AND SAVE!

Objectives:

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

Topics:

- System optimization / Imaging fundamentals
- Shoulder, Elbow, Hand, and Wrist
- Hip, Knee, Ankle, and Foot
- Normal and abnormal ultrasound characteristics
- Injection and aspiration techniques
- Live model scanning daily

Course Instructors:

Jon Jacobson, MD, RMSK
 Shane Shapiro, MD, RMSK
 Timothy J. Mazzola, MD, CAQSM, RMSK
 Paul Lento, MD
 Randy Moore, DC, RDMS, RMSK



Fantastic course. Exceeded my expectations. Great job on mixing lectures, cases, live demonstrations and hands-on.

— John Martinez, MD

Would you prefer One-On-One Scanning Sessions? Get the education you need, with individual attention, coordinated to fit your schedule!

Unable to attend one of our regularly scheduled courses? Gulfcoast Ultrasound Institute can customize a private hands-on scanning session specific to your educational needs. Private Hands-On Scanning Sessions are interactive hands-on scanning labs in which you can practice scanning skills on live models and phantom simulators at our facility in St. Pete Beach, FL while receiving one-on-one attention from a registered instructor. These courses allow you to focus specifically on the skills and training applicable to your practice.

These courses do not include didactic lectures and are designed for participants who are registered in the particular specialty and are currently practicing in that particular modality; or have taken a prior Gulfcoast Ultrasound Institute course specifically on that modality. If you are not registered or have never attended a course previously you are required to attend the Comprehensive Course OR complete the corresponding online course before attending the Private Hands-On Scanning Session. Please call if you are unsure of your eligibility.

Private Hands-On Scanning Sessions must be scheduled for a minimum of 4 hours and are subject to instructor availability. Price starts at \$250/hour for sonographer instructor and \$350/hour for physician instructor (pricing will vary depending on topic).



Advanced & Interventional MSK Ultrasound

MA-161 | MA-162



Available Date(s): **Jan. 28-29, 2016**
Aug. 18-19, 2016 (Adv. Reg: \$2,475 / Reg. Reg: \$2,575)

Tuition includes Advanced Interventional Human Cadaver Lab covering topics such as: PRP, Stem Cell, Tenotomy, and more.

16 AMA PRA Category 1 Credit(s)[™]
 Also meets CME requirements for ARDMS

Advanced Registration: \$2,475.00
 Regular Registration: \$2,575.00

The Advanced Registration Price is honored if payment is made/post-marked 21 days or more prior to the beginning date of the program.

A \$100.00 Late Fee (\$100 over the posted Regular Registration Price) will apply if registering less than or equal to 7 Days before the course.

COMBINE WITH
 Introduction to
 Musculoskeletal Ultrasound
AND SAVE!

Objectives:

1. Increase participant's knowledge to better perform and / or interpret MSK ultrasound exams.
2. List the use of MSK sonography for diagnosis and ultrasound - guided interventions for rheumatology, sports medicine, and physical medicine & rehabilitation applications
3. Demonstrate techniques and protocols for performing shoulder, elbow, wrist/hand, ankle/foot, adult hip and spine.
4. Identify sonographic appearance of commonly seen pathology of the shoulder, elbow, wrist, hand, ankle, foot, adult hip and spine.
5. Interpret complex musculoskeletal ultrasound images and list treatment options and patient management strategies.
6. Outline new ultrasound guided procedures for ligament and tendon injuries.
7. List the role of ultrasound in the evaluation of the post-operative shoulder.
8. State the role of ultrasound in nerve entrapment syndromes.
9. Demonstrate the principals of injection techniques for the performance of upper and lower extremity MSK interventions on cadaver models.
10. Increase confidence to incorporate protocols, scan techniques, and interpretation criteria to improve diagnostic/treatment accuracy.

Topics:

- Advanced evaluation of upper / lower extremities (including Spine)
- Advanced ultrasound guided injection techniques
- Rehabilitative Medicine: PRP, Stem Cell, Tenotomy, and more
- Advanced Peripheral Nerve Applications
- Post-Operative evaluation and Complex Pathology
- Includes live model scanning & advanced human cadaver lab

This is an excellent, very well organized course in a perfect setting.

-- Maria Vilano, MD

Course Instructors:

Victor Ibrahim, MD, FAAPMR (Course Director)
 Jeffrey Strakowski, MD
 Randy Moore, DC, RDMS, RMSK
 Shane Shapiro, MD, RMSK
 Timothy J. Mazzola, MD, CAQSM, RMSK



Need an MSK Mock Exam FAST?

GCUS now offers an online Ultra P.A.S.S. Musculoskeletal Ultrasound Interactive Exam! Purchase online and receive instant access. The questions posed in each of the P.A.S.S. interactive exams are based on current registry examination content outlines and are presented in a similar format. (See Page 20)



Ultrasound-Guided Vascular Access

UGVA-161 | UGVA-162



Available Date(s): **Feb. 8, 2016**
Aug. 29, 2016 (Adv. Reg: \$850 / Reg. Reg: \$950)

8 AMA PRA Category 1 Credit(s)[™]
 7 hours of ACEP Category I Credits
 7 AANA CE Credit(s)
 Also meets CME requirements for ARDMS

Advanced Registration: \$850.00
 Regular Registration: \$950.00



The Advanced Registration Price is honored if payment is made/post-marked 21 days or more prior to the beginning date of the program.

A \$100.00 Late Fee (\$100 over the posted Regular Registration Price) will apply if registering less than or equal to 7 Days before the course.

Objectives:

1. Demonstrate the participant's knowledge to better perform ultrasound-guided vascular access procedures
2. Demonstrate proper transducer manipulation and system optimization to produce diagnostic images.
3. List the advantages and disadvantages of the "In-Plane" and "Out-of-Plane" and the "Direct" vs. "Indirect" ultrasound-guided vascular access techniques.
4. Differentiate venous vs. arterial anatomy by ultrasound.
5. Identify ultrasound imaging characteristics of vessels and contiguous anatomy to determine the optimal approach for vascular access.
6. Describe ultrasound imaging characteristics of vascular pathology that would indicate a vessel is not suitable for vascular access.
7. Demonstrate the use of ultrasound guidance for Central Line vascular access.
8. Demonstrate the use of ultrasound guidance for Peripheral Line vascular access.
9. Demonstrate competence to incorporate protocols, scan techniques, and interpretation criteria to improve diagnostic/treatment accuracy.

Topics:

- Ultrasound imaging fundamentals
- "In-Plane" vs. "Out-of-Plane" techniques
- "Direct" vs. "Indirect" techniques
- U/S-guided central line placement
- Internal jugular and subclavian approach
- U/S-guided peripheral line placement
- Antecubital & Femoral vein access
- Clinical Cases and QA
- Hands-on sessions with live models and inanimate phantoms

Well organized and presented conference. The course elevated my ability to sufficiently and accurately develop my ultrasound interpreting diagnostic skills.

-- Robert Brumberg, DO

Course Instructors:

Charlotte Derr, MD, RDMS, FACEP
 Lori Green, BA, RT(R), RDMS, RDCS, RVT



Just need hands-on skills training? ✓

A Hands-On Scanning Skills Workshop is available during almost every course. Call us for details. (Prerequisites must be met.)

Get Featured on our Website and Newsletter!

Submit articles, case studies, videos of tips and tricks, and industry updates to learn@gcus.com.



Introduction to Emergency Medicine Ultrasound

ER-152 | ER-161 | ER-162

Available Date(s): **September 14-16, 2015****Apr. 18-20, 2016 | Sept. 12-14, 2016** (Adv. Reg: \$2,075 / Reg. Reg: \$2,175)24 AMA PRA Category 1 Credit(s)[™]

22.5 hours of ACEP Category I Credits

Also meets CME requirements for ARDMS

Advanced Registration: \$2,075.00

Regular Registration: \$2,175.00

The Advanced Registration Price is honored if payment is made/post-marked 21 days or more prior to the beginning date of the program.

A \$100.00 Late Fee (\$100 over the posted Regular Registration Price) will apply if registering less than or equal to 7 Days before the course.

COMBINE WITH

**Advanced Emergency Medicine
& Critical Care Ultrasound
AND \$AVE!**

Objectives:

1. Increase participant's knowledge to better perform and/or interpret 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 adult heart.
5. State an algorithm for uses of bedside ultrasound during cardiac arrest, shock & hypotension.
6. Demonstrate image orientation, transducer preparation, and scan protocols for performing use of ultrasound guidance for vascular access, pericardiocentesis, paracentesis, hemothorax, lumbar puncture, 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.

Topics:

- Essentials of Ultrasound Principles
- Focused Abdominal Scanning Fundamentals
- Renal and Biliary Colic
- Abdominal Aorta
- FAST Examination
- Basic Lung Imaging
- Focused Assessed Transthoracic Echo (F.A.T.E.)
- Ultrasound Evaluation of shock and hypotension
- Ultrasound guided vascular access
- Ultrasound guided Procedures
- Evaluation of DVT
- First Trimester Ultrasound evaluation
- Evaluation of ectopic Pregnancy
- GYN evaluation

Introduction to Critical Care Ultrasound

CCU-152

Available Date(s): **September 15-16, 2015****Apr. 19-20, 2016 | Sept. 13-14, 2016** (Adv. Reg: \$1,595 / Reg. Reg: \$1,695)16 AMA PRA Category 1 Credit(s)[™]

Also meets CME requirements for ARDMS

Advanced Registration: \$1,595.00

Regular Registration: \$1,695.00

The Advanced Registration Price is honored if payment is made/post-marked 21 days or more prior to the beginning date of the program.

A \$100.00 Late Fee (\$100 over the posted Regular Registration Price) will apply if registering less than or equal to 7 Days before the course.

COMBINE WITH

**Advanced Emergency Medicine
& Critical Care Ultrasound
AND \$AVE!**

Objectives:

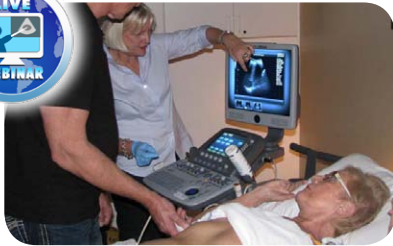
1. Increase participant's knowledge to better perform and/or interpret Critical care ultrasound examinations
2. State basic fundamentals of ultrasound physics & demonstrate appropriate optimization of system controls.
3. Perform ultrasound evaluation of the trauma patient (E-FAST exam).
4. Differentiate normal/abnormal image characteristics of the abdomen and adult heart.
5. State an algorithm for assessing causes of shock and hypotension using bedside ultrasound.
6. Demonstrate image orientation, transducer placement, and scan protocols for performing ultrasound evaluation of pneumothorax.
7. Demonstrate scan protocols for focused evaluation of the abdomen, aorta, and adult heart, and lower extremity DVT.
8. Demonstrate image orientation, transducer preparation, and scan protocols for performing ultrasound guided vascular access.
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.

Topics:

- Essentials of ultrasound principles
- Focused abdominal scan fundamentals
- Primary U/S Applications & Abdominal Case Studies
- The Focused Cardiac 2D Exam
- Echo and Shock
- Vascular access
- Training and credentialing
- Hands on sessions and system optimization
- Cardiac arrest, effusion, shock and case studies
- Ultrasound-guided procedures: thoracentesis, pericardiocentesis, paracentesis, ET placement
- FAST exam and pneumothorax
- Pericardial Effusion & Tamponade
- MI & complication
- Lung ultrasound

**Adv. Emergency Medicine Ultrasound & Critical Care Ultrasound**

ERCA-152 | ERCA-161 | ERCA-162

Available Date(s): **September 17-18, 2015****Apr. 21-22, 2016 | Sept. 15-16, 2016** (Adv. Reg: \$1,575 / Reg. Reg: \$1,675)16 AMA PRA Category 1 Credit(s)[™]

15.25 hours of ACEP Category I Credits

Also meets CME requirements for ARDMS

Advanced Registration: \$1,575.00

Regular Registration: \$1,675.00

The Advanced Registration Price is honored if payment is made/post-marked 21 days or more prior to the beginning date of the program.

A \$100.00 Late Fee (\$100 over the posted Regular Registration Price) will apply if registering less than or equal to 7 Days before the course.

COMBINE WITH

**Introduction to Emergency
Medicine Ultrasound
AND \$AVE!**

COMBINE WITH

**Introduction to Critical
Care Ultrasound
AND \$AVE!**

Objectives:

1. Increase the participant's knowledge to better perform and/or interpret Emergency Medicine & Critical Care Ultrasound examinations.
2. Identify sonographic characteristics associated with abdominal sepsis involving the hepato biliary, 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 and bony cortices in the emergency department. (Optional EM Track)
5. Demonstrate the use of ultrasound guidance for peripheral vascular access.
6. State principles of spectral and cardiac Doppler fundamentals and apply quantitative methods to evaluate acute valvular abnormalities (Optional 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. (Optional EM Track)
8. Evaluate fluid responsiveness in the critically ill patient.
9. Perform testicular ultrasound and recognize acute abnormalities. (Optional EM Track)
10. Increase confidence to incorporate protocols, scan techniques, and interpretation criteria to improve diagnostic/treatment accuracy.

Topics:

- Sonography in Shock & Source of Sepsis
- Color Doppler Fundamentals
- Echo assessment of cardiomyopathies
- Cardiac ultrasound evaluation of heart failure
- MI & complications
- Fluid responsiveness in the critically ill
- Advanced Lung imaging
- Vocal cords

Course Instructors (This list also includes Instructors for Intro Courses on Page 10):

Alexander Levitov MD, FACP, FACCM, RDCS

James Mateer, MD, RDMS, FACEP

Charlotte Derr, MD, RDMS, FACEP

Rob Reardon, MD, FACEP, FAAEM

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

Daniel Bourque, MS, RCS, FASE



**ALSO
Intro to
ER/CCU**



**ALSO
Intro to
ER/CCU**



**Intro to
ER/CCU
ONLY**



**Intro to
ER/CCU
ONLY**

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Pediatric Emergency & Critical Care Ultrasound

PECC-161



Available Date(s): **June 23-24, 2016**

16 *AMA PRA Category 1 Credit(s)*[™]

14.25 hours of ACEP Category I Credits

Also meets CME requirements for ARDMS

Advanced Registration: \$1,540.00

Regular Registration: \$1,640.00

The Advanced Registration Price is honored if payment is made/post-marked 21 days or more prior to the beginning date of the program.

A \$100.00 Late Fee (\$100 over the posted Regular Registration Price) will apply if registering less than or equal to 7 Days before the course.

**COMBINE WITH
Hands-On, Scan-Only
Workshops
AND SAVE!**

Objectives:

1. Increase the participant's knowledge to better perform and/or interpret pediatric emergency and critical care ultrasound examinations.
2. State the basic fundamentals of ultrasound physics and demonstrate appropriate optimization of system controls.
3. Identify normal imaging characteristics of the pediatric urinary tract and recognize commonly seen pathology associated with renal disease and the GI tract in infants and children.
4. Demonstrate protocols for evaluation of the trauma patient (FAST).
5. Demonstrate ultrasound protocols for evaluation of pneumothorax, pneumonia and endotracheal tube placement.
6. List the benefits of Ultrasound-Guided Procedures such as vascular access and lumbar puncture.
7. Perform a focused cardiac ultrasound examination on a pediatric patient.
8. List the benefits of soft-tissue and MSK ultrasound in the pediatric patient.
9. Demonstrate a focused two-point venous evaluation for DVT.
10. Perform testicular ultrasound and recognize commonly seen abnormalities (optional session).
11. Increase confidence to incorporate protocols, techniques & interpretation criteria to improve diagnostic/treatment accuracy.

Topics:

- Imaging Fundamentals
- FAST + e-fast
- Lung Imaging
- Ultrasound-Guided vascular access
- Ultrasound-Guided procedures including lumbar puncture
- Pediatric GI Applications: Pyloric Stenosis, Intussusception, Appendix & Bowel obstruction
- Ultrasound Guided procedures including Vascular access & Lumbar puncture
- Focused Cardiac Assessment of the Pediatric Patient
- Urinary Tract Infection and Renal disease in infants & children
- Soft tissue applications
- Evaluation of DVT
- Rapid fracture diagnosis/post-reduction bony alignment etc.
- Interactive Case Studies
- Testicular ultrasound
- Extensive hands-on scanning (3:1 participant-to-instructor ratio)

Course Instructors:

TBA



Just need hands-on skills training? ✓

A Hands-On Scanning Skills Workshop is available during almost every course. Call us for details. *(Prerequisites must be met.)*

Now offering 0% Financing!

Get 0% financing on course and product purchases for 6 months! Use the PayPal "bill me later" option at checkout.

FYI



Introduction to Carotid Duplex/Color Flow Imaging

C-153 | C-161 | C-162

Available Date(s): **October 12-14, 2015****May 2-4, 2016 | Oct. 24-26, 2016** (Adv. Reg: \$1,875 / Reg. Reg: \$1,975)24 AMA PRA Category 1 Credit(s)[™]

22 Category A ASRT credit(s)

Also meets CME requirements for ARDMS

Advanced Registration: \$1,875.00

Regular Registration: \$1,975.00

The Advanced Registration Price is honored if payment is made/post-marked 21 days or more prior to the beginning date of the program.

A \$100.00 Late Fee (\$100 over the posted Regular Registration Price) will apply if registering less than or equal to 7 Days before the course.

Objectives:

1. Increase the participants' 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 examination.
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, & 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 measurement.
7. Characterize plaque morphology and 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.

Course Instructors:

William B. Schroedter, BS, RVT, FSVU
 Phillip J Bendick, PhD, RVT, FSDMS, FSVU
 Brian Schenker, MBA, RDMS, RVT
 Lori Green, BA, RT(R), RDMS, RDCS, RVT

**COMBINE WITH**

Intro to Peripheral Vascular
 Duplex/Color Flow Imaging
AND SAVE!

COMBINE WITH

Introduction to Transcranial
 Doppler Ultrasound
AND SAVE!

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A Hands-On Scanning Skills Workshop is available during almost every course. Call us for details. (Prerequisites must be met.)

Over 206 Ultrasound Training Products any way you want it!

Gulfcoast Ultrasound Institute also offers ultrasound training via online classes and online videos available through multiple devices, such as Mac OS, Windows PC, Smartphones (Android and iOS), and Tablets (Android, and iPad).

Gulfcoast Ultrasound Institute uses the latest technology and innovative teaching methods to ensure the participant receives the maximum educational benefit. As a result, both seminars and educational products have received a 99.8% satisfaction rating for meeting or exceeding over-all educational objectives based on post-course evaluations.

Gulfcoast Ultrasound Institute also receives consistent high ratings for the quality and amount of hands-on instruction...a key component to effective learning.



Introduction to Peripheral Vascular Duplex/Color Flow Imaging

P-153 | P-161 | P-162



Available Date(s): **Oct. 15-16, 2015**

May 5-6, 2016 | Oct. 27-28, 2016 (Adv. Reg: \$1,525 / Reg. Reg: \$1,625)

16 AMA PRA Category 1 Credit(s)[™]

14.5 Category A ASRT credit(s)

Also meets CME requirements for ARDMS

Advanced Registration: \$1,525.00

Regular Registration: \$1,625.00

The Advanced Registration Price is honored if payment is made/post-marked 21 days or more prior to the beginning date of the program.

A \$100.00 Late Fee (\$100 over the posted Regular Registration Price) will apply if registering less than or equal to 7 Days before the course.

Objectives:

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 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 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 and 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 Instructors:

Phillip J Bendick, PhD, RVT, FSDMS, FSVU
Rob Daigle, BA, RVT, FSVU, FSDMS



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A Hands-On Scanning Skills Workshop is available during almost every course. Call us for details. (Prerequisites must be met.)

COMBINE WITH

Introduction to Carotid
Duplex/Color Flow Imaging
AND SAVE!

Introduction to Transcranial Doppler Ultrasound

TCD-161



Available Date(s): **May 5-6, 2016**

16 AMA PRA Category 1 Credit(s)[™]

Also meets CME requirements for ARDMS

Advanced Registration: \$1,495.00

Regular Registration: \$1,595.00

The Advanced Registration Price is honored if payment is made/post-marked 21 days or more prior to the beginning date of the program.

A \$100.00 Late Fee (\$100 over the posted Regular Registration Price) will apply if registering less than or equal to 7 Days before the course.

Objectives:

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 limitations of TCD/TCI examinations
6. Increase knowledge and confidence to integrate the skills learned in a clinical setting.

Topics:

- Transcranial Doppler History and Physics
- Neuroanatomy
- TCD Examination Techniques
- TCD Hands-on Demonstration
- Clinical Applications I: (Subarachnoid Hemorrhage, AVM, Cerebrovascular Reactivity)
- Clinical Applications II: (Trauma, Brain Death, Emboli)
- Clinical Applications III: (Cerebrovascular Disease, Intracranial Stenosis, Intracranial Occlusions)
- Clinical Applications IV: (Sickle Cell Disease, PFO)
- Case Studies
- Hands-On Workshop

Course Instructor:

TBD



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A Hands-On Scanning Skills Workshop is available during almost every course. Call us for details. (Prerequisites must be met.)

COMBINE WITH

Introduction to Carotid
Duplex/Color Flow Imaging
AND SAVE!



Introduction to Adult Echocardiography

ECD-153 | ECD-161 | ECD-162

Available Date(s): **Dec. 7-11, 2015****July 18-22, 2016 | Dec. 5-9, 2016** (Adv. Reg: \$2,595 / Reg. Reg: \$2,695)40 AMA PRA Category 1 Credit(s)[™]

37.25 hours of ACEP Category I Credits

34.5 Category A ASRT credit(s)

Also meets CME requirements for ARDMS

Advanced Registration: \$2,595.00

Regular Registration: \$2,695.00

The Advanced Registration Price is honored if payment is made/post-marked 21 days or more prior to the beginning date of the program.

A \$100.00 Late Fee (\$100 over the posted Regular Registration Price) will apply if registering less than or equal to 7 Days before the course.

Objectives:

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 & Doppler echocardiographic techniques and demonstrate appropriate measurements.
4. Identify normal/abnormal characteristics of 2D cardiac anatomy and state the role of cardiac Doppler and list the necessary qualitative/quantitative measurements.
5. Identify the ultrasound findings associated with valvular heart disease, cardiomyopathies, ischemic heart disease, pericardial disease and cardiac masses.
6. List the latest imaging techniques in quantification of right and left ventricle wall motion. Document findings and apply standardized guidelines during compilation of an Echocardiography worksheet (sonographer) and dictated report (Physician).
7. List the steps necessary for system optimization during contrast echo imaging.
8. Increase confidence to incorporate protocols, techniques & interpretation criteria to improve diagnostic/treatment accuracy.

Topics:

- Imaging fundamentals
- Heart anatomy/electrocardiography
- 2D/M Mode characterization of cardiac anatomy
- M-Mode and 2D measurements
- Fundamentals of Doppler (Pulsed, CW and CFI)
- Comprehensive 2D and Doppler echocardiogram
- Mitral valve/Aortic valve disease
- Cardiomyopathies
- Doppler evaluation of MVD & AVD
- Right heart disease
- Live demo: Comprehensive echocardiography examination
- Interpretation workshop
- Coronary heart disease
- Diastolic function/contrast
- Pericardial disease/Cardiac masses
- Hands-on sessions

Wonderful course - all speakers were extremely informative. One of the best organized and well prepared programs I have ever attended. Very helpful to beginner.

-- Robin Arceneaux, RCS

Course Instructors:

Christie Hill Jordan, BS, RDCS, RCS, RCIS, FASE
 Daniel Bourque, MS, RCS, FASE
 Richie Palma, BS, RDCS, RCS, APS, FASE
 Lori Green, BA, RT(R), RDMS, RDCS, RVT
 Diane Debich-Spicer, PA (ASCP)



Just need hands-on skills training? ✓

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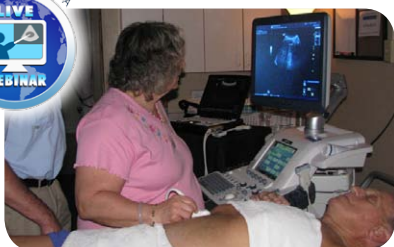
Military Tuition Assistance is available!

GCUS is now approved for Military Tuition Assistance through GoArmyEd. School Code GU002, CAGE: 077Y9, OPEID: 77111299. (See Page 36)



Introduction to Abdominal and Primary Care Ultrasound

A-152 | A-161 | A-162

Available Date(s): **November 9-11, 2015****June 6-8, 2016 | Nov. 7-9, 2016** (Adv. Reg: \$1,875 / Reg. Reg: \$1,975)24 AMA PRA Category 1 Credit(s)[™]

21.5 hours of ACEP Category I Credits

20.75 Category A ASRT credit(s)

Also meets CME requirements for ARDMS

Advanced Registration: \$1,875.00

Regular Registration: \$1,975.00

The Advanced Registration Price is honored if payment is made/post-marked 21 days or more prior to the beginning date of the program.

A \$100.00 Late Fee (\$100 over the posted Regular Registration Price) will apply if registering less than or equal to 7 Days before the course.

COMBINE WITH
Introduction to OB/GYN
Ultrasound Education
AND SAVE!

Objectives:

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 (FAST exam).
9. Demonstrate the use of ultrasound for evaluation of soft-tissue pathology.
10. Increase confidence to incorporate protocols, scan techniques & interpretation criteria to improve diagnostic/treatment accuracy.

Topics: (*Indicates optional session)

- Imaging fundamentals
- Abdominal anatomy/scan techniques
- Abdominal Aorta
- Abdominal Case Studies
- Liver, Gall Bladder & biliary tree sonography
- Spleen, pancreas, thyroid, renal & scrotal/testicular sonography
- US- Evaluation of the appendix & GI tract
- The FAST examination*
- Scan protocol, live demo
- Soft tissue application
- Doppler/Color Fundamentals*
- Evaluation of renal artery stenosis*
- Supervised Hands-on sessions featuring 3:1 participant to instructor ratio with live models for a realistic training experience

Great school — learned a lot and realized that if you know your anatomy scanning becomes more logical and deliberate instead of just searching.

-- Brittney Kramer RT(R)(M)

Course Instructors:

Lori Green, BA, RT, RDMS, RDCS, RVT
Salvatore LaRusso M.Ed. RDMS, RT(R)
Charlotte Derr, MD, RDMS, FACEP
Brian Schenker, MBA, RDMS, RVT



Can't Travel? GCUS offers Comprehensive Online Classrooms. (See page 19)

Each online course provides a strong foundation to perform the core ultrasound applications as outlined in the various ultrasound specialty practice guidelines. These courses are taught by leading ultrasound professionals in an interactive, modular format that will maximize the learning experience.



Introduction to OB/GYN Ultrasound Education

OE-152 | OE-161 | OE-162

Available Date(s): **November 12-14, 2015**

June 9-11, 2016 | Nov. 10-12, 2016 (Adv. Reg: \$1,925 / Reg. Reg: \$2,025)

20 AMA PRA Category 1 Credit(s)[™]

18.75 hours of ACEP Category I Credits

19.5 Category A ASRT credit(s)

Also meets CME requirements for ARDMS

Advanced Registration: \$1,925.00

Regular Registration: \$2,025.00

The Advanced Registration Price is honored if payment is made/post-marked 21 days or more prior to the beginning date of the program.

A \$100.00 Late Fee (\$100 over the posted Regular Registration Price) will apply if registering less than or equal to 7 Days before the course.

COMBINE WITH
Intro to Abdominal and
Primary Care Ultrasound
AND SAVE!

Objectives:

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, and 1st trimester obstetric applications.
4. State the normal and abnormal imaging characteristics of the ovaries and uterus and differentiate commonly seen pathology.
5. List the indications and ultrasound findings for suspicion of an ectopic pregnancy.
6. Identify normal fetal anatomy and perform biophysical profile.
7. Apply appropriate measurement techniques to assess fetal dates and appropriate fetal development.
8. Recognize commonly seen fetal abnormalities and their corresponding ultrasound imaging characteristics.

Topics:

- Imaging Fundamentals
- GYN Anatomy
- Scan Protocol (TAS and TVS)
- GYN Pathology/Case Studies
- Fetal Survey, Biometry and Biophysical profile
- Fetal heart screening
- Placenta & Multiple Gestation
- Fetal Abnormalities
- Case Studies Review
- Hands-On Scanning

I enjoyed using the transponders to test my knowledge. I also liked the tests in the OB/Gyn book to test the info we had learned in that section. Great program.

-- Christal Sene, RT(R)(M)

Course Instructors:

Jane J.K. Burns, AS, RT, RDMS
Salvatore LaRusso M.Ed. RDMS, RT(R)
Ahmed M. Al-Malt, MD
Lori Green, BA, RT, RDMS, RDCS, RVT



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Looking for Online Videos?

Our online videos offer individuals the ability to create a custom online library of specialty-specific topics! (Both lifetime and 30 day pricing is available.)



One-Day - All Specialties - Scanning Skills Workshop

SO1-161 | SO1-162 | SO1-163



Available Date(s): **Feb. 10, 2016**

July 30, 2016 | Sept 24, 2016 (Adv. Reg: \$1,095 / Reg. Reg: \$1,195)

8 AMA PRA Category 1 Credit(s)[™]

Also meets CME requirements for ARDMS

Advanced Registration: \$1,095.00

Regular Registration: \$1,195.00

The Advanced Registration Price is honored if payment is made/post-marked 21 days or more prior to the beginning date of the program.

A \$100.00 Late Fee (\$100 over the posted Regular Registration Price) will apply if registering less than or equal to 7 Days before the course.

Objectives:

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 examinations under supervised conditions to help fulfill credentialing and/or individual certification requirements

Choose your Specialty (Intermediate and Advanced specialties):

- Musculoskeletal: Shoulder, Elbow, Wrist and Hand, Knee, Ankle, Foot, Hip and Spine
- Abdominal: focused and complete
- Cardiac: focused and complete
- Vascular: Carotid, LE arterial duplex, LE indirect testing, Venous)
- U/S Guided Procedures: Vasc access, Pneumothorax, Pericardiocentesis, Paracentesis, Lumbar puncture
- Superficial Structures: Ocular, Fracture/ reduction evaluation, Joint aspiration/ injection, Foreign body localization, Thyroid evaluation

Course Instructors (for both one & two day):

Mark Swanson, RT, RDMS, RVT
Brian Schenker, MBA, RDMS, RVT
Charlotte Derr, MD, RDMS, FACEP
Bonnie Starr, RDMS, RVT



Two-Day - All Specialties - Scanning Skills Workshop

SO2-162 | PRSO-161



Available Date(s): **July 30-31, 2016**

May 21-22, 2016 (Puerto Rico - Prices TBD)

16 AMA PRA Category 1 Credit(s)[™]

Also meets CME requirements for ARDMS

Advanced Registration: \$1,690.00

Regular Registration: \$1,790.00

The Advanced Registration Price is honored if payment is made/post-marked 21 days or more prior to the beginning date of the program.

A \$100.00 Late Fee (\$100 over the posted Regular Registration Price) will apply if registering less than or equal to 7 Days before the course.

Objectives:

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 examinations under supervised conditions to help fulfill credentialing and/or individual certification requirements

Choose your Specialty (Intermediate and Advanced specialties):

- Musculoskeletal: Shoulder, Elbow, Wrist and Hand, Knee, Ankle, Foot, Hip and Spine
- Abdominal: focused and complete
- Cardiac: focused and complete
- Vascular: Carotid, LE arterial duplex, LE indirect testing, Venous)
- U/S Guided Procedures: Vasc access, Pneumothorax, Pericardiocentesis, Paracentesis, Lumbar puncture
- Superficial Structures: Ocular, Fracture/ reduction evaluation, Joint aspiration/ injection, Foreign body localization, Thyroid evaluation

Notice for Hands-on and Scan Only Workshops:

Participants are only able to register for the hands-on workshops if you are registered in that particular specialty and currently practicing in that particular modality, or have taken a prior Gulfcoast Ultrasound Institute course on that modality. (If you have taken a similar course please provide required documentation). If you are not registered or have never attended a course previously you are required to complete the corresponding online course before attending the hands-on only session.



Online Courses for

Individuals, Hospital Networks/Professional Groups & Educators



Gulfcoast Ultrasound Institute leads the way by offering more choices to obtain your ultrasound education *"Any Way You Want It!"*

Advance your ultrasound education and improve your diagnostic skills with an Online Course. These courses are designed for busy medical professionals who are unable to attend a regularly scheduled program. Special pricing is available for educators or groups of five or more individuals needing expert ultrasound training.

Each online course provides a strong foundation to perform the core ultrasound applications as outlined in the various ultrasound specialty practice guidelines. Courses are taught by leading ultrasound professionals in an interactive, modular format that maximize the learning experience.

For the perfect blended-education experience, combine your online course with a regularly scheduled hands-on program, on-site workshop or one-on-one private, hands-on session.

Individual Online Course Pricing

Online Courses	Credits	Price
Abdominal Ultrasound Registry Review	22.5	\$788.00
Intro to Abdominal Doppler Ultrasound	9.75	\$399.00
Intro to Adult Echocardiography	20	\$925.00
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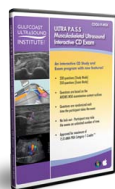
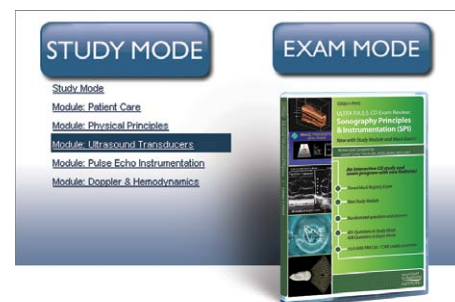
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Edited by: Lori Green, BA, RDMS, RDCS, RVT, RT(R)

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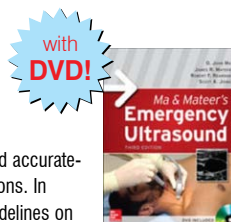
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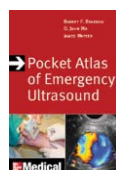


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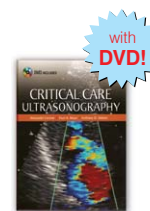


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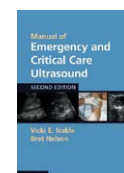


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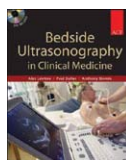


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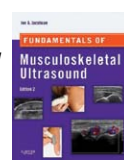


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FMU2 Soft bound book; ISBN# 9781455738182 (© 2007 Saunders, 382 pages) Shp. Wt. 2 lbs.

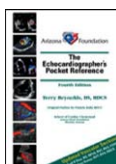


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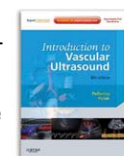


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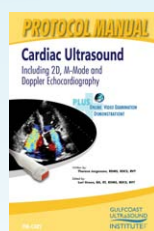
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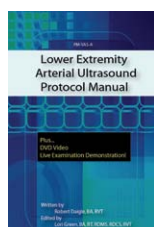
Including 2D, M-Mode, and Doppler Echocardiography - Includes Online Video Demonstration.

Written by: Theresa Jorgensen, RDMS, RDCS, RVT
Edited by: Lori Green, BA, RT, RDMS, RDCS, RVT

After reviewing this material the participant should be able to:

1. List the indications and applications for performing cardiac ultrasound examinations.
2. Perform routine procedures, views, and scan techniques associated with performing a cardiac ultrasound examination.
3. State the appropriate 2D, M-Mode and Doppler measurements included in a routine cardiac ultrasound examination.
4. Apply the information in a clinical setting.

Manual & Online Video - ISBN# 978-1-934864-67-8
(©2013) • Shp. Wt. 1 lb. \$69.95
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PM-VAS-A

Lower Extremity Arterial Ultrasound Protocol Manual

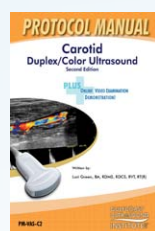
Includes DVD Exam Demonstration

Written by: Robert Daigle, BA, RVT, FSVU
Edited by: Lori Green, BA, RT, RDMS, RDCS, RVT

After reviewing this material the participant should be able to:

1. List the indications and applications for performing lower extremity arterial examinations.
2. Cite a routine protocol for performing lower extremity arterial duplex/color and physiologic testing methods.
3. Apply standard measurements and diagnostic criteria for duplex/color evaluation of the lower extremity.
4. State diagnostic criteria for indirect evaluation of lower extremity arterial disease.

Manual & DVD - ISBN# 978-1-932680-06-5
(©2005, Reviewed 2014) • Shp. Wt. 1 lb. . . \$69.95
2* **AMA PRA Category 1 Credits™** (extra \$25 CME fee)



PM-VAS-C2

Carotid Ultrasound Protocol Manual, 2nd Edition

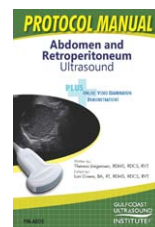
Includes Online Video Examination Demonstration

Written by: Lori Green, BA, RT, RDMS, RDCS, RVT

After reviewing this material the participant should be able to:

1. List the indications & applications for performing carotid duplex/color flow imaging.
2. Cite a routine protocol for a complete carotid ultrasound examination.
3. Apply standard measurements included in a routine examination.
4. List the hardcopy documentation included in a routine examination.

Manual & Online Video - ISBN# 978-1-940954-28-8
(©2014) • Shp. Wt. 1 lb. \$69.95
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PM-ABD2

NEW! Abdominal & Retroperitoneum Ultrasound Protocol Manual

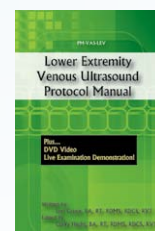
Includes Online Video Examination Demonstration

Written by: Theresa Jorgensen, RDMS, RDCS, RVT

After reviewing this material the participant should be able to:

1. List the indications and applications for performing abdominal ultrasound examinations.
2. Cite routine procedures, views, and scan techniques associated with performing an abdominal ultrasound examination.
3. State routine protocol for performing an abdominal aorta ultrasound.
4. Apply the appropriate measurements included in a routine examination.

Manual & Online Video - ISBN# 978-1-940954-24-0
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PM-VAS-LEV

Lower Extremity Venous Ultrasound Protocol Manual

Includes DVD Examination Demonstration

Written by: Lori Green, BA, RT, RDMS, RDCS, RVT
Edited by: Corky Hecht, BA, RT, RDMS, RDCS, RVT

After reviewing this material the participant should be able to:

1. List the indications and applications for performing lower extremity venous duplex examinations.
2. Cite a routine protocol for a complete venous duplex ultrasound examination of the lower extremity.
3. State imaging techniques for evaluation of the superficial venous system of the lower extremity.
4. Apply standard diagnostic criteria for evaluation of DVT and venous insufficiency.
5. List the hardcopy documentation included in a routine examination.

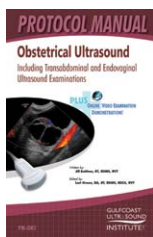
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PM-OB2

OB Ultrasound Protocol Manual

Including transabdominal and endovaginal exams

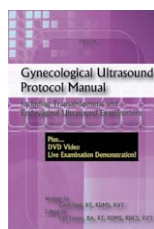
Includes Online Video Examination Demonstration

Written by: Jill Beithon, RT (R), RDMS, RDCS, RVT

After reviewing this material the participant should be able to:

1. List the indications and applications for performing an OB ultrasound exam.
2. Implement proper equipment preparation for performing a transabdominal and endovaginal OB ultrasound examination.
3. Cite a routine protocol for a transabdominal and endovaginal OB ultrasound examination.
4. Apply standard measurements included in first, second, and third trimester examinations.

Manual & Online Video - ISBN# 978-1-940954-07-3
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PM-GYN

GYN Ultrasound Protocol Manual

Including transabdominal and endovaginal exams

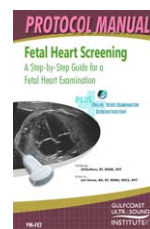
Includes DVD Transabdominal Exam Demonstration

Written by: Carol Neil, RT, RDMS, RVT

After reviewing this material the participant should be able to:

1. List the indications and applications for performing a GYN ultrasound exam.
2. Demonstrate proper equipment preparation for performing a transabdominal and endovaginal ultrasound examination.
3. Cite a routine protocol for a transabdominal and endovaginal ultrasound examination.
4. Apply standard measurements included in a routine examination.

Manual & DVD - ISBN# 978-1-931999-87-8
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PM-FE2

Fetal Heart Screening Ultrasound Protocol Manual

Includes Online Video Examination Demonstration

Written by: Jill Beithon, RT (R), RDMS, RDCS, RVT

After reviewing this material the participant should be able to:

1. List the indications and applications for performing fetal echocardiography.
2. Cite a routine protocol for a basic fetal echo screening.
3. Apply standard measurements included in a routine examination.
4. List the hardcopy documentation included in a routine examination.

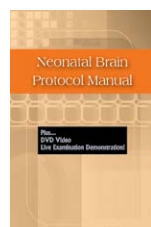
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(See Page 3 for details)



PM-NB

Neonatal Brain Ultrasound Protocol Manual

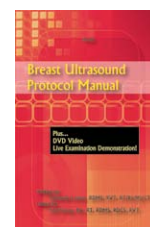
Includes DVD Examination Demonstration

Written by: Kristin Dykstra-Downey, AS, RT(R), RDMS

After reviewing this material the participant should be able to:

1. List the indications and applications for performing neonatal brain sonography.
2. Demonstrate patient preparation, physical assessment and appropriate transducer selection for performing a U/S evaluation of the neonatal brain.
3. State specific anatomy evaluated and outline a routine protocol for a complete neonatal brain ultrasound.

Manual & DVD - ISBN# 978-1-932680-58-4
(©2006, Reviewed 2012) • Shp. Wt. 1 lb. \$69.95
2* **AMA PRA Category 1 Credits™** (extra \$25 CME fee)



PM-BR

Breast Ultrasound Protocol Manual

Includes DVD Examination Demonstration

Written by: Trudie Layton, RDMS, RVT, RT (R)(M) (CT)
Edited by: Lori Green, BA, RT, RDMS, RDCS, RVT

After reviewing this material the participant should be able to:

1. List the indications and applications for performing a breast ultrasound examination.
2. Cite a routine protocol for a complete breast ultrasound examination.
3. Apply standard measurements included in a routine examination.
4. List the sonographic characteristics essential in breast mass evaluation.

Manual & DVD - ISBN# 978-1-932680-01-0
(©2004, Reviewed 2013) • Shp. Wt. 1 lb. \$69.95
2* **AMA PRA Category 1 Credits™** (extra \$25 CME fee)

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Gulfcoast Ultrasound Institute has produced and continues to translate all of our ultrasound courses to be viewed in a digital format. These presentations may be purchased in DVD or Online Video formats. DVDs may be purchased individually or as part of a DVD Course Pack. We have listed the items below in categories based on related topics.

Ultrasound Physics & Occupational Injury - All DVDs in any Course Pack can be ordered separately

COURSE PACK



Ultrasound Physics - General & Doppler - \$267.30 (reg. \$297.00)

(CP-PHYS)

4.5* AMA PRA Category 1 Credits™

Introduction to Cardiac Doppler Ultrasound | Daniel Bourque MS, RCS, FASE | \$99.00



VL-50-CD DVD; 1.0* AMA PRA Category 1 Credits™. Extra \$25.00 fee for CME quiz processing. ISBN# 978-1-934864-97-5 (© 2013, 84 mins) Ship Wt. 1lb.

Objectives: State the basics of Doppler including the use of PW and CW Doppler, demonstrate system optimization for proper Doppler acquisition, summarize Doppler assessment of valves including the various windows to use in evaluating each valve, list Doppler measurement techniques & method to quantify disease, outline chamber pressures with velocity/pressure conversion, and evaluate timing of flow (systole & diastole) and correlate with ECG.



Ultrasound Imaging Fundamentals: The Basics | Lori Green, BA, RT, RDMS, RDCS, RVT | \$99.00

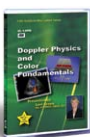


VL-IF DVD; 1.5* AMA PRA Category 1 Credits™. Extra \$25.00 fee for CME quiz processing. ISBN# 978-1-934864-45-6 (©2012, Reviewed 2014, 73 mins.) Ship. Wt. 1lb.

Objectives: Cite the interaction of sound with soft-tissue and other mediums, State the relationship of transducer frequency to resolution, penetration and attenuation, list different types of transducers and their selection for different applications, optimize system parameters to maximize resolution and improve diagnostic accuracy, and recognize commonly seen imaging artifacts.



Doppler Physics and Color Fundamentals | Lori Green, BA, RT, RDMS, RDCS, RVT | \$99.00



VL-1-DPD2 DVD; 2.0* AMA PRA Category 1 Credits™. Extra \$25.00 fee for CME quiz processing. ISBN# 978-1-934864-23-4 (© 2010, reviewed 2013, 98 minutes) Wt. 1lb.

Objectives: Apply Doppler physics and cite the factors affecting the qualitative and quantitative assessments of blood flow, optimize system controls for accurate blood flow evaluation using spectral and color Doppler instrumentation, list the advantages and disadvantages of pulsed wave and continuous wave Doppler instrumentation, state the specific clinical applications for spectral, color and power Doppler instrumentation, identify commonly seen artifacts associated with spectral Doppler, color Doppler and Power Doppler techniques and instrumentation.



Urology Ultrasound Series

Ultrasound Evaluation of the Acute Scrotum | Theresa Jorgensen, RDMS, RDCS, RVT | \$99.00

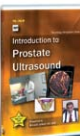


VL-39-ASC DVD; 1.0* AMA PRA Category 1 Credits™. Extra \$25.00 fee for CME quiz processing. ISBN# 978-1-934864-66-2 (© 2013, 51 mins) Ship. Wt. 1lb.

Objectives: Identify normal scrotal and testicular anatomy; demonstrate a routine scanning protocol of the scrotum and its contents; list the common causes of acute scrotal pain; recognize the 2D and Doppler characteristics associated with the common abnormalities that affect the scrotum and its contents; increase the participant's knowledge to better perform and/or interpret a scrotal ultrasound examination.



Introduction to Prostate Ultrasound | Bruce R. Gilbert, MD, PhD | \$129.00



VL-38-P DVD; 2.5* AMA PRA Category 1 Credits™. Extra \$25.00 fee for CME quiz processing. ISBN# 978-1-932680-79-9 (© 2007, rev. 2013, 1 hr & 23 mins) Ship. Wt. 1lb.

Objectives: Identify the normal ultrasound appearance of the prostate; outline routine screening protocols for transrectal ultrasound evaluation of the prostate; list the common indications for transrectal ultrasound of the prostate; recognize the ultrasound appearance of common pathology of the prostate; demonstrate the proper documentation for the transrectal ultrasound procedure; and perform a basic protocol for the transrectal ultrasound evaluation of the prostate.



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Introduction to Abdominal Ultrasound - \$1034.95 (reg. \$1149.95)

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Abdominal & Retroperitoneum Ultrasound Protocol Manual with Online Video Exam Demo | \$69.95

PM-ABD2 Booklet + Online Video; **2.0* AMA PRA Category 1 Credits™**. Extra \$25.00 fee for CME quiz processing. ISBN# 978-1-940954-24-0 (©2014) Shp. Wt. 1lb.
Objectives: List the indications and applications for performing abdominal ultrasound examinations, cite routine procedures, views, and scan techniques associated with performing an abdominal ultrasound examination, state routine protocol for performing an abdominal aorta ultrasound and apply the appropriate measurements included in a routine examination.

NEW! Ultrasound Evaluation of the Appendix and GI Tract | Charlotte Derr, MD, RDMS, FACEP | \$99.00

VL-AGI DVD; **1.0* AMA PRA Category 1 Credits™**. Extra \$25.00 fee for CME quiz processing. ISBN# 978-1-940954-54-7 (© 2015, 38 minutes) Shp. Wt. 1lb.
Objectives: Increase knowledge and competence to perform and/or interpret ultrasound of the appendix and GI tract, identify normal characteristics of the GI tract and appendix, list the benefits and pitfalls of ultrasound in the GI tract and identify ultrasound characteristics associated with pyloric stenosis, intussusception, small bowel obstruction, appendicitis, diverticulitis, Crohn's disease, pneumoperitoneum, and necrotizing enterocolitis.

NEW! Normal Liver, Gallbladder, Biliary Tree, and Spleen Sonography | Salvatore LaRusso, M.Ed, RDMS, RT(R) and Brian Schenker, MBA, RDMS, RVT | \$129.00

VL-LGBS DVD; **2.0* AMA PRA Category 1 Credits™**. Extra \$25.00 fee for CME quiz processing. ISBN# 978-1-940954-53-0 (© 2015, 87 mins) Shp. Wt. 1lb.
Objectives: Outline normal liver/GB anatomy/physiology, recognize normal ultrasound characteristics associated with the liver, GB, biliary tree and spleen and state routine protocols for evaluation of the liver, GB, biliary tree, and spleen.

NEW! Ultrasound Evaluation of the Liver, Gallbladder, and Biliary Tree Pathology | Salvatore LaRusso, M.Ed, RDMS, RT(R) | \$129.00

VL-LGBP DVD; **2.0* AMA PRA Category 1 Credits™**. Extra \$25.00 fee for CME quiz processing. ISBN# 978-1-940954-52-3 (© 2015, 84 mins) Shp. Wt. 1lb.
Objectives: Outline commonly seen liver pathology, recognize ultrasound characteristics associated with commonly seen liver pathology, increase confidence to identify commonly seen pathology, outline commonly seen GB and biliary tree pathology, recognize ultrasound characteristics associated with commonly seen GB and biliary tree pathology, apply diagnostic criteria to interpret pathology of the GB and biliary tree and increase confidence to identify commonly seen GB and biliary tree pathology.

NEW! Renal Ultrasound Imaging | Salvatore LaRusso, M.Ed, RDMS, RT(R) | \$99.00

VL-REN DVD; **1.5* AMA PRA Category 1 Credits™**. Extra \$25.00 fee for CME quiz processing. ISBN# 978-1-940954-36-3 (© 2015, 51 mins) Shp. Wt. 1lb.
Objectives: Describe the scanning techniques to image the kidneys and bladder, discuss the anatomic location, function, and ultrasound appearance of the kidneys and bladder, define the common renal pathologies and identify the ultrasound appearance of commonly seen renal pathologies.

Ultrasound Imaging Fundamentals: The Basics | Lori Green, BA, RT, RDMS, RDCS, RVT | \$99.00

VL-IF DVD; **1.5* AMA PRA Category 1 Credits™**. Extra \$25.00 fee for CME quiz processing. ISBN# 978-1-934864-45-6 (©2012, 73 mins.) Shp. Wt. 1lb.

Abdominal Sonography Anatomy Overview & Scan Fundamentals | Theresa Jorgensen, RDMS, RDCS, RVT | \$99.00

VL-31-AS DVD; **1.0* AMA PRA Category 1 Credits™**. Extra \$25.00 fee for CME quiz processing. ISBN# 978-1-934864-64-7 (©2013, 47 mins.) Shp. Wt. 1lb.

Ultrasound Evaluation of the Pancreas | Salvatore LaRusso, M.Ed, RDMS, ARRT | \$99.00

VL-PAN DVD; **1.25* AMA PRA Category 1 Credits™**. Extra \$25.00 fee for CME quiz processing. ISBN# 978-1-940954-37-0 (© 2014, 42 minutes) Shp. Wt. 1lb.
Objectives: State the function of the pancreas and identify the normal anatomy and relevant vascular landmarks, Outline routine scan protocols for performing a pancreas ultrasound examination, List the normal pancreas ultrasound characteristics and measurement values and identify commonly seen pancreatic pathology and describe associated diagnostic criteria.

Mesenteric and Porto-Hepatic Duplex Sonography | Phillip J Bendick, PhD, RVT, FSDMS, FSVU | \$99.00

VL-MPD DVD; **1.5* AMA PRA Category 1 Credits™**. Extra \$25.00 fee for CME quiz processing. ISBN# 978-1-940954-05-9 (© 2014, 1 hr 18 mins) Shp. Wt. 1lb.
Objectives: Evaluate the mesenteric arterial circulation for clinically significant chronic ischemia, perform a standard protocol to document hemodynamic changes associated with portal hypertension and evaluate the hepatic veins and inferior vena cava.

Introduction to Transplant Sonography | Phillip J Bendick, PhD, RVT, FSDMS, FSVU | \$129.00

VL-ITS DVD; **2.0* AMA PRA Category 1 Credits™**. Extra \$25.00 fee for CME quiz processing. ISBN# 978-1-940954-13-4 (© 2014, 1 hr 22 mins) Shp. Wt. 1lb.
Objectives: State the history and recent advances in transplant surgery, list the different surgical techniques used for organ transplants and the implications for findings during post-operative sonography, perform imaging of the normal transplant organ and recognize common abnormal findings indicating possible transplant compromise, and identify Doppler ultrasound findings in the normal transplant organ and state the implications of commonly seen abnormal findings.

Ultrasound Imaging of the Abdominal Aorta | Lori Green, BA, RT, RDMS, RDCS, RVT | \$99.00

VL-33-AA2 DVD; **1.0* AMA PRA Category 1 Credits™**. Extra \$25.00 fee for CME quiz processing. ISBN# 978-1-934864-68-5 (© 2013, 41 mins) Shp. Wt. 1lb.
Objectives: State the purpose of performing an abdominal aorta U/S examination; recognize the abdominal aorta and primary branches; outline scan techniques used to evaluate the abdominal aorta; identify U/S characteristics of aneurysm, dissection, and rupture; state the indications & benefits of performing U/S screening for abdominal aortic aneurysm.

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Ultrasound Imaging Fundamentals: The Basics | Lori Green, BA, RT, RDMS, RDCS, RVT | \$99.00

VL-IF DVD; **1.5* AMA PRA Category 1 Credits™**. Extra \$25.00 fee for CME quiz processing. ISBN# 978-1-934864-45-6 (© 2013, 73 minutes) Shp. Wt. 1lb.
Objectives: Cite the interaction of sound with soft-tissue and other mediums, state the relationship of transducer frequency to resolution, penetration and attenuation, list different types of transducers and their selection for different applications, optimize system parameters to maximize resolution and improve diagnostic accuracy, and recognize commonly seen imaging artifacts.

NEW! Ultrasound Evaluation of the Thyroid | Salvatore LaRusso, M.Ed, RDMS, RT(R) | \$99.00

VL-UET DVD; **1.5* AMA PRA Category 1 Credits™**. Extra \$25.00 fee for CME quiz processing. ISBN# 978-1-940954-51-6 (© 2015, 43 minutes) Shp. Wt. 1lb.
Objectives: Recognize the sonographic appearance of the normal thyroid gland, recognize the sonographic appearance of an abnormal parathyroid gland, identify the sternocleidomastoid muscle, state the function of the thyroid gland and identify commonly seen thyroid pathology. **Topics:** Thyroid and parathyroid anatomy/physiology, thyroid scan protocols, normal thyroid ultrasound characteristics, ultrasound evaluation of thyroid pathology: Goiter, hyperplasia, Cyst, adenoma, and carcinoma, Hashimoto's disease, Graves' disease and Hyperparathyroidism.

Thyroid Pathology and Ultrasound-Guided Intervention | Jennifer Sipos, MD | \$99.00

VL-TPI DVD; **1.25* AMA PRA Category 1 Credits™**. Extra \$25.00 fee for CME quiz processing. ISBN# 978-1-934864-78-4 (© 2013, 65 mins minutes) Shp. Wt. 1lb.
Objectives: Identify ultrasound characteristics of benign and suspicious thyroid nodules, outline the ultrasound examination protocols of the neck in patients with thyroid cancer for identification of recurrent/residual disease, list available interventions for ultrasound of the neck including the various ultrasound-guided fine needle aspiration techniques.

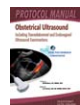
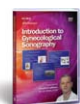
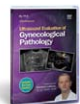


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Ultrasound Imaging Fundamentals: The Basics | Lori Green, BA, RT, RDMS, RDCS, RVT | \$99.00**VL-IF DVD; 1.5* AMA PRA Category 1 Credits™.** Extra \$25.00 fee for CME quiz processing. ISBN# 978-1-934864-45-6 (©2012, Reviewed 2014, 73 mins.) Shp. Wt. 1lb.
After viewing this video presentation, the participant should be able to: Cite the interaction of sound with soft-tissue and other mediums, state the relationship of transducer frequency to resolution, penetration and attenuation, list different types of transducers and their selection for different applications, optimize system parameters to maximize resolution and improve diagnostic accuracy, and recognize commonly seen imaging artifacts.**Gynecological U/S Protocol Manual, with DVD Exam Demonstration** | Carol Neil, RDMS, RVT, RT | \$69.95**PM-GYN Booklet + DVD; 2.0* AMA PRA Category 1 Credits™.** Extra \$25.00 fee for CME quiz processing. ISBN# 978-1-931999-87-8 (©2004, reviewed 2013) Shp. Wt. 1lb.
After viewing this video presentation, the participant should be able to: List the indications and applications for performing a GYN ultrasound exam, demonstrate proper equipment preparation for performing a transabdominal and endovaginal ultrasound examination, cite a routine protocol for a transabdominal and endovaginal ultrasound examination, apply standard measurements included in a routine examination.**Obstetrical U/S Protocol Manual with Online Video Exam Demonstration** | Jill Beithon, RT(R), RDMS, RDCS, RVT | \$69.95**PM-OB2 Booklet + Online Video; 2.0* AMA PRA Category 1 Credits™.** Extra \$25.00 fee for CME quiz processing. ISBN# 978-1-940954-07-3 (©2014) Shp. Wt. 1lb.
After reviewing this material the participant should be able to: List the indications and applications for performing an OB ultrasound examination, implement proper equipment preparation for performing a transabdominal and endovaginal OB ultrasound examination, cite a routine protocol for a transabdominal and endovaginal OB ultrasound examination and apply standard measurements included in first, second, and third trimester examinations.**Introduction to Gynecological Sonography** | Salvatore LaRusso, M.Ed, RDMS, RT(R) | \$129.00**VL-80-2 DVD; 2.5* AMA PRA Category 1 Credits™.** Extra \$25.00 fee for CME quiz processing. ISBN# 978-1-934864-51-7 (©2012, Reviewed 2015, 106 mins) Shp. Wt. 1lb.
After viewing this video presentation, the participant should be able to: Increase knowledge/competence to better perform and/or interpret gynecological ultrasound examinations, list the differences between Transabdominal and Transvaginal scanning, recognize the female reproductive anatomy, perform the gynecologic exam transvaginal protocol, identify the sonographic appearance of normal Gynecologic anatomy, recognize the sonographic anatomic variants of uterine position.**Ultrasound Evaluation of Gynecological Pathology** | Salvatore LaRusso, M.Ed, RDMS, RT(R) | \$99.00**VL-77-2 DVD; 1.5* AMA PRA Category 1 Credits™.** Extra \$25.00 fee for CME quiz processing. ISBN# 978-1-934864-52-4 (©2012, Reviewed 2015, 72 minutes) Shp. Wt. 1lb.
After viewing this video presentation, the participant should be able to: Increase knowledge/competence to better perform and/or interpret gynecological pathology, differentiate normal and abnormal sonographic findings in the female pelvis, recognize the sonographic appearances of the more common pelvic pathology, differentiate benign from malignant Cervical pathology, list the causes of uterine enlargement, identify the sonographic appearance of a uterine polyp.**Introduction to OB Sonography: The First Trimester** | Salvatore LaRusso, M.Ed, RDMS, RT(R) | \$99.00**VL-75-2 DVD; 1.5* AMA PRA Category 1 Credits™.** Extra \$25.00 fee for CME quiz processing. ISBN# 978-1-934864-50-0 (©2012, Reviewed 2015, 77 minutes) Shp. Wt. 1lb.
After viewing this video presentation, the participant should be able to: Increase knowledge/competence to better perform and/or interpret first trimester OB sonography, identify the presence or absence of the gestational sac, differentiate between extrauterine or intrauterine embryo, identify the fetal number, identify the presence or absence of cardiac activity, state the accurate length of the crown rump for gestational age.**OB Fetal Survey: The 2nd & 3rd Trimester** | Jill Beithon, RT(R), RDMS, RDCS, RVT | \$129.00**VL-76-ST DVD; 2.5* AMA PRA Category 1 Credits™.** Extra \$25.00 fee for CME quiz processing. ISBN# 978-1-934864-43-2 (©2011, Reviewed 2014, 123 min.) Shp. Wt. 1lb.
After viewing this video presentation, the participant should be able to: List the elements necessary to document for billing the CPT code 76805, apply the AUM Practice Guidelines for a 2nd/3rd trimester ultrasound exam, demonstrate normal fetal anatomy and apply appropriate measurement techniques to assess fetal dates and appropriate fetal development during 2nd and 3rd trimester obstetrical ultrasound examinations, implement the additional documentation needed for a multiple gestation pregnancy versus a single gestation pregnancy, cite the possible increased risks with multiple gestation pregnancies, state the ultrasonic characteristics that differentiate a monochorionic pregnancy from a dichorionic pregnancy, define the purpose of a Biophysical Profile examination, increase the participant's knowledge to better perform and/or interpret multiple pregnancy ultrasound examinations and the Biophysical Profile examination.**Genetic Screening By Ultrasound** | Jane J.K. Burns, AS, RT, RDMS | \$99.00**VL-GSUSD DVD; 1.5* AMA PRA Category 1 Credits™.** Extra \$25.00 fee for CME quiz processing. ISBN# 978-1-932680-99-7 (© 2011, reviewed 2014, 79 minutes) Shp. Wt. 1lb.
After viewing this video presentation, the participant should be able to: Implement timelines for screening in the 1st and 2nd Trimesters, list components of normal and abnormal NT's in the 1st Trimester, cite most common ultrasound "markers" with T-13, 18, 21 and Turners, list pertinent labs utilized for genetic screening and their detection rates, apply protocol used for the systematic evaluation/screen for aneuploidy.**Interesting Obstetric Case Studies** | Jane J.K. Burns, AS, RT, RDMS | \$99.00**VL-78-OBC DVD; 1.5* AMA PRA Category 1 Credits™.** Extra \$25.00 fee for CME quiz processing. ISBN# 978-1-940954-01-1 (© 2013, 59 minutes) Shp. Wt. 1lb.
After viewing this video presentation, the participant should be able to: List Ultrasound techniques helpful in the evaluation of fetal abdominal and cardiac lesions, identify different types of Twin gestations, list landmarks used for the proper identification and spectral Doppler analysis of fetal twin gestations. Topics Include: Hydrops, Ebstein Anomaly, Ectopia Cordis, Congenital High Airway Obstruction Sequence (CPAM), Rhabdomyoma, Persistent Right Umbilical Vein, Choledochal cyst, Umbilical Vein Varix, Posterior Urethral Valves, Limb Body Wall Complex, Twin-Twin Transfusion Syndrome (TTTS) and Twin Reverse Arterial Perfusion (TRAP).**Screening the Fetal Heart Outflow Tracts** | Jill Beithon, RT(R), RDMS, RDCS, RVT | \$129.00**VL-FHSS DVD; 2.0* AMA PRA Category 1 Credits™.** Extra \$25.00 fee for CME quiz processing. ISBN# 978-1-940954-06-6 (© 2014, 104 mins.) Shp. Wt. 1lb.
After viewing this video presentation, the participant should be able to: State the indications and applications for performing fetal heart screening, identify ultrasound anatomy and physiology of the fetal heart, demonstrate a routine protocol for fetal heart screening, discuss the utility of the three vessels and trachea view and increase the participants' knowledge to better perform fetal heart examinations. Topics include: Fetal heart anatomy/physiology, determination of fetal situs, how to perform the outflow tract sweep, 4-Chamber, LVOT, RVOT, 3-vessel and trachea views and key sonographic characteristic to determine normalcy of the fetal heart.**Doppler Evaluation of the Fetal Heart** | Jill Beithon, RT (R), RDMS, RDCS, RVT | \$99.00**VL-FEDHD DVD; 1.0* AMA PRA Category 1 Credits™.** Extra \$25.00 fee for CME quiz processing. ISBN# 978-1-932680-97-3 (© 2011, reviewed 2014, 53 minutes). HD quality. Shp. Wt. 1 lb.
After viewing this video presentation, the participant should be able to: Cite the normal flow through the fetal heart, demonstrate proper Color and Spectral Doppler settings, define the normal appearance of Spectral Doppler waveforms commonly assessed in the fetal heart, and identify fetal cardiac anomalies which can be better evaluated with use of Color and Spectral Doppler. Topics include: Anatomy & Electrophysiology of the fetal heart, Color & Spectral Doppler, Valvular Regurgitation, Mechanical PR Interval, TEI Index.* The Gulfcoast Ultrasound Institute designates this enduring material for a maximum of (*) *AMA PRA Category 1 Credit(s)™*. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

COURSE
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15.0* AMA PRA Category 1 Credits™

(CP-ED)

**Introduction to Lung Ultrasound: The Basics** | Bret P. Nelson, MD, RDMS, FACEP | \$99.00

VL-LU DVD; 1.25* AMA PRA Category 1 Credits™. Extra \$25.00 fee for CME quiz processing. ISBN# 978-1-934864-92-0 (©2013, 65 mins.) Shp. Wt. 1lb.

After viewing this video presentation, the participant should be able to: Select the appropriate transducer for performing lung ultrasound, identify commonly seen artifacts that may affect diagnostic accuracy, outline scan protocols associated lung ultrasound, recognize imaging characteristics and apply diagnostic criteria to evaluation pneumothorax, pleural effusion and pulmonary edema.

**Abdominal Sonography Anatomy Overview & Scan Fundamentals** | Theresa Jorgensen, RDMS, RDCS, RVT | \$99.00

VL-31-AS DVD; 1.0* AMA PRA Category 1 Credits™. Extra \$25.00 fee for CME quiz processing. ISBN# 978-1-934864-64-7 (©2013, 47 mins.) Shp. Wt. 1lb.

After viewing this video presentation, the participant should be able to: List the surface anatomical landmarks as well as sonographic landmarks utilized during an abdominal ultrasound, state transducer scan planes and demonstrate the relationship between the anatomical plane and the relational anatomy of the abdomen, review sectional anatomy of the abdomen including the vasculature, organs and potential spaces, and identify the normal size, echogenicity & texture of the abdominal contents.

**Ultrasound-Guided Vascular Access** | Andreas Dewitz, MD, RDMS, FACEP | \$129.00

VL-UGVA3 DVD; 3.0* AMA PRA Category 1 Credits™. Extra \$25.00 fee for CME quiz processing. ISBN# 978-1-940954-57-8 (© 2015, 153 mins) Shp. Wt. 1 lb.

After viewing this video presentation, the participant should be able to: Demonstrate the participant's knowledge to better perform ultrasound-guided vascular access procedures, demonstrate proper transducer manipulation and system optimization to produce diagnostic images, list the advantages and disadvantages of the "In-Plane" and "Out-of-Plane" and the "Direct" vs. "Indirect" ultrasound-guided vascular access techniques, differentiate venous vs. arterial anatomy by ultrasound, identify ultrasound imaging characteristics of vessels and contiguous anatomy to determine the optimal approach for vascular access, describe ultrasound imaging characteristics of vascular pathology that would indicate a vessel is not suitable for vascular access, demonstrate the use of ultrasound guidance for Central Line vascular access, demonstrate the use of ultrasound guidance for Peripheral Line vascular access and demonstrate competence to incorporate protocols, scan techniques, and interpretation criteria to improve diagnostic/treatment accuracy.

**Ultrasound Imaging of the Abdominal Aorta** | Lori Green, BA, RT, RDMS, RDCS, RVT | \$99.00

VL-33-AA2 DVD; 1.0* AMA PRA Category 1 Credits™. Extra \$25.00 fee for CME processing. ISBN# 978-1-934864-68-5 (© 2013, 41 mins) Shp. Wt. 1lb.

After viewing this video presentation, the participant should be able to: State the purpose for performing abdominal aorta sonography, identify the abdominal aorta and its primary branches, outline scan techniques and perform routine protocols to evaluate the abdominal aorta, recognize commonly seen abdominal aortic pathology, and increase knowledge to perform and/or interpret abdominal aorta sonography.

**Ultrasound Imaging Fundamentals: The Basics** | Lori Green, BA, RT, RDMS, RDCS, RVT | \$99.00

VL-IF DVD; 1.5* AMA PRA Category 1 Credits™. Extra \$25.00 fee for CME quiz processing. ISBN# 978-1-934864-45-6 (©2012, Reviewed 2014, 73 mins.) Shp. Wt. 1lb.

After viewing this video presentation, the participant should be able to: Cite the interaction of sound with soft-tissue and other mediums, State the relationship of transducer frequency to resolution, penetration and attenuation, List different types of transducers and their selection for different applications, Optimize system parameters to maximize resolution and improve diagnostic accuracy, and recognize commonly seen imaging artifacts.

**Bedside Sonography: The Focused 2D Echo** | Theresa Jorgensen, RDMS, RDCS, RVT | \$129.00

VL-94-FE DVD; 2.0* AMA PRA Category 1 Credits™. Extra \$25.00 fee for CME quiz processing. ISBN# 978-1-934864-54-8 (©2012, Reviewed 2015, 82 minutes) Shp. Wt. 1lb.

After viewing this video, the participant should be able to: Cite the indications and advantages of a focused bedside echo (TTE), Identify the normal cardiac anatomy visualized within each of the 4 cardiac imaging windows, Demonstrate proper probe orientation for each window, Perform a focused 2-D cardiac ultrasound evaluation, Apply the basic 2-D and M-mode measurements, Increase knowledge/competence to better perform and/or interpret a focused transthoracic echocardiogram.

**Introduction to OB Sonography: The First Trimester** | Salvatore LaRusso, M.Ed, RDMS, RT(R) | \$99.00

VL-75-2 DVD; 1.5* AMA PRA Category 1 Credits™. Extra \$25.00 fee for CME quiz processing. ISBN# 978-1-934864-50-0 (© 2012, 77 minutes) Shp. Wt. 1lb.

After viewing this video presentation, the participant should be able to: Increase knowledge/competence to perform and/or interpret first trimester OB sonography, Identify the presence or absence of the gestational sac, Differentiate between extrauterine or intrauterine embryo, Identify the fetal number, Identify the presence or absence of cardiac activity, State the accurate length of the crown rump for gestational age.

**Focused Assessment with Sonography in Trauma** | Bret P. Nelson, MD, RDMS, FACEP | \$99.00

VL-97-F DVD; 1.0* AMA PRA Category 1 Credits™. Extra \$25.00 fee for CME quiz processing. ISBN# 978-1-934864-60-9 (© 2012, 49 minutes) Shp. Wt. 1 lb.

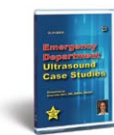
After viewing this video presentation, the participant should be able to: Increase the participant's knowledge and competence to perform and/or interpret trauma ultrasound examinations. State the imaging views and the ultrasound characteristics of the anatomy evaluated when performing trauma ultrasound. Recognize ultrasound characteristics associated with hemoperitoneum, hemopericardium, hemothorax and pneumothorax. Perform ultrasound evaluation of pneumothorax.

**Rapid Ultrasound for Shock and Hypotension** | Bret P. Nelson, MD, RDMS, FACEP | \$99.00

VL-93-RUSHHD DVD; 1.0* AMA PRA Category 1 Credits™. Extra \$25.00 fee for CME quiz processing. ISBN# 978-1-932680-77-5 (© 2010, reviewed 2013, 60 minutes) Shp. Wt. 1lb.

After viewing this video presentation, the participant should be able to: State an algorithm for assessing causes of hypotension using bedside ultrasound; identify normal and abnormal ultrasound appearance of the lungs, heart, inferior vena cava, aorta, and peritoneal space; identify scenarios where rapid bedside diagnosis of life-threatening pathology can change management in the acutely decompensating patient.

Topics include: FAST, RUSH, and HI-MAP assessments • Heart • Inferior vena Cava (IVC) • Morison's Pouch • Aorta • Pneumothorax

**Emergency Department Ultrasound Case Studies, 12 Interesting Cases** | Charlotte Derr, MD, RDMS, FACEP | \$99.00

VL-91-EDCS DVD; 1.0* AMA PRA Category 1 Credits™. Extra \$25.00 fee for CME quiz processing. ISBN# 978-1-934864-10-4 (© 2008, reviewed 2015, 58 mins) Shp. Wt. 1 lb.

After viewing this video presentation, the participant should be able to: Identify evidence of cardiogenic shock, severe left ventricular dysfunction, cardiac tamponade, and pulmonary embolus; estimate central venous pressure using inferior vena cava measurements; demonstrate how to measure and evaluate an aortic aneurysm; recognize features of a retinal detachment; evaluate for free intraperitoneal fluid, pericardial effusion, and pneumothorax in a trauma patient; look for evidence of ectopic pregnancy; recognize findings consistent with acute cholecystitis.

**Ultrasound-Guided Emergency and Critical Care Procedures** | Charlotte Derr, MD, RDMS, FACEP | \$99.00

VL-UECP DVD; 1.0* AMA PRA Category 1 Credits™. Extra \$25.00 fee for CME quiz processing. ISBN# 978-1-940954-29-5 (© 2014, 40 minutes) Shp. Wt. 1 lb.

After viewing this video presentation, the participant should be able to: Confirm placement of an endotracheal tube, identify a pneumothorax, determine the deepest pocket of fluid to facilitate the drainage of a pleural effusion, look for evidence of pericardial tamponade and describe the steps required to perform a pericardiocentesis, determine the deepest pocket of fluid to facilitate performing a paracentesis and mark the location for needle insertion prior to performing a lumbar puncture.





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(CP-AED)

8.0* AMA PRA Category 1 Credits™

**Ultrasound-Guided Nerve Blocks for the Emergency Physician** | Andreas Dewitz, MD, RDMS, FACEP | \$99.00**VL-UGNB DVD; 1.75* AMA PRA Category 1 Credits™.** Extra \$25.00 fee for CME quiz processing. ISBN# 978-1-934864-87-6 (© 2013, 83 minutes) Shp. Wt. 1 lb.

After viewing this video presentation, the participant should be able to: Cite the anatomic territories covered by specific regional nerve blocks; recognize the sonographic appearance of individual nerves and nerve plexuses on ultrasound; list common principles that apply to all U/S-guided nerve blocks; provide technical & procedural pointers that improve block success and enhance patient safety; list the advantages provided when U/S is used for performing regional nerve blocks; apply knowledge and confidence to safely perform selected ultrasound-guided regional blocks in the ED, specifically: the supraclavicular and axillary brachial plexus blocks, as well as blocks of the median, ulnar, radial, posterior tibial and sural nerves.

**Cases in Emergency Ultrasound**

Charlotte Derr, MD, RDMS, FACEP | \$99.00

VL-98-CEU DVD; 1.25* AMA PRA Category 1 Credits™. Extra \$25.00 fee for CME quiz processing. ISBN# 978-1-934864-89-0 (© 2013, 61 minutes) Shp. Wt. 1 lb.

After viewing this video presentation, the participant should be able to: Identify a perforated gallbladder, recognize characteristics of diverticulitis, look for evidence of emphysematous pyelonephritis, evaluate for evidence of pyloric stenosis, state the sonographic characteristics of a pediatric renal mass, list ultrasound features of pulmonary edema, outline how to evaluate for endocarditis, identify evidence of flexor tenosynovitis, confirm the presence of a foreign body and use ultrasound guidance for removal, state findings consistent with vitreous hemorrhage, confirm the presence of a salivary gland duct stone, and identify ultrasound findings consistent with tuboovarian abscess.

**Advanced Lung Ultrasound Applications**

Bret P. Nelson, MD, RDMS, FACEP | \$99.00

VL-ALU DVD; 1.0* AMA PRA Category 1 Credits™. Extra \$25.00 fee for CME quiz processing. ISBN# 978-1-934864-93-7 (© 2013, 44 minutes) Shp. Wt. 1 lb.

After viewing this video presentation, the participant should be able to: Select the appropriate transducer for performing lung and thoracic ultrasound, outline a standardized approach to acute respiratory failure using lung ultrasound (BLUE protocol), cite protocols associated with lung ultrasound and fluid administration for hemodynamic management of acute circulatory failure (FALLS protocol), recognize ultrasound characteristics associated with lung consolidation, and state the role of ultrasound with airway assessment and procedural intervention.

**Advanced Ultrasound-Guided Procedures**

Charlotte Derr, MD, RDMS, FACEP | \$129.00

VL-AUP DVD; 2.0* AMA PRA Category 1 Credits™. Extra \$25.00 fee for CME quiz processing. ISBN# 978-1-940954-30-1 (© 2014, 78 minutes) Shp. Wt. 1 lb.

After viewing this video presentation, the participant should be able to: Locate a soft tissue foreign body using ultrasound, evaluate a region of bone for fracture, look for evidence of tendon injury, determine the deepest pocket of fluid to facilitate the drainage of a joint effusion, differentiate cellulitis versus abscess and recognize retinal detachment, vitreous hemorrhage, and other ocular pathology. **Key topics:** Foreign body localization and removal, Fracture evaluation, Evaluation of tendon injury, Evaluation of joint effusion, Baker's Cyst, Ultrasound-guided abscess localization, Evaluation of peritonsillar abscess and Evaluation of the orbit.

**Bedside Sonography: Venous Imaging**

Lori Green, BA, RT, RDMS, RDCS, RVT | \$99.00

VL-96-VI DVD; 1.0* AMA PRA Category 1 Credits™. Extra \$25.00 fee for CME quiz processing. ISBN# 978-1-934864-62-3 (© 2012, 50 minutes) Shp. Wt. 1 lb.

After viewing this video presentation, the participant should be able to: Outline scan protocols for performing a focused evaluation of lower extremity deep venous thrombosis; recognize normal venous image and Doppler characteristics; identify sonographic findings associated with the evaluation of acute and chronic DVT; list other potential etiologies for abnormal venous ultrasound findings and/or patient symptoms; outline scan techniques and list ultrasound findings for the evaluation of upper extremity DVT.

**NEW! Ultrasound Evaluation of the Appendix and GI Tract**

Charlotte Derr, MD, RDMS, FACEP | \$99.00

VL-AGI DVD; 1.0* AMA PRA Category 1 Credits™. Extra \$25.00 fee for CME quiz processing. ISBN# 978-1-940954-54-7 (© 2015, 38 minutes) Shp. Wt. 1 lb.

After viewing this video presentation, the participant should be able to: Increase knowledge and competence to perform and/or interpret ultrasound of the appendix and GI tract, identify normal characteristics of the GI tract and appendix, list the benefits and pitfalls of ultrasound in the GI tract and identify ultrasound characteristics associated with pyloric stenosis, intussusception, small bowel obstruction, appendicitis, diverticulitis, Crohn's disease, pneumoperitoneum, and necrotizing enterocolitis.

Pediatric Ultrasound

**Ultrasound Evaluation of the Pediatric Hip**

Michael Hulse, DO, MS | \$99.00

VL-PHE 1.0* AMA PRA Category 1 Credits™. Extra \$25.00 fee for CME quiz processing. ISBN# 978-1-940954-14-1

Objectives: List indications and applications for ultrasound evaluation of the pediatric hip; identify normal characteristics of the hip anatomy. Demonstrate routine protocols for evaluation of the pediatric hip; differentiate normal, subluxable, dislocated, and teratologic dislocations; recognize ultrasound findings associated with Developmental dysplasia of the hip (DDH).

**Introduction to Pediatric Neurosonology**

Salvatore LaRusso, M.Ed., RDMS, RT(R) | \$129.00

VL-PNH 2.0* AMA PRA Category 1 Credits™. Extra \$25.00 fee for CME quiz processing. ISBN# 978-1-940954-18-9

This enduring material is designed to review normal and abnormal ultrasound characteristics associated with the evaluation of the pediatric head and neck. Upon completion of this enduring material activity, you should be able to accomplish the following: List the common indications for performing Neurosonography; state the windows for imaging, outline the importance of the falx/macadate groove; list the ACR recommendations for imaging and outline the ultrasound grading system for hemorrhage.

**Soft-Tissue & MSK Ultrasound in the Pediatric Patient**

Stephanie Doniger, MD, RDMS, FAAP, FACEP | \$99.00

VL-PSM 1.0* AMA PRA Category 1 Credits™. Extra \$25.00 fee for CME quiz processing.

ISBN# 978-1-940954-19-6 (© 2014, 40 mins) Shp. Wt. 1 lb.

This enduring material is designed to review ultrasound applications for soft-tissue and focused MSK examinations. Scan techniques, normal and abnormal ultrasound characteristics, pitfalls and scanning tips are provided. **Topics:** Ultrasound evaluation of: Cellulitis, abscess formation, foreign bodies and Ultrasound-guided I & D; fractures, joint effusions, ultrasound-guided arthrocentesis and use of ultrasound for nerve block guidance.

**Ultrasound Evaluation of the Pediatric Genitourinary System**

Salvatore LaRusso, M.Ed., RDMS, RT(R) | \$99.00

VL-PGU DVD; 1.5* AMA PRA Category 1 Credits™. Extra \$25.00 fee for CME quiz processing.

ISBN# 978-1-940954-17-2 (© 2014, 59 mins) Shp. Wt. 1 lb.

Objectives: Discuss Renal Anatomy, list the normal renal variants, describe the 3 subsets of Congenital Anomalies, understand Renal Cystic Disease, describe Renal inflammation and describe the solid tumors associated with the kidneys. **Topics Include:** Normal developmental anatomy, Ultrasound Scanning Techniques, Commonly renal variants, Anomalies of position, Anomalies of form, Anomalies of number, Congenital Obstructions, Renal cystic disease, Inflammatory Disease, Tumors/Neoplasms and Adrenal Hemorrhage.

**The Basics of Pediatric Echocardiography**

Patrick Coon, RDCS, RCCS, FASE | \$99.00

PEV-01 DVD; 1.0* AMA PRA Category 1 Credits™. Extra \$25.00 fee for CME quiz processing.

ISBN# 978-1-934864-46-3 (© 2011, Reviewed 2014, 34 mins.) Shp. Wt. 1 lb.

Objectives: Identify the basic embryology of the human heart; cite the idea of morphological diagnosis; state segmental anatomy of the heart; list the imaging planes used in pediatric echocardiography.

**Simple and Complex Pediatric Heart Disease**

Patrick Coon, RDCS, RCCS, FASE | \$99.00

PEV-02 DVD; 1.5* AMA PRA Category 1 Credits™. Extra \$25.00 fee for CME quiz processing.

ISBN# 978-1-934864-47-0 (© 2011, Reviewed 2014, 62 mins.) Shp. Wt. 1 lb.

Objectives: Apply the most common forms of simple and complex congenital heart disease; implement a segmental approach to diagnose simple and complex congenital heart disease; list the nomenclature used in describing congenital heart disease; cite the hemodynamics of simple and complex congenital heart disease.

**Post-Operative Evaluation of Congenital Heart Disease**

Patrick D. Coon, RDCS, RCCS, FASE | \$99.00

PEV-03 DVD; 1.0* AMA PRA Category 1 Credits™. Extra \$25.00 fee for CME quiz processing.

ISBN# 978-1-934864-48-7 (© 2011, Reviewed 2014, 26 mins.) Shp. Wt. 1 lb.

Objectives: State the most common surgical approaches of repairing congenital heart disease; implement a segmental approach to assess congenital heart disease surgery; list the nomenclature used in describing congenital heart surgery; cite the hemodynamics of congenital heart surgery and sequelae.

**Ultrasound Evaluation of the Appendix & Pediatric GI Tract**

Stephanie Doniger, MD, RDMS, FAAP, FACEP | \$99.00

VL-APGI DVD; 1.25* AMA PRA Category 1 Credits™. Extra \$25.00 fee for CME quiz processing.

ISBN# 978-1-934864-94-4 (© 2013, 51 mins.) Shp. Wt. 1 lb.

Objectives: State applications of point-of-care ultrasound unique to pediatrics, outline scan protocols and techniques for evaluation of the appendix and pediatric GI tract, recognize ultrasound characteristics associated with GI disorders: appendicitis, intussusceptions, and pyloric stenosis, integrate techniques to perform ultrasound of the pediatric GI tract, incorporate ultrasound into the clinical assessment and management of patients presenting with GI disorders, and cite the limitations for ultrasound evaluation of the pediatric GI tract.

**Ultrasound Evaluation of the Neonatal Spine**

Michael Hulse, DO, MS / Salvatore LaRusso, M.Ed., RDMS, RT(R) | \$99.00

VL-PSU 1.0* AMA PRA Category 1 Credits™. Extra \$25.00 fee for CME quiz processing.

ISBN# 978-1-940954-15-8 (© 2014, 42 mins) Shp. Wt. 1 lb.

Objectives: List indications and applications for performing spinal ultrasonography; identify spine anatomy, including normal variants; state examination techniques and protocols for ultrasound evaluation of the pediatric spine; recognize ultrasound characteristics and diagnostic criteria associated with the ultrasound evaluation of spinal dysraphism, tethered cord, disorder of caudal mass and congenital anomalies.

**Pediatric Emergency & Critical Care and Ultrasound, 1st Ed.**

Stephanie J. Doniger, MD, RDMS, FAAP, FACEP | \$135.00

PECU1 Hardback; © 2014 Cambridge Univ. Press; 367 pgs; ISBN# 9781107062344 • Shp. Wt. 3 lbs

The first comprehensive bedside ultrasonography resource focusing on pediatric patients, Pediatric Emergency and Critical Care Ultrasound explains the principles of ultrasound, its diagnostic application in all organ systems and its use as a procedural adjunct. Essential reading for pediatric emergency physicians, adult emergency physicians, intensivists/critical care physicians and pediatricians.

**Emergency Ultrasound for Pediatric Patients**

James Mater, MD, RDMS, FACEP | \$99.00

VL-92-EUPP DVD; 1.0* AMA PRA Category 1 Credits™. Extra \$25.00 fee for CME quiz processing.

ISBN# 978-1-934864-09-8 (© 2009, reviewed 2012, 61 mins.) Shp. Wt. 1 lb.

Objectives: Identify diagnostic ultrasound applications which apply to both pediatric and adult patients; state specific pediatric uses for bedside ultrasonography; demonstrate ultrasound guidance procedures for pediatric emergencies. **Topics Include:** Trauma, Acute Abdomen, Pelvic Complaints, Procedural Guidance, Soft Tissue Applications, and Cardiac.

**Live Pediatric Cardiac Imaging Demonstration**

Patrick D. Coon, RDCS, RCCS, FASE | \$120.00

PEV-4D DVD; 1.0* AMA PRA Category 1 Credits™. Extra \$25.00 fee for CME quiz processing.

ISBN# 978-1-932680-10-2 (© 2004, Reviewed 2012, 27 mins.) Shp. Wt. 1 lb.

Objectives: Name the standard imaging planes used in pediatric echocardiography; explain what features are used to describe the cardiac structures via echocardiography; describe the imaging planes most useful in visualizing various cardiac structures; describe the imaging planes used to visualize various repairs in congenital cardiac surgery.

**Congenital Heart Defects, Simplified**

Ken Heiden, RDCS (AE, PE), RVT | \$99.00

CHDS SPIRAL BOUND BOOK. Approved for 30 SDMS CME credits upon completion of the post test through the publishers website www.heartdefectssimplified.com. ISBN# 978-0-9822709-0-5 (© 2009, 97 pgs.) Shp. Wt. 1.2 lbs.

You'll learn about: Essential concepts for nurses and sonographers, the 30 most common heart defects, other syndromes and conditions associated with congenital heart disease, the basic definitions of surgical procedures, scanning protocols for echocardiographers, and imaging tips.

**The Pediatric Echocardiographer's Pocket Ref. 3rd Edition**

Terry Reynolds, BS, RDCS, RCS | \$79.95

PEPR SPIRAL BOUND BOOK. ISBN# 978-0963576774 (© 2002, 409 pgs.) Shp. Wt. 1.1 lbs.

Pocket-sized, quick-reference manual pertaining to all areas of pediatric echocardiography. Provides an update of material, more diagrams, inclusion of two-dimensional and cardiac Doppler examples, and a more complete how-to measurement and calculation section. Text has been reorganized alphabetically for easy reference.

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



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Intro to Echocardiography Ultrasound - \$1,186.16 (reg. \$1,317.95)

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(CP-ECD)



NEW! Cardiac Ultrasound Protocol Manual with Online Video Demo | Including 2D, M-Mode, & Doppler Echo | \$69.95

PM-CAR2 Booklet + Online Video; 2.0* AMA PRA Category 1 Credits™. Extra \$25.00 fee for CME quiz processing. ISBN# 978-1-934864-67-8 (© 2013) Shp. Wt. 1lb.

Objective: List the indications and applications for performing cardiac ultrasound examinations, perform routine procedures, views and scan techniques associated with an adult cardiac ultrasound examination, state the appropriate 2D, M-Mode, and Doppler measurements included in a routine cardiac ultrasound examination, and apply the information in a clinical setting.



Intro to 2D & M-Mode Adult Echocardiography

Theresa Jorgensen, RDMS, RDCS, RVT | \$99.00

VL-40-IE DVD; 2.0* AMA PRA Category 1 Credits™. Extra \$25.00 fee for CME quiz processing. ISBN# 978-1-934864-63-0 (© 2013, Approx 111 min) Shp. Wt. 1lb.

Objective: Cite the indications and advantages of performing a comprehensive transthoracic echocardiogram, identify and describe normal cardiac anatomy, cardiac physiology, and cardiac circulation, list the normal 3-lead ECG components and its role in echocardiography, demonstrate proper probe orientation and essential scanning maneuvers to optimize imaging in each window, perform a routine 2-D cardiac ultrasound evaluation, apply the routine 2-D and M-mode measurements, and increase knowledge/competence to better perform and/or interpret a routine transthoracic echocardiogram.



Introduction to Cardiac Doppler Ultrasound

Daniel Bourque MS, RCS | \$99.00

VL-50-CD DVD; 1.0* AMA PRA Category 1 Credits™. Extra \$25.00 fee for CME quiz processing. ISBN# 978-1-934864-97-5 (© 2013, 52 mins) Shp. Wt. 1lb.

Objective: State the basics of Doppler including the use of PW and CW Doppler, demonstrate system optimization for proper Doppler acquisition, summarize Doppler assessment of valves including the various windows to use in evaluating each valve, list Doppler measurement techniques & method to quantify disease, outline chamber pressures with velocity/pressure conversion, and evaluate timing of flow (systole & diastole) and correlate with ECG.



NEW! Doppler Evaluation of Mitral & Aortic Valve Heart Disease | Dennis Atherton, BSBA, RDCS, RCS, RRT, FASE | \$129.00

VL-DMAV DVD; 2.0* AMA PRA Category 1 Credits™. Extra \$25.00 fee for CME quiz processing. ISBN# 978-1-940954-39-4 (© 2015, 110 min) Shp. Wt. 1lb.

Objective: Identify common pathology for mitral valve disease, recognize cardiology pathology and correlate the two dimensional and Doppler echocardiography findings associated with various types of mitral valve disease, perform routine Doppler measurements and apply the Doppler criteria for grading mitral valve stenosis and insufficiency, identify common pathology for aortic valve disease recognize cardiology pathology and correlate the two dimensional and Doppler echocardiography findings associated with various types of aortic valve disease and perform routine Doppler measurements and apply the Doppler criteria for grading aortic valve stenosis and insufficiency.



NEW! Echocardiographic Evaluation of Mitral & Aortic Valve Heart Disease | Dennis Atherton, BSBA, RDCS, RCS, RRT, FASE | \$129.00

VL-EMAV DVD; 2.0* AMA PRA Category 1 Credits™. Extra \$25.00 fee for CME quiz processing. ISBN# 978-1-940954-38-7 (© 2015, 115 min.) Shp. Wt. 1lb.

Objective: Identify pathology commonly seen with mitral valve disease, correlate clinical symptoms associated with commonly seen mitral valve with the two dimensional echocardiogram, identify common pathology for aortic valve disease, recognize cardiology pathology associated with each type of aortic valve and correlate the clinical symptoms associated with aortic valve disease with the two dimensional echocardiogram.



NEW! Echocardiographic Evaluation of Coronary Artery Disease | Dennis Atherton, BSBA, RDCS, RCS, RRT, FASE | \$99.00

VL-ECAD DVD; 1.5* AMA PRA Category 1 Credits™. Extra \$25.00 fee for CME quiz processing. ISBN# 978-1-940954-41-7 (© 2015, 56 minutes) Shp. Wt. 1lb.

Objective: Identify the different imaging and non-imaging techniques for evaluating coronary artery disease, demonstrate an understanding of how to perform echo imaging for myocardial infarction, identify common complications of an infarction, and measure LV contractility.



NEW! Echocardiographic Evaluation of Pericardial Effusions & Cardiac Masses | Dennis Atherton, BSBA, RDCS, RCS, RRT, FASE | \$99.00

VL-PECM DVD; 1.0* AMA PRA Category 1 Credits™. Extra \$25.00 fee for CME quiz processing. ISBN# 978-1-940954-45-5 (© 2015, 27 mins) Shp. Wt. 1lb.

Objective: Increase the participant's knowledge to better perform and/or interpret pericardial effusions and cardiac masses with echocardiography and identify the ultrasound findings associated with pericardial disease and cardiac masses.



NEW! Echocardiographic Evaluation of Cardiomyopathies

Dennis Atherton, BSBA, RDCS, RCS, RRT, FASE | \$99.00

VL-EEC DVD; 1.5* AMA PRA Category 1 Credits™. Extra \$25.00 fee for CME quiz processing. ISBN# 978-1-940954-42-4 (© 2015, 54 mins) Shp. Wt. 1lb.

Objective: Differentiate the types of cardiomyopathy seen in echocardiography, list the techniques to use to evaluate each type of cardiomyopathy and identify echocardiographic features and apply diagnostic criteria associated with the various types of cardiomyopathies.



Contrast Echocardiography

Daniel Bourque, MS, RCS | \$99.00

VL-51-CEC DVD; 1.5* AMA PRA Category 1 Credits™. Extra \$25.00 fee for CME quiz processing. ISBN# 978-1-934864-77-7 (© 2013, 76 minutes) Shp. Wt. 1lb.

Objective: List appropriate indications for use of contrast, outline administration techniques and instrument settings when contrast is utilized, and interpret contrast acquired information.



Cardiac Hemodynamics

Richie Palma, BS, RDCS, APS, FASE | \$99.00

VL-52-CAH DVD; 1.0* AMA PRA Category 1 Credits™. Extra \$25.00 fee for CME quiz processing. ISBN# 978-1-934864-76-0 (© 2013, 56 minutes) Shp. Wt. 1lb.

Objective: State the value of echocardiographic assessment of cardiac hemodynamics, demonstrate the various calculations used to assess the pressures within the heart, and list technical caveats that may affect accuracy when performing hemodynamic calculations.



Ultrasound Evaluation of Heart Failure and Left Ventricular Dyssynchrony | Daniel Bourque, MS, RCS | \$99.00

VL-57-HFD DVD; 1.5* AMA PRA Category 1 Credits™. Extra \$25.00 fee for CME quiz processing. ISBN# 978-1-934864-95-1 (© 2013, 76 minutes) Shp. Wt. 1lb.

Objective: State origins and impacts dyssynchrony can have on heart failure, outline assessment techniques to determine dyssynchrony, differentiate inter-ventricular dyssynchrony, and recognize dyssynchrony patterns.



NEW! Echocardiographic Evaluation of Diastolic Function | Dennis Atherton, BSBA, RDCS, RCS, RRT, FASE | \$99.00

VL-EEDF DVD; 1.0* AMA PRA Category 1 Credits™. Extra \$25.00 fee for CME quiz processing. ISBN# 978-1-940954-43-1 (© 2015, 43 min.) Shp. Wt. 1lb.

Objective: State the importance of the echocardiographic evaluation of diastolic function, demonstrate an understanding of the importance of diastology, list technical potential pitfalls in diastolic echo acquisition, demonstrate how to measure diastolic function, identify the degree of diastolic dysfunction during case review and demonstrate the use of contrast agents for left ventricular assessment, Doppler enhancement and to document LV structural abnormalities.



NEW! Echocardiographic Evaluation of Right Heart Disease | Dennis Atherton, BSBA, RDCS, RCS, RRT, FASE | \$99.00

VL-ERHD DVD; 1.0* AMA PRA Category 1 Credits™. Extra \$25.00 fee for CME quiz processing. ISBN# 978-1-940954-40-0 (© 2015, 40 min.) Shp. Wt. 1lb.

Objective: Identify the normal anatomy and function of the right heart, recognize and quantify tricuspid valve disease, identify and quantify pulmonic valve disease and diagnosis pulmonary emboli and common echo findings.



Ultrasound Evaluation of Heart Failure | Daniel P. Bourque, MS, BS, RCS | \$129.00

VL-56-HF DVD; 2.0* AMA PRA Category 1 Credits™. Extra \$25.00 fee for CME processing. ISBN# 978-1-940954-00-4 (© 2013, 92 minutes). Shp. Wt. 1 lb.

Upon completion of this enduring material activity, you should be able to accomplish the following: Identify potential triggers of heart failure; Evaluate and assess heart failure through echocardiography; Cite advanced quantification techniques for echo assessment of heart failure.



Stress Echocardiography | Richie Palma, BS, RDCS, RCS, APS, FASE | \$99.00

VL-53-SE DVD; 1.5* AMA PRA Category 1 Credits™. Extra \$25.00 fee for CME quiz processing. ISBN# 978-1-940954-02-8 (© 2013, Approx 138 min) Shp. Wt. 1lb.

After viewing this enduring material, the participant should be able to: List the indications and benefits of stress echocardiography. State the sensitivity and specificity of stress echo compared with nuclear perfusion imaging. Outline examination protocols for performing stress echocardiography and image acquisition. Apply diagnostic criteria for interpreting stress echocardiograms. Recognize normal and abnormal response to stress echo.



Introduction to 3D Cardiac Imaging | \$99.00 Dennis Atherton, BSBA, RDCS, RCS, RRT, FASE | \$99.00

VL-46-TDE DVD; 1.25* AMA PRA Category 1 Credits™. Extra \$25.00 fee for CME quiz processing. ISBN# 978-1-940954-08-0 (© 2014, Approx 56 min) Shp. Wt. 1lb.

Upon completion of this enduring material, you should be able to accomplish the following: State imaging protocols and views for 3D cardiac imaging. List practical uses of 3D imaging in the clinical setting. Outline steps required to obtain images of specific pathology. Acquire and quantify data for 3D ejection fraction. Improve confidence and competence for integrating 3D imaging into the clinical setting.

F.A.S.T. Exam Pocket Reference | \$14.95



PR-FAST Spiral-Bound Booklet; (© 2010, 17 pages) Shp. Wt. 1lb.
The new F.A.S.T. 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.

- Laminated, easy-to-clean 15-page guides
- Flexible, spiral-bound booklets
- Quick reference for focused bedside ultrasound
- Convenient pocket size: 4.5" x 6" • Most images 2.75" x 4"

Focused Echo Exam Pocket Reference | \$14.95



PR-FEE Spiral-Bound Booklet; (© 2010, 16 pages) Shp. Wt. 1lb.
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.

- Laminated, easy-to-clean 15-page guides
- Flexible, spiral-bound booklets
- Quick reference for focused bedside ultrasound
- Convenient pocket size: 4.5" x 6" • Most images 2.75" x 4"

COURSE PACK



Introduction to Carotid Ultrasound - \$624.56 (reg. \$693.95)

(CP-C)

11.5* AMA PRA Category 1 Credits™



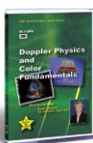
NEW! Carotid Ultrasound Protocol Manual, 2nd Edition, with Online Video Exam Demonstration | \$69.95

PM-VAS-C2 Booklet + Online Video; **2.0*** AMA PRA Category 1 Credits™. Extra \$25.00 fee for CME quiz processing. ISBN# 978-1-940954-28-8 (©2014) Shp. Wt. 1lb. After reviewing this material the participant should be able to: List the indications & applications for performing carotid duplex/color flow imaging, cite a routine protocol for a complete carotid ultrasound examination, apply standard measurements included in a routine examination and list the hardcopy documentation included in a routine examination.



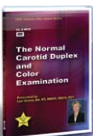
NEW! Carotid Case Studies | Phillip J. Bendick, PhD, RVT, FSDMS, FSVU | \$99.00

VL-CCS DVD; **1.5*** AMA PRA Category 1 Credits™. Extra \$25.00 fee for CME quiz processing. ISBN# 978-1-940954-47-9 (© 2015, 69 minutes) Shp. Wt. 1lb. After viewing this video presentation, the participant should be able to: Identify normal and abnormal Doppler waveforms for all the extracranial cerebrovascular vessels - CCA, ECA, ICA and Vertebral, integrate all imaging, color Doppler and spectral Doppler data to determine the diagnosis of carotid stenosis and determine valid means to select the most appropriate carotid stenosis criteria for diagnosis.



Doppler Physics and Color Fundamentals | Lori Green, BA, RT, RDMS, RDCS, RVT | \$99.00

VL-1-DPD2 DVD; **2.0*** AMA PRA Category 1 Credits™. Extra \$25.00 fee for CME quiz processing. ISBN# 978-1-934864-23-4 (© 2010, reviewed 2013, 1 hour 38 minutes) Wt. 1lb. After viewing this video presentation, the participant should be able to: Apply Doppler physics and cite the factors affecting the qualitative and quantitative assessments of blood flow, optimize system controls for accurate blood flow evaluation using spectral and color Doppler instrumentation, list the advantages and disadvantages of pulsed wave and continuous wave Doppler instrumentation, state the specific clinical applications for spectral, color and power Doppler instrumentation, identify commonly seen artifacts associated with spectral Doppler, color Doppler and Power Doppler techniques and instrumentation.



Normal Carotid Duplex/Color Examination | Lori Green, BA, RT, RDMS, RDCS, RVT | \$99.00

VL-2-NCD DVD; **1.5*** AMA PRA Category 1 Credits™. Extra \$25.00 fee for CME quiz processing. ISBN# 978-1-932680-13-3 (© 2002, reviewed 2012, 60 mins) Shp. Wt. 1lb. Lecture topics include: Identify normal image characteristics of the common carotid artery, internal carotid artery, external carotid artery, subclavian, and vertebral arteries, demonstrate waveform patterns associated with the CCA, ICA, ECA, subclavian, and vertebral arteries, list the standard measurements obtained in a routine carotid evaluation, cite a routine protocol with image documentation for performing a carotid duplex/color examination.



NEW! Ultrasound Evaluation of Intima-Media Thickness | Phillip J. Bendick, PhD, RVT, FSDMS, FSVU | \$99.00

VL-IMT2 DVD; **1.5*** AMA PRA Category 1 Credits™. Extra \$25.00 fee for CME quiz processing. ISBN# 978-1-940954-58-5 (© 2015, 48 minutes) Wt. 1lb. After viewing this video presentation, the participant should be able to: Select appropriate patients for Intima-Media Thickness measurements; measure the Intima-Media Thickness in individual patients accurately and reproducibly; apply the Intima-Media Thickness measurement to planning appropriate management of cardiovascular risk factors; increase knowledge to begin integrating the skills learned into clinical practice.



NEW! Carotid Stenosis Assessment | Phillip J. Bendick, PhD, RVT, FSDMS, FSVU | \$99.00

VL-CSA DVD; **1.5*** AMA PRA Category 1 Credits™. Extra \$25.00 fee for CME quiz processing. ISBN# 978-1-940954-33-2 (© 2014, 61 minutes) Shp. Wt. 1lb. After viewing this video presentation, the participant should be able to: Identify normal and abnormal Doppler waveforms for all the extracranial cerebrovascular vessels - CCA, ECA, ICA and Vertebral, integrate all imaging, color Doppler and spectral Doppler data to determine the diagnosis of carotid stenosis and determine valid means to select the most appropriate carotid stenosis criteria for diagnosis.

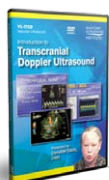


Carotid Duplex/Color Case Interpretations | Cindy Owen, RDMS, RVT | \$99.00

VL-62-CID DVD; **1.5*** AMA PRA Category 1 Credits™. Extra \$25.00 fee for CME quiz processing. ISBN# 978-1-931999-97-7 (© 2004, reviewed 2012, 59 minutes) Shp. Wt. 1lb. This DVD program features a live presentation and discussion of commonly seen carotid disease and complex case studies. Ten case studies are discussed with a detailed explanation of the duplex/color flow characteristics and how to apply current diagnostic criteria to the examination findings.

Due to the nature of its content, this CME product is non-refundable.

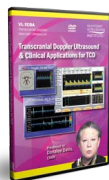
Transcranial Doppler Ultrasound



Introduction to Transcranial Doppler Ultrasound | Donalee Davis, CNRN | \$99.00

VL-ITCD DVD; **1.0*** AMA PRA Category 1 Credits™. Extra \$25.00 fee for CME quiz processing. ISBN# 978-1-934864-96-8 (©2013, 32 mins)

After viewing this video presentation the participant should be able to: Demonstrate basic knowledge of intracranial anatomy and physiology, outline proper techniques for the performance of TCD and TCI examinations, identify normal and abnormal intracranial Doppler waveform characteristics, state the clinical usefulness and limitations of TCD and TCI techniques, and apply TCD/TCI interpretation criteria.



Transcranial Doppler Ultrasound and Clinical Applications for TCD | Donalee Davis, CNRN | \$299.00

VL-TCDA DVD; **3.5*** AMA PRA Category 1 Credits™. Extra \$25.00 fee for CME quiz processing. ISBN# 978-1-934864-75-3 (©2013, 170 mins)

This enduring material is designed to provide a comprehensive review of how to perform and/or interpret TCD and TCI examinations. This five-part program will explore neuroanatomy, Doppler waveform characteristics (normal/abnormal), scan techniques, diagnostic criteria, protocols specific to TCD/TCI exams, and clinical applications for TCD/TCI which are taught in accordance with AIUM and IAC guidelines.

COURSE
PACK

Intro to Peripheral Vascular Ultrasound - \$892.71 (reg. \$991.90)

(CP-PV)

15.5* AMA PRA Category 1 Credits™

**Introduction to Lower Extremity Venous Imaging** | Robert Daigle, BA, RVT, FSVU | \$129.00**VL-23 DVD; 2.0* AMA PRA Category 1 Credits™.** Extra \$25.00 fee for CME processing. ISBN# 978-1-934864-86-9 (©2013, 98 minutes) Shp. Wt. 1lb.

After viewing this video presentation, the participant should be able to: Identify the lower extremity venous anatomy, implement routine scan protocols for performing a lower extremity venous evaluation, recognize normal and abnormal venous Doppler characteristics, differentiate sonographic characteristics of acute vs. chronic DVT, and cite Doppler findings associated with venous reflux.

**Evaluation of Venous Insufficiency & Pre-Operative Vascular Mapping** | Robert Daigle, BA, RVT, FSVU | \$99.00**VL-25 DVD; 1.0* AMA PRA Category 1 Credits™.** Extra \$25.00 fee for CME quiz processing. ISBN# 978-1-934864-81-4 (©2013, 36 minutes) Shp. Wt. 1lb.

After viewing this video presentation, the participant should be able to: State the anatomy and pathophysiology associated with venous insufficiency, outline routine protocols for duplex/color evaluation of venous insufficiency, perform routine protocols for pre and post-operative mapping protocols for venous interventional techniques, state the implications, applications, contraindications, risk factors, and clinical outcomes associated with common venous therapy techniques, and increase knowledge to perform and/or interpret venous insufficiency duplex/color examinations.

**Ultrasound Evaluation for Calf Vein Imaging** | Brian Stull, RDMS, RVT | \$99.00**VL-CVI DVD; 1.0* AMA PRA Category 1 Credits™.** Extra \$25.00 fee for CME processing. ISBN# 978-1-934864-74-6 (©2013, 48 minutes) Shp. Wt. 1lb.

After viewing this video presentation, the participant should be able to: Increase the participant's knowledge to better perform and/or interpret ultrasound evaluation of the calf veins, identify the deep veins in the calf, perform standard duplex/color flow imaging scan protocols for evaluation of calf vein DVT, recognize ultrasound characteristics associated with acute calf vein DVT, and list risk factors and treatment options associated with deep vein thrombosis.

**Introduction to Upper Extremity Venous Imaging** | Robert Daigle, BA, RVT, FSVU | \$99.00**VL-24 DVD; 1.0* AMA PRA Category 1 Credits™.** Extra \$25.00 fee for CME processing. ISBN# 978-1-934864-80-7 (©2013, 39 minutes) Shp. Wt. 1lb.

After viewing this video presentation, the participant should be able to: Identify the upper extremity venous anatomy; implement routine scan protocols for performing an upper extremity venous evaluation; recognize normal and abnormal venous Doppler characteristics; differentiate sonographic characteristics of acute vs. chronic DVT.

**Introduction to Lower Extremity Arterial Testing** | Robert Daigle, BA, RVT, FSVU | \$129.00**VL-26 DVD; 2.5* AMA PRA Category 1 Credits™.** Extra \$25.00 fee for CME processing. ISBN# 978-1-934864-82-1 (©2013, 2 hours 18 minutes) Shp. Wt. 1lb.

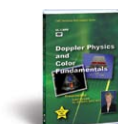
After viewing this video presentation, the participant should be able to: List arterial anatomy of the lower extremity, apply routine scan protocols for performing lower extremity arterial indirect and duplex/color examinations, cite normal and abnormal waveform characteristics for identifying arterial disease, list diagnostic criteria associated with indirect and duplex/color imaging of lower extremity arterial evaluation, and demonstrate PVR, segmental pressure and plethysmography measurements.

**Duplex Evaluation of Aneurysm/Pseudo-aneurysms and Evaluation of Arterial Bypass Grafts** | Rob Daigle, BA, RVT, FSVU | \$99.00**VL-27 DVD; 1.0* AMA PRA Category 1 Credits™.** Extra \$25.00 fee for CME quiz processing. ISBN# 978-1-934864-83-8 (©2013, 48 minutes) Shp. Wt. 1lb.

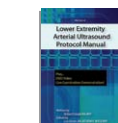
After viewing this video presentation, the participant should be able to: Cite the sonographic appearance of an abdominal aortic and popliteal aneurysm, list the diagnostic criteria for aneurysm evaluation, list the etiology of pseudo-aneurysm, recognize the duplex/color characteristics associated with pseudoaneurysm, list the treatment options for pseudo-aneurysm, bypass grafts and stents, state the various types of arterial bypass grafts, and outline protocols & diagnostic criteria for duplex/color evaluation of arterial bypass grafts and stents.

**Arterial Evaluation of the Upper Extremities** | Robert Daigle, BA, RVT, FSVU | \$99.00**VL-28 DVD; 1.0* AMA PRA Category 1 Credits™.** Extra \$25.00 fee for CME processing. ISBN# 978-1-934864-84-5 (©2013, 38 minutes) Shp. Wt. 1lb.

After viewing this video presentation, the participant should be able to: Identify the upper extremity arterial anatomy and physiology, implement routine protocols for performing upper extremity arterial evaluations, recognize normal and abnormal arterial Doppler characteristics, recognize ultrasound characteristics of occlusive disease and vasospastic disorders, and outline the pre-operative assessment for radial artery harvest for (CABG) or hemodialysis access placement.

**Doppler Physics and Color Fundamentals** | Lori Green, BA, RT, RDMS, RDCS, RVT | \$99.00**VL-1-DP2 DVD; 2.0* AMA PRA Category 1 Credits™.** Extra \$25.00 fee for CME quiz processing. ISBN# 978-1-934864-23-4 (© 2010, reviewed 2013, 1 hour 38 minutes) Wt. 1lb.

After viewing this video presentation, the participant should be able to: Apply Doppler physics and cite the factors affecting the qualitative and quantitative assessments of blood flow, optimize system controls for accurate blood flow evaluation using spectral and color Doppler instrumentation, list the advantages and disadvantages of pulsed wave and continuous wave Doppler instrumentation, state the specific clinical applications for spectral, color and power Doppler instrumentation, identify commonly seen artifacts associated with spectral Doppler, color Doppler and Power Doppler techniques and instrumentation.

**Lower Extremity Arterial Ultrasound Protocol Manual, with Live Exam Demonstration** | \$69.95**PM-VAS-A Booklet + DVD; 2.0* AMA PRA Category 1 Credits™.** Extra \$25.00 fee for CME quiz processing. ISBN# 978-1-932680-06-5 (©2005, reviewed 2011) Shp. Wt. 1lb.

After reviewing this material the participant should be able to: List the indications and applications for performing lower extremity arterial examinations. Cite a routine protocol for performing lower extremity arterial duplex/color and physiologic testing methods. Apply standard measurements and diagnostic criteria for duplex/color evaluation of the lower extremity. State diagnostic criteria for indirect evaluation of lower extremity arterial disease.

**Lower Extremity Venous Ultrasound Protocol Manual, with Live Exam Demonstration** | \$69.95**PM-VAS-LEV Booklet + DVD; 2.0* AMA PRA Category 1 Credits™.** Extra \$25.00 fee for CME quiz processing. ISBN# 978-1-932680-05-8 (©2004, reviewed 2013) Shp. Wt. 1lb.

After reviewing this material the participant should be able to: List the indications and applications for performing lower extremity venous duplex examinations, cite a routine protocol for a complete venous duplex ultrasound examination of the lower extremity, state imaging techniques for evaluation of the superficial venous system of the lower extremity, apply standard diagnostic criteria for evaluation of DVT and venous insufficiency, list the hardcopy documentation included in a routine examination.

**Reducing Your Risk for Occupational Injury** | Joan P. Baker, MSR, RDMS, RDCS, FSDMS | \$99.00**VL-RYROI DVD; 1.0* AMA PRA Category 1 Credits™.** Extra \$25.00 fee for CME quiz processing. ISBN# 978-1-934-864-13-5 (© 2008, revised 2011, 66 mins) Shp. Wt. 1lb.

This one-hour lecture will outline the characteristics of musculoskeletal strain injury (MSI) among sonographers, and its impact on the worker and employer. Participants will be presented with the information to assist in identifying risk factors in their work environment. Additionally, the value of being proactive in the prevention of occupational injury will be discussed. After viewing this video presentation, the participant should be able to: State the incidence of MSI; identify the techniques that aggravate the pain; identify the factors that cause MSI; list the Do's and Don'ts of scanning technique; identify ways to prevent MSI; define the economics of ergonomics.

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

COURSE PACK



Intro to Musculoskeletal Ultrasound - \$968.40 (reg. \$1066.00)
14.75* AMA PRA Category 1 Credits™

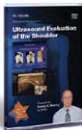
(CP-MSK)



MSK Imaging Fundamentals & Tissue Characterization | Theresa Jorgensen, RDMS, RDCS, RVT | \$99.00

VL-109-MIF DVD; 1.0* AMA PRA Category 1 Credits™. Extra \$25.00 fee for CME quiz processing. ISBN# 978-1-934864-61-6 (©2012, 38 mins). HD quality. Shp. Wt. 1lb.

After viewing this video presentation, the participant should be able to: State the basic fundamentals of ultrasound physics, demonstrate proper transducer manipulation to produce diagnostic images, and identify normal ultrasound imaging characteristics of musculoskeletal anatomy.



Ultrasound Evaluation of the Shoulder | Randy E. Moore, DC, RDMS, RMSK | \$99.00

VL-102-SH DVD; 1.5* AMA PRA Category 1 Credits™. Extra \$25.00 fee for CME processing. ISBN# 978-1-934864-41-8 (©2012, reviewed 2015, 67 mins). HD quality. Shp. Wt. 1lb.

After viewing this video presentation, the participant should be able to: Integrate techniques & protocols for performing shoulder ultrasound examinations, identify normal anatomy during musculoskeletal ultrasound imaging of the shoulder, List indications of rotator cuff tears, apply sonographic characteristics associated with rotator cuff tears, rotator cuff tendinopathy, effusions, and synovitis, cite the capabilities and limitations of musculoskeletal ultrasound imaging of the shoulder.



Ultrasound Evaluation of the Elbow | Randy Moore, DC, RDMS, RMSK | \$99.00

VL-103-EL2 DVD; 1.0* AMA PRA Category 1 Credits™. Extra \$25.00 fee for CME quiz processing. ISBN# 978-1-934864-69-2 (©2013, 29 mins). HD quality. Shp. Wt. 1lb.

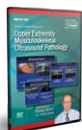
After viewing this video presentation, the participant should be able to: Increase knowledge and competence to perform/and or interpret elbow ultrasound examinations, identify ultrasound characteristics associated with joint effusion and bursitis, recognize ultrasound findings associated with tendon and ligament abnormalities, state diagnostic criteria for evaluation of ulnar and radial nerve abnormalities, recognize commonly seen soft tissue masses when evaluating the elbow.



Ultrasound Evaluation of the Wrist and Hand | Randy Moore, DC, RDMS, RMSK | \$99.00

VL-110-WH DVD; 1.0* AMA PRA Category 1 Credits™. Extra \$25.00 fee for CME quiz processing. ISBN# 978-1-934864-65-4 (© 2013, 30 mins). HD quality. Shp. Wt. 1lb.

After viewing this enduring material activity, you should be able to: Increase knowledge and competence to perform ultrasound evaluation of the hand and wrist, outline scan techniques and demonstrate protocols associated with ultrasound evaluation of the hand and wrist and recognize normal sonographic characteristics of the hand and wrist.



Upper Extremity Musculoskeletal Ultrasound Pathology | Randy Moore, DC, RDMS, RMSK | \$99.00

MS-V7-UC DVD; 1.0* AMA PRA Category 1 Credits™. Extra \$25.00 fee for CME processing. ISBN# 978-1-934864-85-2 (©2013, 44 minutes). HD quality. Shp. Wt. 1lb.

After viewing this video presentation, the participant should be able to: Implement techniques and protocols for performing shoulder, elbow, wrist, and hand ultrasound examinations, list the ultrasound imaging criteria for rotator cuff tears, tendinopathy, bursal effusions, tenosynovitis, and subluxation of the biceps tendon, identify the sonographic findings associated with lateral/medial elbow epicondylitis and the common pitfalls encountered during the elbow evaluation recognize ultrasound characteristics associated with ganglion cysts, tenosynovitis, carpal tunnel, UCL abnormalities, and cortical erosions of the wrist, and cite the capabilities and limitations of musculoskeletal ultrasound imaging.



MSK Ultrasound Imaging: Protocol for Upper Extremities | Randy E. Moore, DC, RDMS, RMSK | \$75.00

MS-V1-UJED DVD; 1.0* AMA PRA Category 1 Credits™. Extra \$25.00 fee for CME processing. ISBN# 978-1-932680-92-8 (©2013, reviewed 2013, 56 mins). HD quality. Shp. Wt. 1lb.

After viewing this video presentation, the participant should be able to: Implement techniques and protocols for performing shoulder, elbow, wrist, and hand ultrasound examinations; identify normal anatomy during musculoskeletal ultrasound imaging; cite the capabilities and limitations of musculoskeletal ultrasound imaging. Live demonstration included.



NEW! Ultrasound Evaluation of the Knee and Knee Pathology | Paul Lento, MD and Timothy J. Mazzola, MD, CAQSM, RMSK | \$129.00

VL-MUK2 DVD; 2.0* AMA PRA Category 1 Credits™. Extra \$25.00 fee for CME quiz processing. ISBN# 978-1-940954-31-8 (©2014, 84 mins) Shp. Wt. 1lb.

After viewing this video presentation, the participant should be able to: Increase knowledge and competence to perform and/or interpret MSK ultrasound evaluations of the knee, recognize normal ultrasound characteristics associated with the knee, identify common artifacts and pitfalls, list the typical patterns of knee pathology, apply ultrasound techniques to properly scan and recognize pathology of the knee, identify where to best find knee effusion for aspiration and/or injection, state how to differentiate normal and pathologic conditions using ultrasound and demonstrate sonopalpation skills to help improve diagnostic accuracy of ultrasound of the knee.



NEW! Ultrasound Evaluation of the Ankle and Foot | Timothy J. Mazzola, MD, CAQSM, RMSK | \$99.00

VL-MUFA DVD; 1.5* AMA PRA Category 1 Credits™. Extra \$25.00 fee for CME quiz processing. ISBN# 978-1-940954-25-7 (©2014, 43 mins). HD quality. Shp. Wt. 1lb.

After viewing this video presentation, the participant should be able to: Apply appropriate techniques and protocols for performing foot and ankle static and dynamic ultrasound examinations, identify normal and variant anatomy during musculoskeletal ultrasound imaging of the foot and ankle, recognize common patterns of foot and ankle pathology to optimize the diagnostic and treatment capabilities of musculoskeletal ultrasound of the foot and ankle.



MSK Ultrasound Imaging: Protocol for Lower Extremities | Randy E. Moore, DC, RDMS, RMSK | \$50.00

MS-V2-LEHD DVD; 1.0* AMA PRA Category 1 Credits™. Extra \$25.00 for CME processing. ISBN# 978-1-932680-93-5 (©2013, 39 mins). HD quality. Shp. Wt. 1lb.

After viewing this video presentation, the participant should be able to: Implement techniques and protocols for performing knee, ankle, and foot ultrasound examinations; identify normal anatomy during musculoskeletal ultrasound imaging; list the capabilities and limitations of musculoskeletal ultrasound imaging. Live demonstration included.



NEW! Ultrasound-Guided Injections in Musculoskeletal Medicine | Shane Shapiro, MD, RMSK | \$129.00

VL-MUGI DVD; 2.0* AMA PRA Category 1 Credits™. Extra \$25.00 fee for CME processing. ISBN# 978-1-940954-32-5 (©2015, 108 minutes). HD quality. Shp. Wt. 1lb.

After viewing this video presentation, the participant should be able to: State the difference between the use of ultrasound guidance vs. ultrasound assistance for injections, decide when to use ultrasound to guide musculoskeletal injections, demonstrate how to position and prepare patients for different types of ultrasound-guided injections, distinguish between different techniques of needle visualization using ultrasound, recognize different approaches to joint and soft tissue injections of the musculoskeletal system and incorporate appropriate billing practices for ultrasound-guided injections.



Lower Extremity Musculoskeletal Ultrasound Pathology | Randy Moore, DC, RDMS, RMSK | \$99.00

MS-V8-LC DVD; 1.75* AMA PRA Category 1 Credits™. Extra \$25.00 fee for CME processing. ISBN# 978-1-934864-90-6 (©2013, 84 minutes). HD quality. Shp. Wt. 1lb.

After viewing this video presentation, the participant should be able to: Increase the participant's knowledge and competence to better perform and/or interpret MSK ultrasound examinations, identify the sonographic appearance of commonly seen pathology of the knee, ankle and foot, and hip, and apply diagnostic criteria for ultrasound evaluation of commonly seen MSK pathology of the lower extremity.





COURSE PACK



Advanced Musculoskeletal Ultrasound - \$739.89 (reg. \$813.88)

9.25* AMA PRA Category 1 Credits™

(CP-MA)

NEW! Ultrasound Evaluation of the Elbow Pathology



Jon A. Jacobson, MD, RMSK | \$99.00
VL-MELP DVD; 1.5* AMA PRA Category 1 Credits™. Extra \$25.00 fee for CME quiz processing. ISBN# 978-1-940954-26-4 (©2014, 50 mins) Shp. Wt. 1lb.
Objectives: Increase knowledge and competence to perform/and/or interpret elbow ultrasound examinations, identify ultrasound characteristics associated with joint effusion and bursitis, recognize ultrasound findings associated with tendon and ligament abnormalities, state diagnostic criteria for evaluation of ulnar and radial nerve abnormalities and recognize commonly seen soft tissue masses when evaluating the elbow.



NEW! Advanced MSK Ultrasound-Guided Procedures in



Rehabilitative Medicine | Victor Ibrahim, MD, FAAPMR | \$99.00
VL-113-MCA2 DVD; 1.25* AMA PRA Category 1 Credits™. Extra \$25.00 fee for CME quiz processing. ISBN# 978-1-940954-11-0 (©2014, 53 mins) Shp. Wt. 1lb.
Objectives: Outline new ultrasound guided procedures for ligament and tendon injuries, state the role of ultrasound in nerve entrapment syndromes, and list the benefits and pitfalls of office based ultrasound guided procedures.



NEW! Musculoskeletal Ultrasound Evaluation of the Spine



Randy E. Moore, DC, RDMS, RMSK | \$99.00
VL-MSP2 DVD; 1.5* AMA PRA Category 1 Credits™. Extra \$25.00 fee for CME quiz processing. ISBN# 978-1-940954-11-0 (©2014, 53 mins) Shp. Wt. 1lb.
Objectives: Apply techniques and protocols for performing ultrasound examinations of the spine, identify normal anatomy during musculoskeletal ultrasound imaging of the spine, cite the capabilities and limitations of musculoskeletal ultrasound imaging of the spine, recognize commonly seen pathology of the spine, outline protocols for performing ultrasound-guided intervention techniques.



Ultrasound Evaluation of Groin Pain | Jon A. Jacobson, MD, RMSK | \$99.00



VL-107-GP DVD; 1.0* AMA PRA Category 1 Credits™. Extra \$25.00 fee for CME quiz processing. ISBN# 978-1-934864-57-9 (©2012, 44 mins) Shp. Wt. 1lb.
Objectives: Increase the participant's knowledge and competence to perform and interpret ultrasound examinations of the groin region, state ultrasound characteristics that differentiate indirect and direct inguinal hernia, recognize sonographic findings associated with the diagnosis of sports hernia, and evaluate the iliopsoas muscles and tendons as a potential source of groin pain. Topics: Anatomy, Patient positioning, and scan techniques associated with ultrasound evaluation of the groin region, Ultrasound evaluation of indirect and direct inguinal hernia, Sonographic evaluation of sports hernia, Evaluation of the iliopsoas muscles, tendons, and bursa.



NEW! Musculoskeletal Ultrasound Evaluation of the Hip



Jon A. Jacobson, MD, RMSK | \$99.00
VL-MSUH DVD; 1.5* AMA PRA Category 1 Credits™. Extra \$25.00 fee for CME quiz processing. ISBN# 978-1-940954-46-2 (©2015, 58 mins) Shp. Wt. 1lb.
Objectives: Outline the hip anatomy and recognize ultrasound appearance of the normal hip, identify common hip pathology as seen with ultrasound, state the importance of dynamic ultrasound imaging of the snapping hip and recognize that bursitis is uncommon in a patient with a painful trochanter.



Musculoskeletal Ultrasound: Dynamic Evaluation



Jon A. Jacobson, MD, RMSK | \$129.00
MS-V4-DE DVD; 2.0* AMA PRA Category 1 Credits™. Extra \$25.00 fee for CME quiz processing. ISBN# 978-1-934864-79-1 (©2013, 111 minutes) Shp. Wt. 1lb.
Objectives: List applications of musculoskeletal ultrasound that require dynamic joint movement or positioning maneuvers to evaluate pathology, increase diagnostic confidence during identification of ligament abnormalities and tendon tears, identify tendon dislocation and/or subluxation with internal and external rotation, demonstrate screening maneuvers during impingement testing, differentiate between ulnar nerve dislocation and snapping triceps syndrome, and cite the practical applications of dynamic ultrasound maneuvers during the evaluation of the wrist, hand, and hip.



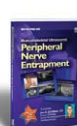
NEW! Ultrasound Evaluation of Wrist and Hand Pathology



Jon A. Jacobson, MD, RMSK | \$99.00
VL-MSWH DVD; 1.0* AMA PRA Category 1 Credits™. Extra \$25.00 for CME processing. ISBN# 978-1-940954-27-1 (©2014, 69 mins) Shp. Wt. 1lb.
Objectives: Increase knowledge and competence to perform and/or interpret MSK ultrasound evaluations of the wrist and hand, recognize normal ultrasound characteristics associated with the hand and wrist, identify common artifacts and pitfalls, list the typical patterns of hand and wrist pathology and apply ultrasound techniques to properly scan and recognize pathology of the wrist and hand.



Musculoskeletal Ultrasound Imaging: Peripheral Nerve



Entrapment | Jon A. Jacobson, MD, RMSK | \$99.00
MS-V5-PNEHD DVD; 1.0* AMA PRA Category 1 Credits™. Extra \$25.00 for CME processing. ISBN# 978-1-932680-85-0 (©2010, Reviewed 2013, 45 mins) Shp. Wt. 1lb.
Objectives: Cite the ultrasound findings of peripheral nerve entrapment; list the ultrasound criteria for carpal tunnel syndrome; identify imaging features of Morton's neuroma. Topics: Peripheral nerve entrapment - Carpal Tunnel Syndrome - Median and ulnar nerve entrapment syndromes - Radial and suprascapular nerve entrapments, labral cyst - Peroneal, tibial and interdigital nerve entrapment syndromes.



The Ultra P.A.S.S. Musculoskeletal Ultrasound Interactive CD and Online Practice Exam are available!

15* AMA PRA Category 1 Credits™ - **CDQU-9-MSK** (©2014) \$74.95 | **OQU-9-MSK** (©2014) \$69.95 - One Year Access for Online Exam

The MSK Exam includes an **Exam Mode** and a **Study Mode**. The **Exam Mode** allows the individual to test their knowledge in a timed setting. Questions and answers are randomized each time a quiz is taken. The **Study Mode** provides feedback regarding the correct answer along with an explanation and reference to augment the learning experience. This comprehensive MSK ultrasound review contains **688** questions relating to upper and lower extremity MSK ultrasound.



COURSE PACK



Ultrasound-Guided Regional Anesthesia - \$267.30 (reg. \$297.00)

4.5* AMA PRA Category 1 Credits™

(CP-AES)

Ultrasound Imaging Fundamentals: The Basics | Lori Green, BA, RT, RDMS, RDCE, RVT | \$99.00



VL-IF DVD; 1.5* AMA PRA Category 1 Credits™. Extra \$25.00 fee for CME quiz processing. ISBN# 978-1-934864-45-6 (©2012, 73 mins.) Shp. Wt. 1lb.
 After viewing this video presentation, the participant should be able to: Cite the interaction of sound with soft-tissue and other mediums, State the relationship of transducer frequency to resolution, penetration and attenuation, List different types of transducers and their selection for different applications, Optimize system parameters to maximize resolution and improve diagnostic accuracy, and recognize commonly seen imaging artifacts.



Intro to Ultrasound-Guided Regional Anesthesia of the Upper & Lower Extremities | John Antonakakis, MD | \$99.00 each



VL-120-U2 DVD; 1.5* AMA PRA Category 1 Credits™. Extra \$25.00 fee for CME quiz processing. ISBN# 978-1-940954-09-7 (©2014, 53 mins.) Shp. Wt. 1lb.
VL-121-L2 DVD; 1.5* AMA PRA Category 1 Credits™. Extra \$25.00 fee for CME quiz processing. ISBN# 978-1-940954-10-3 (©2014, 53 mins.) Shp. Wt. 1lb.
 After viewing either of these video presentations, the participant should be able to: Demonstrate proper transducer manipulation and system optimization to produce diagnostic images, List the advantages of using ultrasound-guided nerve block techniques, Demonstrate imaging techniques for performing ultrasound-guided lower extremities anesthesia for femoral, popliteal and ankle nerve blocks, Identify and distinguish the topographic and cross-sectional brachial plexus anatomy, Increase confidence to incorporate protocols, scan techniques, and interpretation criteria to improve diagnostic/treatment accuracy.

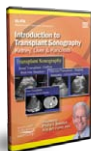


Vascular: Abdominal Doppler

Ultrasound Evaluation of the Abdominal Aorta - Online Video | \$69.00 | \$99.00 *Unlimited Views*

(Also Available on DVD)

NEW! Introduction to Transplant Sonography - DVD | Phil Bendick, PhD, RVT, FSDMS, FSVU | \$129.00

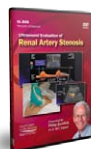


VL-ITS DVD; 2.0* AMA PRA Category 1 Credits™. Extra \$25.00 fee for CME quiz processing. ISBN# 978-1-940954-13-4 (©2014, 88 mins.) Shp. Wt. 1lb.

This enduring material will cover the fundamentals of sonographic evaluation of kidney, liver and pancreatic transplants. Techniques and normal findings as well as commonly seen problems and their management will be presented. Topics: Indications for organ transplants, Scanning techniques & protocols for evaluation of renal, liver, and pancreatic transplants, Sonographic characteristics and diagnostic criteria for evaluation of transplant dysfunction, Technological advancements and future ultrasound applications for evaluation of transplants.



Renal Artery Stenosis - DVD | Phil Bendick, PhD, RVT, FSDMS, FSVU | \$99.00

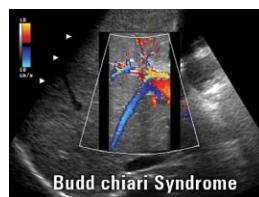


VL-RAS DVD; 1.25* AMA PRA Category 1 Credits™. Extra \$25.00 fee for CME quiz processing. ISBN# 978-1-934864-73-9 (© 2013, 60 minutes) Shp. Wt. 1lb.

At the completion of this DVD or lecture, the participant should be able to: State the clinical indications for performing ultrasound evaluation of renal artery stenosis, recognize renal sonographic anatomy including common anomalies of the renal vascular system, list examination protocols and scan techniques for successful Doppler evaluation of renal artery stenosis using the direct interrogation method, and list examination protocols and scan techniques for successful Doppler evaluation of renal artery stenosis using the indirect interrogation method.



NEW! Mesenteric and Porto-Hepatic Duplex Sonography - Online Video and DVD | Phil Bendick, PhD, RVT, FSDMS, FSVU | \$69.00 | \$99.00 *Unlimited Views*



OV-MPD Webinar; 1.5* AMA PRA Category 1 Credit™. Extra \$25.00 fee for CME quiz processing. (© 2014, 78 mins)

At the completion of this webinar, the participant should be able to: Evaluate the mesenteric arterial circulation for clinically significant chronic ischemia, perform a standard protocol to document hemodynamic changes associated with portal hypertension and evaluate the hepatic veins and inferior vena cava. Topics include: Acute Mesenteric Ischemia Mortality Data, evaluation of Chronic Mesenteric Ischemia, symptoms, normal anatomy, scan protocols, normal & abnormal waveform characteristics, diagnostic criteria, evaluation of median arcuate ligament syndrome, evaluation of splenic artery aneurysm, mesenteric fibromuscular dysplasia, and mesenteric venous thrombosis, portal venous anatomy and normal flow velocity/waveform characteristics, evaluation of portal hypertension; portal vein thrombosis and TIPS procedure.

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

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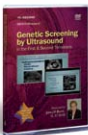


Advanced/Interpretation Women's Health Applications



NEW! Screening the Fetal Heart Outflow Tracts | Jill Beithon, RT (R), RDMS, RDCS, RVT | **\$129.00**

VL-FHSS DVD; **2.0*** AMA PRA Category 1 Credits™. Extra \$35.00 fee for CME quiz processing. ISBN# 978-1-940954-06-6 (© 2014, 104 mins). HD quality. Shp. Wt. 1 lb. This enduring material is designed to increase the participants' knowledge of imaging views and fetal heart anatomy and physiology for the screening examination of the fetal heart during the routine OB second trimester anatomy exam. The lecture will cover an exam protocol including determination of situs, the four-chamber view, left and right outflow tract views and the three vessels and trachea view.



Genetic Screening by Ultrasound | Jane J. K. Burns, AS, RT, RDMS | **\$99.00**

VL-GSUSD DVD; **1.5*** AMA PRA Category 1 Credits™. Extra \$25.00 fee for CME quiz processing. ISBN# 978-1-932680-99-7 (© 2011, 79 minutes). HD quality. Shp. Wt. 1 lb. After viewing this video presentation, the participant should be able to: Implement timelines for screening in the 1st and 2nd Trimesters, cite components of normal and abnormal NT's in the 1st Trimester, identify most common ultrasound "markers" with T-13, 18, 21 and Turners, list pertinent labs utilized for genetic screening and their detection rates, apply protocol used for the systematic evaluation/screen for aneuploidy.



Doppler Evaluation of the Fetal Heart | Jill Beithon, RT (R), RDMS, RDCS, RVT | **\$99.00**

VL-FEDHD DVD; **1.0*** AMA PRA Category 1 Credits™. Extra \$25.00 fee for CME quiz processing. ISBN# 978-1-932680-97-3 (© 2011, reviewed 2014, 53 minutes). HD quality. Shp. Wt. 1 lb. After viewing this video presentation, the participant should be able to: Cite the normal flow through the fetal heart, demonstrate proper Color and Spectral Doppler settings, define the normal appearance of Spectral Doppler waveforms commonly assessed in the fetal heart, and identify fetal cardiac anomalies which can be better evaluated with use of Color and Spectral Doppler. Topics include: Anatomy & Electrophysiology of the fetal heart, Color & Spectral Doppler, Valvular Regurgitation, Mechanical PR Interval, TEI Index.



Obstetrical Case Studies

Clinical Obstetrical Ultrasound Case Studies: Volumes 1, 2, 3, and 4 Compiled by William J. Ott, MD, FACOG

An excellent review and self-assessment tool for OB pathology. This educational program is ideal for the physician or sonographer who has a desire to either assess interpretation skill level, prepare for the ultrasound registry examination, or obtain required CME credit. The CD-ROM program provides a review of normal fetal anatomy and routine OB measurements using ultrasound images, color diagrams, and real-time video clips. Assessment of ones ability to recognize commonly seen pathology and accurately interpret examinations is achieved by reviewing case studies. The case studies provide a brief history/physical, and multiple ultrasound images and diagrams. At any time the participant can click-on the image for anatomy labels to appear. Detailed descriptions of the fetal abnormality, associated disorders, and a final interpretation are provided. Several OB charts and graphs are available as a reference resource. In addition, on each CD an interactive quiz can be taken to identify areas that may require further study. **Extra \$50.00 CME processing fee at time of quiz submission.



Clinical OB Ultrasound Case Studies: Vol. 1 CD | William J. Ott, MD, FACOG | Site License†: **\$499.00** | Single Users: **\$99.00**

OB-CD-01 CD; **5.0*** AMA PRA Category 1 Credits™. ISBN# 978-1-931999-00-7 (©2001, reviewed 2011) Shp. Wt. 1 lb.

Twenty case studies plus obstetrical ultrasound review, including: general OB anatomy, OB measurements, fetal central nervous system, evaluation of the spine, basic fetal heart evaluation, normal fetal abdomen and evaluation of the cervix.

Compatible with Windows XP, Vista (32-bit) and 7 (32-bit). Not compatible with Macintosh computers. Due to the nature of its content, this CME product is non-refundable.



Clinical Obstetrical Ultrasound Case Studies: Vol. 2 CD | William J. Ott, MD, FACOG | Site License†: **\$499.00** | Single Users: **\$99.00**

OB-CD-02 CD; **4.0*** AMA PRA Category 1 Credits™. ISBN# 978-1-931999-01-4 (©2001, reviewed 2011) Shp. Wt. 1 lb.

Fifteen case studies plus narrated interactive mini lectures in Twin Complications and Intrauterine Growth Restriction. Also discussed, review of anatomical scan planes and basic ultrasound anatomy.

Compatible with Windows XP, Vista (32-bit) and 7 (32-bit). Not compatible with Macintosh computers. Due to the nature of its content, this CME product is non-refundable.



Clinical Obstetrical Ultrasound Case Studies: Vol. 3 CD | William J. Ott, MD, FACOG | Site License†: **\$499.00** | Single Users: **\$99.00**

OB-CD-03 CD; **6.0*** AMA PRA Category 1 Credits™. ISBN# 978-1-931999-82-3 (©2003, reviewed 2011) Shp. Wt. 1 lb.

Twenty case studies plus narrated interactive mini lectures in: biophysical tests for fetal evaluation; Doppler velocity flow studies; other uses of cerebral artery velocity flow; obstetrical ultrasound findings and fetal chromosomal abnormalities: "Refining the Association in Low-Risk Patients;" graphs and charts.

Compatible with Windows XP, Vista (32-bit) and 7 (32-bit). Not compatible with Macintosh computers. Due to the nature of its content, this CME product is non-refundable.

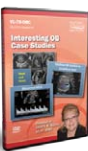


Clinical Obstetrical Ultrasound Case Studies: Vol. 4 CD | William J. Ott, MD, FACOG | Site License†: **\$599.00** | Single Users: **\$150.00**

OB-CD-04 CD; **4.0*** AMA PRA Category 1 Credits™. ISBN# 978-1-934864-31-9 (©2011, reviewed 2014) Shp. Wt. 1 lb.

Eighteen case studies featuring rare and unusual case examples. Categories include: Excess fluid; The unexpected; Fetal heart; and Other. Also includes an overview of the normal fetal cardiac ultrasound anatomy and a PowerPoint presentation entitled Accuracy of Fetal Echocardiography.

Compatible with Windows XP, Vista (32-bit) and 7 (32-bit). Not compatible with Macintosh computers. Due to the nature of its content, this CME product is non-refundable.



NEW! Interesting Obstetric Case Studies - DVD | Jane J. K. Burns, AS, RT, RDMS | **\$99.00**

VL-78-OB DVD; **1.5*** AMA PRA Category 1 Credits™. Extra \$25.00 fee for CME quiz processing. ISBN# 978-1-940954-01-1 (© 2013, 59 mins). HD quality. Shp. Wt. 1 lb.

After viewing this enduring material, the participant should be able to: List Ultrasound techniques helpful in the evaluation of fetal abdominal and cardiac lesions. Identify different types of Twin gestations. List landmarks used for the proper identification and spectral Doppler analysis of fetal twin gestations.



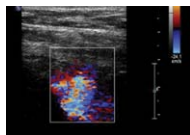
§ With extra CME processing fee. † What is a "site license?" See **Terms and Fine Print** on page 40 or call 800.619.1900 for more information.

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



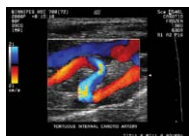
Advanced Vascular Applications - Online Videos & Courses

Ultrasound Evaluation of Dialysis Access Grafts and Fistulas Online Video | \$69.00

Robert Atnip, MD, RVT, RPVI | **OV-DAGF** Webinar 1.0 *AMA PRA Category 1 Credits™*. Extra \$50.00 fee for CME processing.**DVD also available for \$99.00 • VL-123-DG2** 1.0 *AMA PRA Category 1 Credits™*. Extra \$25.00 fee for CME processing. ISBN# 978-1-934684-59-3 (© 2012, 29 mins.) Shp. Wt. 1lb.

After viewing this presentation, the participant should be able to: Describe the arterial and venous anatomy of the upper extremities; list the advantages of AV fistulas over grafts and venous catheters; describe the common complications of dialysis access procedures; name several sonographic criteria for stenosis and dysfunction of AV fistulas/grafts.

Introduction to Peripheral Vascular Ultrasound - Online Course | \$575.00

Rob Daigle, BA, RVT, FSVU • Lori Green, BA, RT, RDMS, RDCS, RVT | **OC-PVU-101** 11.50* *AMA PRA Category 1 Credit(s)™* No processing fees for online classrooms. (© 2009)This course is designed to provide a comprehensive introduction to peripheral vascular sonography and a strong foundation to perform and/or interpret vascular ultrasound examinations. The participant will identify the essentials for establishing scan protocols, and experienced faculty will guide you through upper and lower extremity anatomy and vascular Doppler/Color flow characteristics. This self-directed course is designed in a modular format and includes recommended reading assignments, online video lectures, case presentations, and related online interactive activities. Visit www.gcus.com for more info. **Recommended Reading: Techniques in NonInvasive Vascular Diagnosis** | by Robert J. Daigle, BA, RVT, FSVU (See page 39)

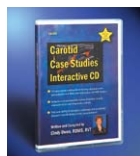
New! Introduction to Transcranial Doppler Ultrasound - Online Course | \$350.00

Donalee Davis, CNRN & Lori Green, BA, RT, RDCS, RDMS, RVT | **OC-TCD-101** Webinar; 7.0* *AMA PRA Category 1 Credits™*. No processing fees for online classrooms. (© 2013)

This course is designed to provide a comprehensive introduction and review of Transcranial Doppler ultrasound. This enduring material is designed to provide a comprehensive review of how to perform and/or interpret TCD and TCI examinations. This program will explore neuro-anatomy, Doppler waveform characteristics (normal/abnormal), scan techniques, diagnostic criteria, protocols specific to TCD/TCI exams, and clinical applications for TCD/TCI which are taught in accordance with AIUM and IAC guidelines.

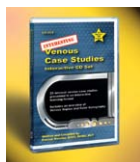
This course is presented in six (6) modules and includes recommended reading assignments, online video lectures, case presentations, and post-activity quizzes. **Recommended Reading: A Practical Guide To Transcranial Doppler Examinations** | by Mira L. Katz & Andrei V. Alexandrov (See page 39)

Vascular Case Studies - Interpretation - Assessment



Carotid Case Studies Interactive CD: 14 Case Studies | Written/compiled by Cindy Owen, RT, RDMS, RVT

This is designed for those who have a desire to assess their level of knowledge in recognizing commonly seen carotid disease and accurately interpreting carotid duplex/color examinations. 14 carotid case studies with a brief history and physical examination are provided to assess one's ability to recognize commonly seen pathology and accurately interpret examinations. After viewing this video presentation, the participant should be able to: Demonstrate the application of Doppler criteria to internal carotid artery stenosis; characterize various types of plaque; list diagnostic parameters for evaluation of common carotid, external carotid, and innominate artery stenosis; identify normal and abnormal spectral Doppler waveform characteristics; and state suggestions for avoiding diagnosis pitfalls.

CD-CCS Carotid Case Studies Interactive CD; ISBN# 978-1-932680-25-6 (© 2004, rev. 2012) Shp. Wt. 1 lb. **\$150.00** (or Site License† \$599.00) 5.0* *AMA PRA Category 1 Credits™*, requires additional \$50.00 CME fee at time of quiz submission. †What is a "site license?" See Terms & Fine Print on page 40. Compatible with Windows XP, Vista (32-bit) and 7 (32-bit). Not compatible with Macintosh computers. Due to the nature of its content, this CME product is non-refundable.

Interesting Venous Case Studies Interactive 2 CD Set: 23 Cases! by Patrick Washko, BSRT, RDMS, RVT

After viewing this video presentation, the participant should be able to: Identify normal venous anatomy and common anatomical variants; recognize normal versus abnormal venous Doppler waveform characteristics; cite the use and misuse of D-Dimer assay; list the risk factors for DVT; state pre-test probability for DVT; recognize incidental findings while performing venous duplex. Plus, this includes an overview of venous duplex/color sonography!

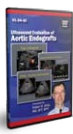
CD-VCS ISBN# 978-1-932680-68-3 (© 2006, rev. 2012) Shp. Wt. 1 lb. **\$165.00** (or Site License† \$599.00) 10.0* *AMA PRA Category 1 Credits™* (Additional \$50.00 CME processing fee at time of quiz submission) †See Terms & Fine Print on page 40. Compatible with Windows XP, Vista (32-bit) and 7 (32-bit). Not compatible with Macintosh computers. Due to the nature of its content, this CME product is non-refundable.

Validating Stenosis Criteria for Carotid/Duplex Ultrasound by Phil Bendick, PhD, RVT, FSDMS - DVD

After viewing this video presentation, the participant should be able to: Cite the rationale for development of the SRU Consensus criteria, develop institution-specific carotid artery stenosis criteria, list the techniques that can be used to evaluate the reliability of carotid artery stenosis criteria, plan and implement a quality assurance program to track the efficacy of carotid artery stenosis criteria. Also review topics: measurement standards pre- and post-1995, sensitivity vs. Positive Predictive Value, and more.

VL-SCCDUHD Stenosis Criteria for Carotid Duplex U/S; ISBN# 978-1-932680-96-6 (© 2011, 54 min.) Shp. Wt. 1 lb. **\$99.00** 1.0 *AMA PRA Category 1 Credits™* (Additional \$25.00 CME fee at time of quiz submission.) †Terms & Fine Print on page 40.

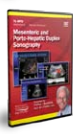
Abdominal / Vascular



NEW! Ultrasound Evaluation of Aortic Endografts | Robert G. Atnip, MD, RVT, RPVI | \$99.00

VL-34-AE DVD; 1.25* *AMA PRA Category 1 Credits™* Extra \$25.00 fee for CME processing. ISBN: 978-1-940954-03-5 (© 2014, 51 mins.) Shp. Wt. 1lb.

This enduring material is designed to review endovascular aneurysm repair (EVAR) and the role of duplex/color detection and post-op surveillance protocols and diagnostic criteria. The presentation will address the methods, advantages, and limitations of color Doppler ultrasound for the evaluation of patients with endovascular aortic grafts.



NEW! Mesenteric and Porto-Hepatic Duplex Sonography | Phillip J. Bendick, PhD, RVT, FSDMS, FSVU | \$99.00

VL-MPD DVD; 1.5* *AMA PRA Category 1 Credits™* Extra \$25.00 fee for CME processing. ISBN: 978-1-940954-05-9 (© 2014, 78 mins.) Shp. Wt. 1lb.

This enduring material will focus on the duplex ultrasound evaluation of the principle mesenteric vessels. One focus will be on the associated symptom complex and the role of the celiac and superior mesenteric arteries in chronic mesenteric ischemia. A second focus will be the porto-hepatic venous system and the hemodynamic responses to portal hypertension.

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



Advanced/Cardiac Case Studies Interactive DVDs

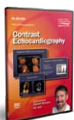
The Cardiac Case Studies DVD series is designed for the medical professional with a minimum of six months experience performing and/or interpreting cardiac ultrasound examinations. Each DVD features assorted case studies beginning with the patient clinical history. The participant will review each case study through different examination views and document the findings on an interpretation worksheet (available for download). At the completion of each case study a summary of the diagnostic findings is provided along with a brief overview of the specific cardiac pathology as a reference. The DVD series is an ideal resource for enhancing interpretation skills and to improve recognition of cardiac disease and an excellent registry preparation resource and complement the P.A.S.S. Registry Review Package.



Ultrasound Evaluation of Heart Failure & Left Ventricular Dyssynchrony DVD Presented By: Daniel Bourque, MS, RCS | \$99.00

VL-57-HFD DVD; ISBN# 978-1-934864-95-1 (© 2013, 76 minutes) Shp. Wt. 1lb. 1.5* *AMA PMA Category 1 Credits™* (Requires extra \$25.00 CME processing fee at time of quiz submission)

After viewing this DVD, the participant should be able to: State origins and impacts dyssynchrony can have on heart failure, outline assessment techniques to determine dyssynchrony, differentiate inter-ventricular dyssynchrony, and recognize dyssynchrony patterns.



Contrast Echocardiography DVD Presented By: Daniel Bourque, MS, RCS | \$99.00

VL-51-CEC DVD; ISBN# 978-1-934864-77-7 (© 2013, 76 minutes) Shp. Wt. 1lb. 1.5* *AMA PMA Category 1 Credits™* (Requires extra \$25.00 CME processing fee at time of quiz submission)

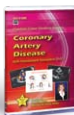
After viewing this DVD, the participant should be able to: List appropriate indications for use of contrast, outline administration techniques and instrument settings when contrast is utilized, and interpret contrast acquired information. Lecture topics include: History of echocardiography; current contrast agents available for use; indications and administration for the use of contrast agents; physics involved with the use of contrast agents; future applications and technologies associated with contrast agents.



Volume 1: Valvular Heart Disease DVD (10 case studies) Presented By: Michelle Bierig, MPH, BSRT, RDCS, RDMS, FASE | \$129.00

VL-1-VHD DVD; ISBN# 978-1-932680-46-1 (© 2005, reviewed 2012) Shp. Wt. 1 lb. 6.0* *AMA PMA Category 1 Credits™* (Requires extra \$50.00 CME processing fee at time of quiz submission)

After viewing this DVD, the participant should be able to: Identify 2D characteristics associated with commonly seen valvular heart disease; recognize color and spectral Doppler characteristics associated with valvular heart disease; apply quantitative measurements with 2D, color and spectral Doppler findings; correlate the clinical history with echocardiography findings; identify areas of weakness (concomitant pathology) that may require further study. Due to the nature of its content, this CME product is non-refundable.



Volume 2: Coronary Artery Disease DVD (10 case studies) Presented By: Michelle Bierig, MPH, BSRT, RDCS, RDMS, FASE | \$129.00

VL-2-CAD DVD; ISBN# 978-1-932680-50-8 (© 2006, reviewed 2012) Shp. Wt. 1 lb. 5.0* *AMA PMA Category 1 Credits™* (Requires extra \$50.00 CME processing fee at time of quiz submission)

After viewing this DVD, the participant should be able to: List the various left ventricular wall segments and outline the distribution of coronary artery flow; cite and classify wall motion abnormalities; recognize echocardiography characteristics of complications associated with coronary artery disease; correlate the clinical history with cardiac ultrasound findings; identify areas of weakness (concomitant pathology) that may require further study. Due to the nature of its content, this CME product is non-refundable.

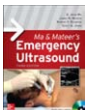


Echocardiographic Evaluation of Diastolic Function DVD Presented By: Dennis Atherton, BSBA, RDCS, RCS, RRT, FASE | \$99.00

VL-EEDF DVD - ISBN# 978-1-940954-43-1 (© 2015, 43 minutes) Shp. Wt. 1lb. 1.0* *AMA PMA Category 1 Credits™* (Requires extra \$25.00 CME processing fee at time of quiz submission)

After viewing this DVD, the participant should be able to: State the importance of the echocardiographic evaluation of diastolic function, demonstrate an understanding of the importance of diastology, list technical potential pitfalls in diastolic echo acquisition, demonstrate how to measure diastolic function, identify the degree of diastolic dysfunction during case review and demonstrate the use of contrast agents for left ventricular assessment, Doppler enhancement and to document LV structural abnormalities.

Reference Books



NEW! Emergency Ultrasound, 3rd Edition

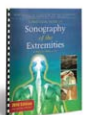
O. John Ma, MD | James R. Mateer, MD | Robert F. Reardon, MD | Scott A. Joing, MD | **\$159.00**

EU3 Hard Cover book; (© 2013 edition, 720 pages) Shp. Wt. 4 lbs.
(See pg. 23 for description)



NEW! Pediatric Emergency & Critical Care and Ultrasound, 1st Ed. Stephanie J. Doniger MD, RDMS, FAAP, FACEP | \$135.00

PECU1 Hardback; (© 2014 edition) Shp. Wt. 3 lbs.



A Practical Guide to Sonography of the Extremities - 2010 Ed.

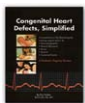
Randy E. Moore, DC, RDMS, RMSK | **\$80.00**

MSK-10 Spiral bound book; (© 2007, 2010 edition) 114 pages, Shp. Wt. 2 lbs.

ESPAÑOL! Guía Práctica de Ecografía de las Extremidades — Edición 2010

Randy E. Moore, DC, RDMS, RMSK | **\$80.00**

MSKSP-10 Encuadernado espiral; (© 2007, edición 2010, 114 páginas) Peso aproximado. 2 libras.



Congenital Heart Defects, Simplified

Ken Heiden, RDCS (AE, PE), RVT | **\$99.00**

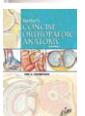
CHDS Spiral bound book; ISBN# 978-0-9822709-0-5 (© 2009, 97 pages) Shp. Wt. 2 lbs.



A Practical Handbook to Ultrasound Guided Injections

Victor M. Ibrahim, MD & Randy E. Moore, DC, RDMS, RMSK | **\$80.00**

UGIM-12 Spiral Bound book; (© 2012 edition, 56 pages) Shp. Wt. 1 lbs.



Netter's Concise Orthopaedic Anatomy

Jon Thompson, MD | **\$57.95**

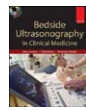
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Bedside Ultrasound – Level 1

Peter Steinmetz, MD | **\$62.95**

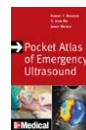
BUL1 • ISBN# 978-0-9919566-0-9 (©2013; 156 pgs) Shp. Wt. 1 lbs.



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Alexander B. Levitov, MD, FCCM, RDCS | **\$93.95**

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James R. Mateer, MD, RDMS | Robert F. Reardon, MD, RDMS | O. John Ma, MD | **\$70.00**

PAEU Soft Cover book; (© 2011 edition) Shp. Wt. 1 lbs.
(See pg. 23 for description)



Techniques in Noninvasive Vascular Diagnosis - 4th Ed.

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TNVDI-4 Spiral Bound book; ISBN# 978-09899329-1-2 (© 2014 edition) Shp. Wt. 1 lbs.



Critical Care Ultrasonography Hardcover Book, 1st Ed.

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The Pediatric Echocardiographer's Pocket Ref. 3rd Edition

Terry Reynolds, BS, RDCS, RCS | **\$79.95**

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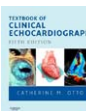


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President,
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Brian Schenker,
MBA, RDMS, RVT
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James Mateer,
MD, RDMS, Staff ER
Physician, Waukesha
Memorial Hospital,
Waukesha, WI
Clinical Professor,
Department of
Emergency, Med.
College, Wisconsin



Jeffrey Strakowski,
MD
Physical Medicine
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Columbus, OH



Andreas Dewitz,
MD, RDMS
Assoc. Prof. of
Emergency Medicine,
Vice Chair for
Ultrasound Ed.,
Dept. of Emerg. Med.,
Boston Univ. School of
Medicine, Boston Med.
Cntr., Boston, MA



**Christie Hill
Jordan, BS, RDCS,
RCS, RCIS, FASE**
Cardiovascular
Technology Program
Faculty Director,
Florida State College
at Jacksonville
Jacksonville, FL



Dennis Atherton
BSBA, RDCS, RCS,
RRT, FASE
Director of Non-
Invasive Cardiology
Services,
Maine Medical Center
Portland, ME



Robert G. Atnip,
MD, RVT, RPVI
Senior Vascular
Surgeon, Medical
Director, Vascular
Laboratory, Penn State
Heart and Vascular
Institute, Hershey, PA
Professor of Surgery,
Penn State University,
Hershey, PA



Dennis Bandyk,
MD
Professor of Surgery
UC San Diego
Director of Vascular
Surgery Division
San Diego, CA



Ahmed Al-Malt,
MD
Director,
Fetal Diagnostic
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Orlando, FL



Phil Bendick,
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AS, RT, RDMS
Senior Perinatal
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Houston, Texas



Victor Ibrahim,
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Founder/Director,
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Rob Daigle,
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President, Summer
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Ultrasound
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Paul Lentz,
MD
Physical Medicine,
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Pradeep Albert, MD
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Clinical Radiology, New
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J. Christian Fox,
MD, RDMS
Associate Clinical Prof.
of Emerg. Medicine,
Dir. of Emergency
Ultrasound, Dept. of
Emergency Medicine,
Univ. of California,
Irvine Medical Center,
Orange, CA



Daniel Bourque,
MS, RCS, FASE
Orlando Regional
Medical
Orlando, FL



Shane Shapiro,
MD, RMSK
Sports &
Orthopedic
Medicine
Mayo Medical
School
Assistant Professor
Jacksonville, Florida



Charlotte Derr,
MD, RDMS, FACEP
Associate Program
Dir., Emergency
Ultrasound Dir.,
Assistant Professor,
University of South
Florida, Emergency
Medicine Residency
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Jon A. Jacobson,
MD, RMSK
Prof of Radiology, Dir,
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Stephanie Doniger,
MD, RDMS, FAAP,
FACEP
New York Methodist
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Co-director Pediatric
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Fellowship Director,
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Brian Shiple, DO,
CAQSM, RMSK
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**Alexander B.
Levitov, MD, FCCP,
FCCM, RDCS**
Eastern Virginia
Medical School,
Dept. of Internal
Medicine,
Division of Pulmonary
and Critical Care
Medicine, Norfolk, VA



Bret Nelson,
MD, RDMS, FACEP
Attending Physician
Director of Emergency
Ultrasound
Mount Sinai Hospital,
New York, NY



Salvatore LaRusso,
Ed. RDMS, RT(R)
Senior Instructor
Radiology PennState
College of Medicine
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Randy Moore,
DC, RDMS, RMSK
Ultrasound
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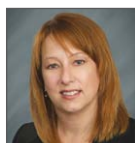
Donalee Davis,
CNRN
Ultrasound
Consultant
Lower Burrell, PA



**Marsha M.
Neumyer,**
BS, RVT, FSDMS,
FSVU, FAIUM
CEO, International
Director, Vascular
Diagnostic Educational
Services and Vascular
Resource Associates
Harrisburg, PA



Richie Palma, BS,
RDCS, APS, FASE
Director and Clinical
Coordinator
Hoffman Heart
Institute, School of
Cardiac Ultrasound
St. Francis Hospital
and Medical Center
Hartford, CT



Jill Beithon, RT (R)
RDMS, RDCS, RVT
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**William B.
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Imaging, Inc.
Venice, FL



Jay Smith,
MD, FACSM, RMSK
Prof. of Physical
Medicine & Rehab.,
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MD, RDMS,
Arlington, MA
- James Mateer
MD, RDMS
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Directly across the street from GCUS. This 39-room boutique resort is directly on the beach. It is family owned and operated. Amenities include: All rooms have full kitchens, large heated pool, high speed Internet, free wi-fi, mini-golf. Clean and quiet. Walking distance.

5. Bayview Waterfront Resort 4321 Gulf Blvd.

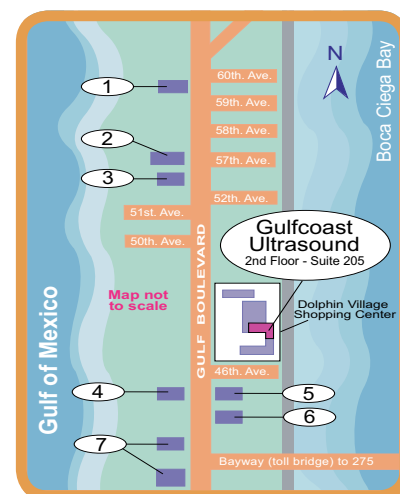
Small, family-owned boutique resort in walking distance to GCUS. This property is on the bayside waterway, not the beach. Full Kitchens, Private Balconies Available, Fishing Pier. Clean and Quiet. Can use all amenities of Plaza Beach Resort. Walking distance.

6. Bay Palms Waterfront Resort 4237 Gulf Blvd.

Featuring waterfront, heated pool, 1200 sq. foot waterfront pier, full kitchens, suites, great fishing. Watch manatees and dolphins, beach access just across the street. Great rates, full use of Bayview Plaza and Plaza Beach Resort. FREE happy hour! Walking distance.

7. Loews Don CeSar Beach Resort/Spa & Beach Club Suites 4300 Gulf Blvd.

Historic and world-famous, the Loews Don CeSar Hotel is St. Pete Beach's only 4 Diamond, beachfront hotel offering pure indulgence with 277 luxurious rooms including 40 suites, most with spectacular water views. New American Cuisine in a fine dining atmosphere at The Maritana Grille or a casual meal at the Sea Porch. Spa Oceana is an oceanfront spa getaway featuring 11,000 sq. feet of spa facilities including salon and deluxe couples rooms for a large variety of treatments. Transportation recommended.



Please call Gulfcoast Ultrasound Institute at 800.619.1900 and your CME Coordinator will be happy to arrange lodging for your needs!

Exactly where is Gulfcoast Ultrasound Institute located?

Gulfcoast Ultrasound Institute is conveniently located about 30 minutes from Tampa International Airport. Our proximity on the west coast of Central Florida makes it an ideal destination to combine leisure activities with your professional education.

BEACH AREA HOTELS • RESORTS

For your convenience, we can book your hotel/resort lodging at a greater discount and can arrange for room at excellent beach front properties. Although there are a number of other hotels in the area, the staff here at GCUS have personally inspected these listed sites and can recommend them. Please call us in advance for availability and rates. Since we're located in a resort area, demand for rooms can be high during certain times of the year. Please call Gulfcoast Ultrasound Institute at 1.800.619.1900 and your CME Coordinator will be happy to arrange lodging for your needs!

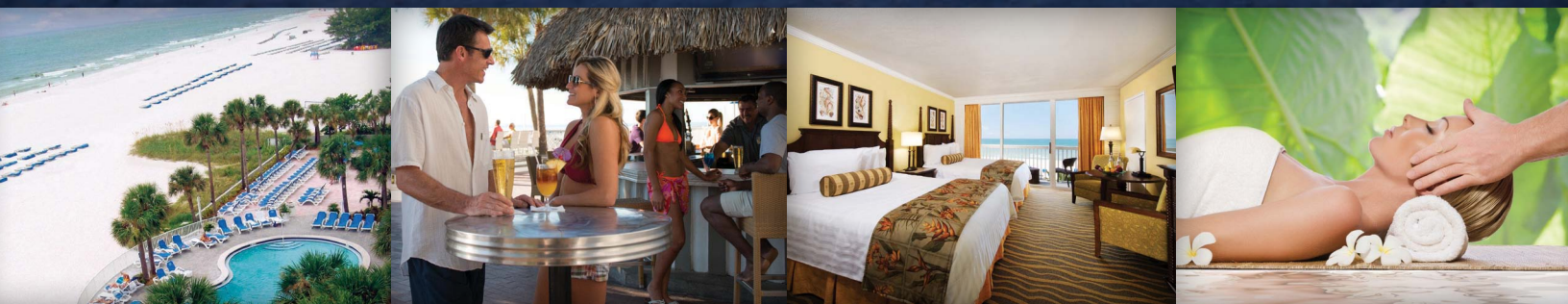
Disclaimer

The content of our seminars and enduring materials reflect current clinical diagnostic methods taught at Gulfcoast Ultrasound Institute, Inc. and is meant to provide an introduction to ultrasound imaging. While offering CME credit hours, this activity is not intended to provide extensive training or certification for performance of, or interpretation of, ultrasound examinations. We recommend working under supervised conditions until an acceptable level of proficiency has been achieved. Medicine is an ever-changing field. Standard safety precautions must be followed, but as new research and clinical experience broadens the knowledge base, changes in treatment, techniques, and drug therapy become necessary and important. Participants are advised to check the latest product information provided by the manufacturer of each imaging system to verify current recommendations for use. Information within these CME activities are not provided as medical advice; does not establish a doctor/patient or other relationship; and is not intended nor should it be assumed to guarantee a specific result. Participants assume full responsibility for any use of the information contained in the seminars or the enduring materials, and any claims, loss, or damages that may result.

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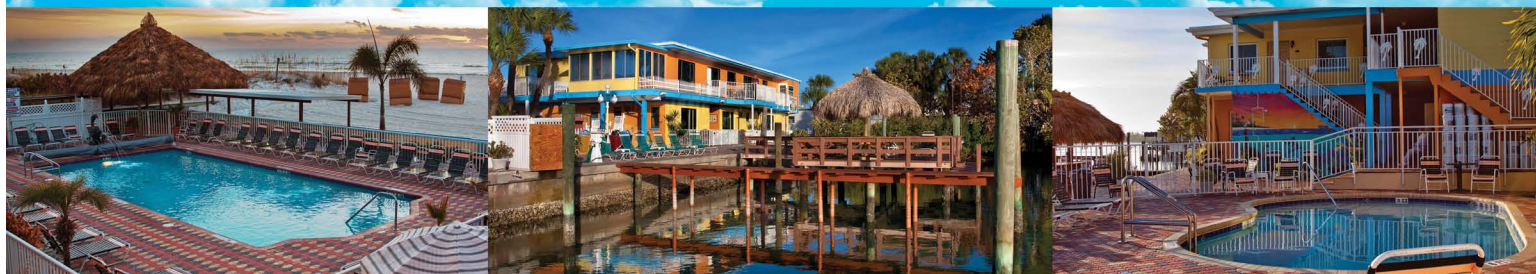


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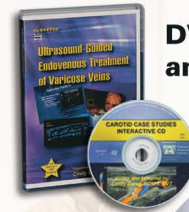
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(See Page 3)

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