

AMERICAN INSTITUTE OF ULTRASOUND IN MEDICINE

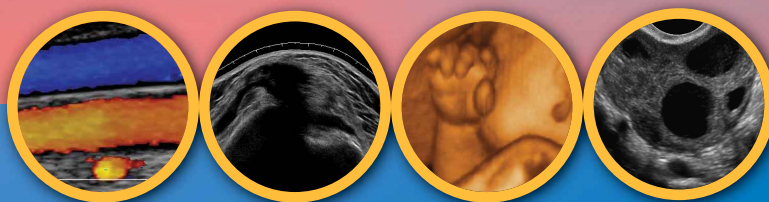
2014 Annual Convention and Preconvention Program

March 29–April 2, 2014

Caesars Palace • Las Vegas, Nevada



*Bringing together the entire
medical ultrasound community*



Preliminary Program

Earn up to **41.25 AMA PRA Category 1 Credits™**
(accepted by the ARDMS) or ARRT Category A Credits over 5 days!

www.aium.org



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How to Register

To register for the 2014 AIUM Annual Convention and Preconvention Program, follow one of these easy steps:

- Register online at www.aium.org
- Mail the registration form on the last page of this program to:

American Institute of
Ultrasound in Medicine
2014 Annual Convention
14750 Sweitzer Ln, Suite 100
Laurel, MD 20707-5906 USA
- Fax the registration form on the last page of this program to
301-498-4450

Questions?

Contact the AIUM's Professional Development Department at
conv_edu@aium.org •
800-638-5352 • 301-498-4100

*“Always a great meeting, topics, people, warm atmosphere,
food during lunch and break times—excellent. . .
the ONLY yearly convention I never want to miss!”*

—2013 AIUM Annual Convention Attendee

Preliminary Schedule at a Glance

Saturday, March 29, 2014

6:30 AM–5:00 PM	Preconvention Program Registration Open
7:30 AM–5:00 PM	Preconvention Program
5:00 PM–6:30 PM	Presidential Reception for New Members and Leadership <i>(by invitation only)</i>

Sunday, March 30, 2014

7:00 AM–4:00 PM	Convention Registration Open
7:00 AM–11:00 AM	Coffee Service in Registration Area/Exhibit Hall
8:00 AM–9:30 AM	Special Interest Sessions
9:45 AM–11:15 AM	Opening/Awards Session/ AIUM Business Meeting
11:15 AM–1:00 PM	Grand Opening Luncheon in the Exhibit Hall
1:00 PM–3:00 PM	Special Interest Sessions Hands-on Special Interest Session Community Meeting
3:15 PM–5:00 PM	Special Interest Sessions Hands-on Special Interest Session Community Meeting

Monday, March 31, 2014

6:00 AM–4:00 PM	Convention Registration Open
6:00 AM–11:00 AM	Coffee Service in Registration Area/Exhibit Hall
7:00 AM–8:00 AM	Just Images and Comprehensive Refresher Sessions
8:15 AM–10:15 AM	Special Interest Sessions Hands-on Special Interest Session
10:15 AM–11:00 AM	Refreshment Break in the Exhibit Hall Community Meeting
11:00 AM–12:30 PM	Scientific Sessions
12:30 PM–1:30 PM	Lunch in the Exhibit Hall
1:30 PM–3:30 PM	Special Interest Sessions Hands-on Special Interest Session
3:30 PM–4:00 PM	Refreshment Break in the Exhibit Hall Community Meetings
4:00 PM–5:30 PM	Film Panel Sessions Special Interest Sessions Scientific Sessions Community Meetings
5:30 PM–6:30 PM	Community Meetings

Tuesday, April 1, 2014

6:00 AM–4:00 PM	Convention Registration Open
6:00 AM–11:00 AM	Coffee Service in Registration Area/Exhibit Hall
7:00 AM–8:00 AM	Just Images and Comprehensive Refresher Sessions
8:15 AM–10:15 AM	Special Interest Sessions Hands-on Special Interest Session Three- and Four-Dimensional Volume Data Set Manipulation: Gynecology
10:15 AM–11:00 AM	Refreshment Break in the Exhibit Hall Community Meeting
10:30 AM–12:30 PM	Accreditation Tutorial Three- and Four-Dimensional Volume Data Set Manipulation: Obstetrics
11:00 AM–12:30 PM	Special Interest Session Scientific Sessions
12:30 PM–1:30 PM	Lunch in the Exhibit Hall
1:00 PM–3:00 PM	Three- and Four-Dimensional Volume Data Set Manipulation: Obstetrics Hands-on Special Interest Session
1:30 PM–3:15 PM	Special Interest Sessions
1:30 PM–3:30 PM	Refreshment Break in the Exhibit Hall
3:30 PM–4:00 PM	Accreditation Tutorial
3:30 PM–5:30 PM	Three- and Four-Dimensional Volume Data Set Manipulation: Fetal Echocardiography Hands-on Special Interest Session
3:45 PM–5:30 PM	Film Panel Sessions
4:00 PM–5:30 PM	Special Interest Sessions Scientific Sessions Community Meeting

Wednesday, April 2, 2014

6:00 AM–4:00 PM	Convention Registration Open
6:00 AM–11:00 AM	Coffee Service in Registration Area/Exhibit Hall
7:00 AM–8:00 AM	Just Images and Comprehensive Refresher Sessions
8:15 AM–10:15 AM	Special Interest Sessions Community Meeting
10:15 AM–11:00 AM	Refreshment Break in the Exhibit Hall Community Meeting
11:00 AM–12:30 PM	Scientific Sessions
12:30 PM–1:30 PM	Lunch in the Exhibit Hall
1:30 PM–3:30 PM	Just Images Session Special Interest Sessions
3:30 PM–4:00 PM	Refreshment Break in the Exhibit Hall
4:00 PM–5:30 PM	Film Panel Sessions Scientific Sessions

Look What's Included With Your Convention Registration This Year

The Annual Convention Committee continually strives to make your convention experience better than ever. This year, you'll find exceptional ultrasound educational programming, more delicious food and refreshment breaks, unparalleled opportunities to meet colleagues who are also enthusiastic about medical ultrasound, plus so much more!

Your Registration Includes:

Learning

- Attendance to any of the 130+ educational sessions from 18 different interest tracks, with courses specifically designed for beginners through advanced.
- The opportunity to earn up to 34.25 CME credits in 4 days.
- The chance to view more than 50 e-posters describing cutting-edge research. You told us you wanted easier access to the e-posters, so we've moved them into the Exhibit Hall.
- Matching wits with your peers by testing your knowledge with Cases of the Day. Don't forget to pick up your ribbon when you make the correct diagnosis.
- Your personal copy of the 2014 *Official Proceedings*, which includes abstracts from more than 500 professionals who will be presenting courses, discussing their research, or who submitted e-poster presentations. As a convention attendee, you will also have free access to the electronic version of the *Official Proceedings*.
- Attendance to the practice accreditation tutorial to learn how easy and how important it is to have your practice accredited.

Exhibits

- Visiting more than 50 exhibitors in the Exhibit Hall to learn the latest in ultrasound technology and services.
- Observing live scanning in the Exhibit Hall—one of the best ways to learn proper scanning techniques.

Food and Refreshments

- Fresh, hot coffee and tea in the AIUM registration area each morning.
- A delicious lunch daily in the Exhibit Hall.
- Six refreshment breaks with beverages and mouth-watering snacks.

Networking

- Meeting with colleagues in your specialty by attending 1 or more of the 18 Community and Interest Group meetings and the opportunity to help plan the 2015 convention.
- Mingling with ultrasound luminaries who present the Scientific Sessions.

Extra Conveniences

- The 2014 convention app creates a personalized schedule and more so you get the most out of the convention.
- An insulated tote bag to carry all the brochures you collect, which you can use for years to come.
- Free Wi-Fi in the Exhibit Hall so you can check in with what's happening back home.
- Notebooks and pens.



“ (The best part of the convention is) meeting other professionals involved in ultrasound, seeing their PASSION, and hearing their experiences. ”

—2013 AIUM Annual Convention Attendee

General Information

Convention Registration Rates

Registration rates are payable with submission of the registration form. Convention registration rates cover attendance to sessions held Sunday, March 30, through Wednesday, April 2, 2014. (Three- and Four-Dimensional Volume Data Set Manipulation Sessions and Hands-on Special Interest Sessions have additional fees.)

AIUM Member Registration Rates

To be eligible for AIUM member registration rates, membership must be current through the convention dates.

Spouse and Guest Registration

You may register a spouse/guest for \$100, which provides access to the Exhibit Hall.

Badges

For those attendees registering in advance, your badge and registration materials will be held for you at the AIUM Advance Registration Desk, located at the Caesars Palace Conference Center, Promenade South Octavius Ballroom.

Confirmation

Once your registration form, accompanied by full payment, is received, the AIUM Professional Development Department will send you a confirmation e-mailed to you by Danielle Delanko, ddelanko@aium.org. After March 21, 2014, registration will be accepted on-site only.

Cancellations

Written cancellations must be received by January 15, 2014, to receive a refund of meeting registration fees minus a \$75 administrative fee. Written cancellations after January 15, 2014, will not receive a refund. All cancellations must be received by the AIUM via fax or mail.

Questions

If you have any questions about the 2014 AIUM Annual Convention and Preconvention Program, contact the Professional Development Department at 800-638-5352 or 301-498-4100 or via e-mail at conv_edu@aium.org.

What to Wear

Attire at this year's convention is business casual. Please note that meeting rooms are air-conditioned, so prepare for all temperatures.

Children

Educational Sessions—Due to the nature of the educational sessions, we do not encourage children to be present.

Exhibit Hall—Children may walk through the Exhibit Hall if they are accompanied by an adult who will assume responsibility for any damage to exhibits caused by the child. Children are not permitted in the Exhibit Hall during the exhibit setup and dismantlement period.

Videotaping and Photography Policy

The AIUM does not allow any unauthorized videotaping or photography during the AIUM Annual Convention or Preconvention Program except by management and its designated agents.

The AIUM reserves the right to photograph or videotape any exhibits or attendee for use in promotional materials or any other AIUM publication. The AIUM may videotape several educational courses for inclusion in the AIUM's educational video program library.

Smoking Policy

The Caesars Palace Conference Center is a smoke-free environment.



Hands-on Special Interest Sessions

Participate in sessions on musculoskeletal ultrasound, ultrasound-guided nerve blocks, carotid and transcranial Doppler ultrasound, elastography, how to do the biopsy, and pediatrics. The cost for these sessions is \$50 each. Space is limited.

S1	Sunday, March 30	1:00 PM–3:00 PM	Musculoskeletal Ultrasound
S2	Sunday, March 30	3:15 PM–5:00 PM	Ultrasound-Guided Nerve Blocks
M1	Monday, March 31	8:15 AM–10:15 AM	Carotid and Transcranial Doppler Ultrasound
M2	Monday, March 31	1:30 PM–3:30 PM	Elastography
T1	Tuesday, April 1	8:15 AM–10:15 AM	How to Do the Biopsy
T2	Tuesday, April 1	1:30 PM–3:15 PM	Pediatric Ultrasound
T3	Tuesday, April 1	3:45 PM–5:30 PM	Pediatric Ultrasound

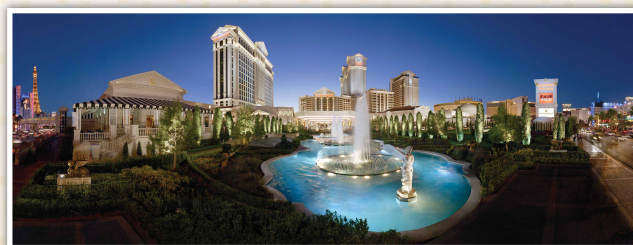
Hotel Information

Caesars Palace

The Standard for Decadent Luxury

This iconic luxury hotel sets the standard for opulent details, impeccable service, and lavish accommodations. A tantalizing selection of leisurely indulgences include world-renowned entertainment, a spectacular casino, 6 unique Garden of the Gods pools, and the top-ranked resort spa in Las Vegas. Celebrity chef-owned restaurants and the top-rated buffet in Las Vegas provide opportunities for unforgettable dining experiences.

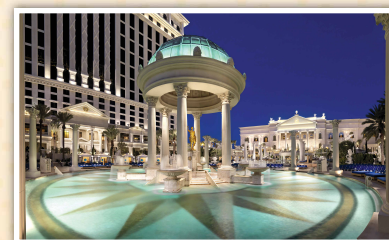
Caesars Palace Las Vegas
3570 Las Vegas Blvd S
Las Vegas, NV 89109 USA



Making Hotel Reservations

You must register for the convention before booking your hotel room. Information will be provided to you in your convention registration confirmation letter, which will be e-mailed to you from Danielle Delanko, ddelanko@aium.org. Rooms are on a first-come, first-served basis. Reservations, based on availability, must be made no later than February 24, 2014.

Room Rates: single/double, \$199 plus applicable taxes.



Meeting and Exhibit Hall Hours

Community Meetings

Sunday, March 30

1:00 PM–3:00 PM Ultrasound in Medical Education
3:15 PM–5:00 PM Ultrasound in Global Health

Monday, March 31

10:15 AM–11:00 AM Pediatric Ultrasound
3:30 PM–4:00 PM Elastography
High-Frequency Clinical and Preclinical Imaging
Sonography
4:00 PM–5:30 PM Gynecologic Ultrasound
Musculoskeletal Ultrasound
5:30 PM–6:30 PM Basic Science and Instrumentation
Emergency and Critical Care Ultrasound
Neurosonology
Obstetric Ultrasound

Tuesday, April 1

10:15 AM–11:00 AM Cardiovascular Ultrasound
Contrast-Enhanced Ultrasound
Interventional-Intraoperative Ultrasound
4:00 PM–5:30 PM General and Abdominal Ultrasound

Wednesday, April 2

8:15 AM–10:15 AM Fetal Echocardiography
10:15 AM–11:00 AM Therapeutic Ultrasound

Exhibit Hall Hours

Sunday, March 30

Grand Opening Luncheon

11:15 AM–4:30 PM

11:15 AM–1:00 PM

Monday, March 31

Coffee service
Refreshment break
Lunch
Refreshment break

9:30 AM–4:30 PM

9:30 AM–11:00 AM
10:15 AM–11:00 AM
12:30 PM–1:30 PM
3:30 PM–4:00 PM

Tuesday, April 1

Coffee service
Refreshment break
Lunch
Refreshment break

9:30 AM–4:30 PM

9:30 AM–11:00 AM
10:15 AM–11:00 AM
12:30 PM–1:30 PM
3:30 PM–4:00 PM

Wednesday, April 2

Coffee service
Refreshment break
Lunch
Refreshment break

9:30 AM–4:30 PM

9:30 AM–11:00 AM
10:15 AM–11:00 AM
12:30 PM–1:30 PM
3:30 PM–4:00 PM

Committee Meetings

Visit the AIUM website at www.aium.org for the committee meeting schedule, available November 18, 2013.

“The exhibition was great because we were able to see what types of machines/phantoms are out there and PRACTICE using them.”

—2013 AIUM Annual Convention Attendee

Educational Opportunities

Preconvention Program

Attend courses providing in-depth coverage of ultrasound issues. Earn up to 7.0 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

Just Images Sessions

View and discuss unique cases with the physicians who made the diagnosis.

Comprehensive Refresher Sessions

Comprehensive Refresher sessions are venues for luminary speakers to present an overall review of a topic.

Special Interest Sessions

Choose from concurrent courses developed by Community chairs and the Annual Convention Committee and presented by distinguished ultrasound professionals.

Hands-on Special Interest Sessions

Participate in sessions on musculoskeletal ultrasound, ultrasound-guided nerve blocks, carotid and transcranial Doppler ultrasound, elastography, how to do the biopsy, and pediatrics. The cost for these sessions is \$50 each. Space is limited.

Film Panel Sessions

A group of expert panelists will evaluate new and challenging cases in ultrasound.

Three- and Four-Dimensional Volume Data Set Manipulation Sessions

Participate in small-group sessions led by renowned ultrasound professionals. Space is limited. Register early as these sessions will sell out quickly. Three- and Four-Dimensional Volume Data Set Manipulation Sessions are not included in the convention registration fee. The cost for these sessions is \$30 each.

Scientific Sessions

Learn about the latest research in ultrasound. Topics include but are not limited to:

- Basic Science
- Breast Ultrasound
- Cardiovascular Ultrasound
- Clinical Tissue Characterization
- Contrast-Enhanced Ultrasound
- Emergency Ultrasound
- General and Abdominal Ultrasound
- Genitourinary Ultrasound
- Gynecologic Ultrasound
- High-Frequency Clinical and Preclinical Imaging
- Interventional/Intraoperative Ultrasound
- Musculoskeletal Ultrasound
- Obstetric Ultrasound
- Pediatric Ultrasound
- Sonography Practice
- Therapeutic Ultrasound

E-Posters

E-posters allow authors to present their research using a monitor and computer to effectively convey information that would not necessarily be possible with a traditional printed poster.

Accreditation Tutorial

Learn how easy it is to complete the ultrasound practice accreditation process and get answers to the most commonly asked questions regarding accreditation.

Learn about AIUM standards for examination protocols, personnel, quality assurance, record keeping, safety, and physical facilities. This workshop incorporates a hands-on session that shows the individual how to fill out the online application, upload images, and apply for accreditation.

Case-of-the-Day Challenges

Test your abilities each day by diagnosing unique case studies.

Community Meetings (Formerly Communities of Practice)

Meet with other ultrasound professionals who share your interests, plan future AIUM educational programs, and discuss the issues in your specialty.

“Topics were *highly* relevant. Great faculty. Hands-on workshops are ESSENTIAL for ultrasound meetings.”

—2013 AIUM Annual Convention Attendee

Continuing Medical Education (CME) Credit Information

Activity Description

The 2014 AIUM Annual Convention and Preconvention Program is the most comprehensive, cutting-edge meeting for the entire medical ultrasound community. Our unique multidisciplinary program provides a collaborative environment for all specialties and disciplines, from beginner to advanced.

Accreditation Statement

The American Institute of Ultrasound in Medicine (AIUM) is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide CME activities for physicians.

Designation Statement

The AIUM designates the 2014 Preconvention Program for a maximum of up to *7.0 AMA PRA Category 1 CME Credits™*. The AIUM designates the 2014 Annual Convention for a maximum of up to *34.25 AMA PRA Category 1 CME Credits™*. Physicians should only claim credit commensurate with the extent of their participation in the activity.

Credits for Sonographers

Sonographers participating in AIUM educational activities may earn credits toward maintaining their professional certification from the following organizations:

American Registry for Diagnostic Medical Sonography (ARDMS)

The ARDMS accepts *AMA PRA Category 1 CME Credits™*.

American Registry of Radiologic Technologists (ARRT)

The AIUM is a Recognized Continuing Education Evaluation Mechanism (RCEEM) for the ARRT. These educational activities are approved by the AIUM for ARRT Category A Credits.

Target Audience

This activity is designed to meet the needs of ultrasound professionals from various medical disciplines and specialty areas who perform and interpret ultrasound examinations.

Course Objectives

On completion of this learning activity, participants should be able to:

- Demonstrate updated knowledge in basic science and instrumentation, cardiovascular ultrasound, contrast-enhanced ultrasound, emergency and critical care ultrasound, fetal echocardiography, general and abdominal ultrasound, gynecologic ultrasound, high-frequency clinical and preclinical imaging, interventional-intraoperative ultrasound, musculoskeletal ultrasound, neurosonology, obstetric ultrasound, pediatric ultrasound, sonography, and therapeutic ultrasound;
- Discuss state-of-the-art ultrasound research;
- Practice updated ultrasound skills for more effective diagnosis; and
- Apply updated knowledge and clinical skills in improving patient care.

Activity Designed to Change:

Competence; and
Performance.

Accreditation Council of Graduate Medical Education (ACGME) Competencies

These courses are designed to meet one or more of the following ACGME competencies:

Interpersonal and communication skills;
Medical knowledge;
Patient care and procedural skills;
Practice-based learning and improvement;
Professionalism; and
Systems-based learning.

Disclosure Policy

As a provider accredited by the ACCME, the AIUM must ensure balance, independence, objectivity, and scientific rigor in all its activities. Anyone involved in planning this CME activity is required to disclose to learners all relevant financial relationship(s) that have occurred within the last 12 months with any commercial interest(s) whose products or services are discussed in the CME content. A commercial interest is any entity producing, marketing, reselling, or distributing health care goods or services consumed by or used on patients. Such relationships are defined by remuneration in any amount from the commercial interest(s) in the form of grants; research support; consulting fees; salary; ownership interest (eg, stocks, stock options, or ownership interest excluding diversified mutual funds); honoraria or other payments for participation in speakers bureaus, advisory boards, or boards of directors; and other financial benefits. Individuals involved in planning will be asked to recuse themselves from any portion of the planning where a bias might exist.

All faculty participating in an educational activity provided by the AIUM are required to disclose to the provider and to the learner any relevant financial relationships with any commercial interest. The AIUM must determine if the faculty's relationships may influence the educational content with regard to expositions or conclusions and resolve any conflicts of interest before the commencement of the educational activity. The intent of this disclosure is not to prevent faculty with relevant financial relationships from serving as faculty but rather to provide members of the audience with information on which they can make their own judgments.

The AIUM will review all disclosures and resolve or manage all identified conflicts of interest, as applicable.

Policy on Unlabeled/Off-Label Usage

The AIUM has determined that disclosure of unlabeled/off-label or investigational use of commercial products is informative for audiences and therefore requires this information to be disclosed to the learners at the beginning of the presentation. Uses of specific therapeutic agents, devices, and other products discussed in this educational activity may not be the same as those indicated in product labeling approved by the US Food and Drug Administration. The AIUM requires that any discussions of such "off-label" use be based on scientific research that conforms to generally accepted standards of experimental design, data collection, and data analysis. Before recommending or prescribing any therapeutic agent or device, learners should review the complete prescribing information, including indications, contraindications, warnings, precautions, and adverse events.

Disclaimer

The information presented in this activity represents the opinions of the faculty and is not necessarily the official position of the AIUM.

Documenting CME Credits

The AIUM provides CME certificates to those who have participated in an AIUM educational activity. The AIUM does not submit credits to regulating bodies or certifying organizations on behalf of the participant. It is the participant's responsibility to submit proof of credits on his or her own behalf.

Disclosures for this Activity

The faculty, committee members, and AIUM staff involved in planning this CME activity have completed a Disclosure of Financial Relationship. Disclosures are listed under the speaker's name. All disclosures are printed in the 2014 Annual Convention *Official Proceedings*. All completed disclosure forms are on file and available for review at the AIUM office.

Special Interest Tracks

 — Hands-on Special Interest Sessions

BSI Basic Science and Instrumentation

- Advances in the Technology and Applications of Resuscitative Point-of-Care Ultrasound in Critical Care and Emergency Medicine **SUN**
- Applications of High-Frame-Rate Ultrasonic Imaging **SUN**
- Design of Ultrasound Instruments for the Developing World **MON**
- New Direction for Ultrasound: Nondelay and Sum Beam Formation **MON**
- New Possibilities in Transducer/System Integration **MON**
- Basic Science and Preclinical Applications of Ultrasound Contrast **TUE**
- Ultrasound Research Systems **TUE**

CARDIO Cardiovascular Ultrasound

- The Abdominal Aorta: Imaging Before and After Endovascular Interventions **SUN**
- Carotid and Upper Extremity Arterial Imaging: Challenges, Pitfalls, and Missed Diagnoses **MON**
-  Hands-on Carotid and Transcranial Doppler Ultrasound **MON**
- Imaging of the Patient With Renal Failure **MON**
- Lower Extremity Arterial and Venous Imaging: Pitfalls and Misdiagnoses **TUE**
- Vascular Emergencies: Diagnostic Imaging and Interventions **TUE**
- Just Images: Transcranial Doppler Ultrasound **WED**
- Venous Ablation Interventions: Duplex Imaging Before, During, and After the Procedure **WED**

CEUS Contrast-Enhanced Ultrasound

- Clinical Applications of Ultrasound Contrast, Part 1 **TUE**
- Clinical Applications of Ultrasound Contrast, Part 2 **TUE**
- Clinical Applications of Contrast-Enhanced Ultrasound **WED**
- Contrast-Enhanced Ultrasound in Children: The European and US Experience **WED**

ELAST Elastography

- Elastography: State of the Art, 2014 **SAT**
-  Hands-on Elastography **MON**

EMCC Emergency and Critical Care Ultrasound

- Thoracic Ultrasound in the Emergency and Critical Care Patient **SAT**
- Ultrasound of the Critically Ill Child **SAT**
- Advanced Point-of-Care Cardiac Ultrasound in the Emergency and Critical Care Patient **SUN**
-  Hands-on Ultrasound-Guided Nerve Blocks **SUN**
- Difficult Diagnoses in the Pediatric Patient in the Emergency Department: Can Ultrasound Help? **MON**
- Just Images: Ultrasound Imaging of Vascular Emergencies **MON**
- Challenging Thoracic Sonography Cases **TUE**
- Just Images: Ultrasound Evaluation of Acute Abdominal Pain **TUE**
- New Horizons in Critical Care Ultrasound **TUE**
- Point-of-Care Ultrasonography in the Management of the Hypotensive Patient **TUE**

- Head and Neck Ultrasound **WED**
- Just Images: Applications of Musculoskeletal Ultrasound in the Emergency Department **WED**
- Teaching and Assessing Point-of-Care Ultrasonography **WED**

FE Fetal Echocardiography

-  Hands-on Obstetric Ultrasound, Fetal Cardiac Screening, and Simulation **SAT**
- Real Cases of Fetal Heart Disease: Detection, Diagnosis, Management, and Outcomes **SUN**
- Cardiac Imaging: Live Scanning **MON**
- New Guidelines for Cardiac Imaging **MON**
- Basic Cardiac Screening: How to Acquire/Interpret the Required Views **TUE**
- False Positives and False Negatives **TUE**
- First-Trimester Fetal Cardiac Imaging **TUE**
- Cardiac Unknowns **WED**
- Three- and Four-Dimensional Volume Data Set Manipulation: Fetal Echocardiography **WED**

G & A General and Abdominal Ultrasound

- Advanced Liver Doppler Techniques and Applications **SUN**
- Transplant Imaging **SUN**
- Advanced Gallbladder Disease **MON**
- Breast Ultrasound **MON**
- Head and Neck Ultrasound **TUE**
- Missing Cases **WED**
- Scrotal Ultrasound **WED**

GYN Gynecologic Ultrasound

- Advances in 3-Dimensional Obstetric and Gynecologic Ultrasound **SAT**
- Endometriosis in Gynecologic Sonography **SUN**
- Evaluation of Bleeding and Pain in Early Pregnancy **SUN**
- Early Obstetric Scanning and Pregnancy of Unusual Location **MON**
- Gynecologic Sonography in the Breast Cancer Patient **MON**
- Abdominal and Pelvic Pain in the Emergency Room **TUE**
- Gynecologic Unknowns **TUE**
- Gynecologic Sonography in the Infertility Patient **WED**
- Just Images With Ultrasound Correlation in Office Procedures and for Guidance in the Operating Room **WED**
- Three- and Four-Dimensional Volume Data Set Manipulation: Gynecology **WED**
- Wheel of Fortune: Proper Obstetric/Gynecologic Ultrasound Coding **WED**

HFI High-Frequency Clinical and Preclinical Imaging

- Clinical and Preclinical Applications of High-Frequency Cardiovascular Ultrasound **SUN**
- Translational Imaging: Bench to Bedside **MON**
- Advances in Photoacoustic Imaging **TUE**

(continued)

Special Interest Tracks (continued)

 — Hands-on Special Interest Sessions

IVIO **Interventional and Intraoperative Ultrasound**

-  Hands-on How to Do the Biopsy **TUE**
- Interesting Cases in Interventional Ultrasound: Things We Learned. **TUE**
- New Techniques/New Materials in Ultrasound Procedures. **WED**

MSK **Musculoskeletal Ultrasound**

- Comprehensive Review of Musculoskeletal Ultrasound. **SAT**
- Cutting-Edge Musculoskeletal Ultrasound: Peripheral Nerves of the Lower Extremity **SUN**
-  Hands-on Musculoskeletal Ultrasound **SUN**
- New Ultrasound Applications in Soft Tissue Lesions: From Muscle to Skin. **MON**
- Rheumatologic Applications of Ultrasound: Gout From A to Z. **MON**
- Anatomy and Pathology of the Adolescent Hip **TUE**

NEURO **Neurosonology**

- Prenatal Malformations of the Head, Face, and Neck **SUN**
- Spinal Sonography of Children **SUN**
-  Hands-on Carotid and Transcranial Doppler Ultrasound **MON**
- Transcranial Doppler Ultrasound and Cerebrovascular Disease **MON**
- Sonographic Evaluation of the Neonatal Brain **TUE**
- Neuroanatomic Syllabus for Perinatal and Pediatric Sonographers: We Should See What We're Missing **WED**

OB **Obstetric Ultrasound**

- Fetal Evaluation in the First Trimester: Where Are We Going? . . . **SAT**
-  Hands-on Obstetric Ultrasound, Fetal Cardiac Screening, and Simulation **SAT**
- Three- and Four-Dimensional Ultrasound: More Than Just a Show **SUN**
- Use of Doppler Interrogation in Clinical Obstetrics. **SUN**
- Obstetric Film Panel: Interesting Prenatal Cases With Neonatal Follow-up. **MON**
- Ten Most Common First- and Second-Trimester Anomalies: Don't Miss This Show! **MON**
- As Low as Reasonably Achievable (ALARA): Don't Gamble With Power **TUE**
- Fetal Tumors **TUE**
- Multiple Gestations **WED**
- Neuroanatomic Syllabus for Perinatal and Pediatric Sonographers: We Should See What We're Missing **WED**
- Three- and Four-Dimensional Volume Data Set Manipulation: Obstetrics **WED**
- Wheel of Fortune: Proper Obstetric/Gynecologic Ultrasound Coding **WED**

PEDS **Pediatric Ultrasound**

- Ultrasound of the Critically Ill Child. **SAT**
- Prenatal Malformations of the Head, Face, and Neck **SUN**
- Spinal Sonography of Children **SUN**
- Musculoskeletal Ultrasound: Transition From Adult to Pediatrics. **MON**
- Pediatric Endocrine Ultrasound **MON**
-  Hands-on Pediatric Ultrasound **TUE**
- Pediatric Emergencies and Their Simulators: Ultrasound Evaluations **TUE**
- Problem-Oriented Pediatric Ultrasound **TUE**
- Sonographic Evaluation of the Brachial Plexus and Related Problems: Making Sense of the Brachial Plexus. **TUE**
- Sonographic Evaluation of the Neonatal Brain **TUE**
- Contrast-Enhanced Ultrasound in Children: The European and US Experience **WED**
- Just Images: Perinatal Ultrasound and Neonatal Correlations . . . **WED**
- Neuroanatomic Syllabus for Perinatal and Pediatric Sonographers: We Should See What We're Missing **WED**

SONO **Sonography**

- Quality Assurance: It Matters **SUN**
- How Do I Decide Which Ultrasound Simulator I Need? **MON**

THERA **Therapeutic Ultrasound**

- Beneficial Bubbles: The Role of Ultrasound Contrast Agents in Therapy **WED**
- Magnetic Resonance Imaging–Guided Focused Ultrasound and Its Clinical Applications for Uterine Fibroids, Bone Metastasis, and Hemostasis. **WED**

GLOBAL **Ultrasound in Global Health**

- Lecture Series: Global Health **WED**

MEDED **Ultrasound in Medical Education**

- Current Ultrasound Integration Into Undergraduate Medical Education, Part 1 **MON**
- Current Ultrasound Integration Into Undergraduate Medical Education, Part 2 **MON**

ALL **Other**

- Accreditation Tutorial **TUE**
- Conducting Ultrasound Research and Getting It Published. **TUE**

Preconvention Program | Saturday, March 29, 2014

The 2014 AIUM Preconvention Program consists of 2 full-day courses covering musculoskeletal ultrasound and obstetric ultrasound and 5 half-day courses covering elastography, fetal evaluation in the first trimester, 3-dimensional obstetric/gynecologic sonography, thoracic ultrasound, and ultrasound of the critically ill child.

For more details about the AIUM Preconvention Program, including course schedules and how to register, visit the AIUM website at www.aium.org. Questions? Call 800-638-5352 or 301-498-4100.

7:30 AM–5:00 PM

Full-Day Courses

Earn up to 7.0 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

MSK Comprehensive Review of Musculoskeletal Ultrasound

Moderators: Humberto Rosas, MD, Colin Strickland, MD

Speakers: Nathalie Bureau, MD, Joseph Craig, MB ChB, Gandikota Girish, MBBS, Jon Jacobson, MD, Humberto Rosas, MD, Colin Strickland, MD

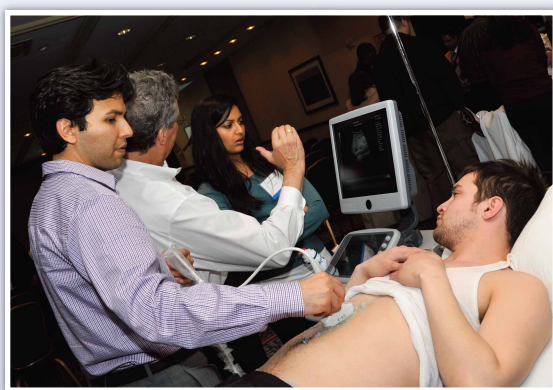
On completion of this course, participants should know how and when to perform musculoskeletal ultrasound to evaluate the shoulder, elbow, wrist, hip, knee, ankle, and foot.

OB Hands-on Obstetric Ultrasound, Fetal Cardiac Screening, and Simulation

FE *Moderators: Jude Crino, MD, Julia Solomon, MD*

Hands-on Faculty: Joseph Adashek, MD, Kathleen Bradley, MD, Laurie Briare, RT, RDMS, RVT, Kristen Diffenderfer, BS, RDMS, RVT, Jennifer Durbin, BS, RDMS, Bryan Freeman, MD, Angela Glaser, RDMS, Dianne Glassford, RDMS, Rebecca Hall, PhD, RDMS, Melody Hamrick, RDMS, RRT, Dianna Heidinger, RDMS, Amanda Howard, RDMS, Luis Izquierdo, MD, MBA, CPE, Hyeyoung Ju, BS, RDMS, RDCS, RVT, Martha Kelley-Martinez, RT, RDMS, Janet LaFerriere, RDMS, Rachel Mazza, BS, RDMS, RVT, Cyrethia McShane, BS, RDMS, Sarah Millard, BS, RDMS, Jessica Roberts, RDMS, Rebecca Ryan, RDMS, Vicki Schumacher, RDMS, Celeste Sheppard, MD, John Stock, MD, Shannon Trebes, RDMS, RVT, Cynthia Walker, RDMS, RT(R), Tina Wade, RDMS, Lisa Waters, RDMS, Joseph Wax, MD, Maria Zaharieva, MD, RDMS, RVT

This course will be organized into 3 segments: fetal biometry and the anatomic survey; fetal cardiac screening; and noncardiac obstetric Doppler, 3-dimensional, and 4-dimensional ultrasound. Each segment will start with a live demonstration of the skills taught in that segment, followed by hands-on scanning of second- and third-trimester pregnant models with supervision by sonographer and physician experts. Simulators for invasive obstetric procedures (amniocentesis and fetal blood sampling), endovaginal ultrasound, and fetal biometry and anatomy will be available for participants to use during the hands-on scanning times.



(continued)

Preconvention Program | Saturday, March 29, 2014 (continued)

7:30 AM–11:30 AM

Morning Half-Day Courses

Each half-day course is equal to 3.5 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

OB Fetal Evaluation in the First Trimester: Where Are We Going?

Moderator: Yaron Zalel, MD

Speakers: Jimmy Espinoza, MD, Mark Evans, MD, Waldo Sepulveda, MD, Ilan E. Timor-Tritsch, MD, Yuval Yaron, MD, Yaron Zalel, MD

In this session, participants will become familiar with the new era of noninvasive prenatal testing and learn about invasive procedures in this era, especially in twin gestations. They will also learn about the evolving dilemma of whether to scan or karyotype cases of increased nuchal translucency—the role of the genetic sonogram in early gestation. The audience will get a thorough evaluation of the list of anomalies that can be detected in the first trimester (ie, cardiac anomalies, facial anomalies with emphasis on the fetal palate, and brain anomalies), with special emphasis on the role of 3- and 4-dimensional ultrasound in the first trimester. They will also learn the limitations of scanning in this period of early gestation.

EMCC Ultrasound of the Critically Ill Child

PEDS *Moderator: Brian Coley, MD*

Speakers: Alyssa Abo, MD, Dorothy Bulas, MD, Jeff Burzynski, MD, Brian Coley, MD, Jason Fischer, MD, MSc, Lynn Fordham, MD, Sara O'Hara, MD, Eva Rubio, MD

This course will provide ultrasound information on technique and image analysis for various conditions seen in emergency and critically ill patients, emphasizing ultrasound in pediatric trauma and critical care.

1:00 PM–5:00 PM

Afternoon Half-Day Courses

Each half-day course is equal to 3.5 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

GYN Advances in 3-Dimensional Obstetric and Gynecologic Ultrasound

Moderator: Ilan E. Timor-Tritsch, MD

Speakers: Yvette Groszmann, MD, MPH, Ana Monteagudo, MD, RDMS, Ilan E. Timor-Tritsch, MD

This course is designed to provide you with an update on the newest technology developments.

ELAST Elastography: State of the Art, 2014

Moderator: Richard Barr, MD, PhD

Speakers: Ghobad Azizi, MD, Richard Barr, MD, PhD, Jean-Michel Correas, MD, PhD, David Cosgrove, MD, Zachary Domire, MD, Giovanna Ferraioli, MD, Carlo Filice, PhD, Mark Palmeri, MD, PhD

It is expected that quantitative elastography will be approved for use by the US Food and Drug Administration during 2013. The objectives of this course are to review indications and guidelines, describe techniques, and highlight tips and tricks for multiple applications. The emphasis will be on techniques already shown to be of clinical value. Newer in-process applications will be included in shorter talks.

EMCC Thoracic Ultrasound in the Emergency and Critical Care Patient

Moderator: Bret Nelson, MD, RDMS

Speakers: Andrew Liteplo, MD, RDMS, Bret Nelson, MD, RDMS, James Tsung, MD, MPH

On completion of this course, participants will be able to discuss clinical indications for thoracic ultrasound in the acutely ill patient and describe the sonographic appearance of normal lung as well as characteristic patterns of consolidation, pneumothorax, pulmonary edema, and other pathologic states.

5:00 PM–6:30 PM

Presidential Reception for New Members and Leadership (by invitation only)

Convention | Sunday, March 30, 2014

8:00 AM–9:30 AM

Special Interest Sessions

Earn up to 1.5 AMA PRA Category 1 Credits™
(accepted by the ARDMS) or ARRT Category A Credits.

EMCC Advanced Point-of-Care Cardiac Ultrasound in the Emergency and Critical Care Patient

Moderator: Robert Arntfield, MD, RDMS

*Speakers: Anthony Dean, MD, Scott Millington, MD,
R. Andrew Taylor, MD*

On completion of this session, participants will be able to:
(1) describe indications for cardiac ultrasound; (2) describe the evidence base for advanced techniques; and (3) discuss care algorithms that incorporate advanced cardiac ultrasound.

HFI Clinical and Preclinical Applications of High-Frequency Cardiovascular Ultrasound

Moderator: Jonathan Mamou, PhD

*Speakers: Jonathan Heyen, MS, John Hossack, PhD,
Yoshifumi Saijo, MD, PhD*

In this session, experts will describe the most recent cardiovascular applications of high-frequency ultrasound.

MSK Cutting-Edge Musculoskeletal Ultrasound: Peripheral Nerves of the Lower Extremity

Moderators: Humberto Rosas, MD, Corrie Yablon, MD

*Speakers: Courtney Scher, DO, Daniel Siegel, MD,
Corrie Yablon, MD*

On completion of this session, participants should know how and when to perform ultrasound examinations of the peripheral nerves of the lower extremity, including interventional techniques.

GYN Evaluation of Bleeding and Pain in Early Pregnancy

Moderator: Peter Doubilet, MD

*Speakers: Carol Benson, MD, Misty Blanchette Porter, MD,
Peter Doubilet, MD*

On completion of the session, participants will understand:
(1) criteria for diagnosing miscarriage in an intrauterine pregnancy of uncertain viability; (2) interpretation of nonspecific saclike intrauterine fluid collections in early pregnancy; and (3) guidelines regarding the possibility of a viable intrauterine gestation in a pregnancy of unknown location.

CARDIO The Abdominal Aorta: Imaging Before and After Endovascular Interventions

Moderator: Leslie Scoutt, MD

*Speakers: Phillip Bendick, PhD, RVT, George Berdejo, BA,
RVT, Edward Bluth, MD, Roy Fujitani, MD, RVT,
Hamid Mojibian, MD*

This session will accomplish the following: (1) review screening protocols for abdominal aortic aneurysms (AAAs); (2) describe the duplex technique of AAA measurement; and (3) review ultrasound criteria for postoperative evaluation of aortic endografts and the usefulness of ultrasound contrast.

OB Three- and Four-Dimensional Ultrasound: More Than Just a Show

Moderator: Delores Pretorius, MD

*Speakers: Krissa Beeker, RDMS, Luís Gonçalves, MD,
Delores Pretorius, MD, Lorene Romine, MD*

Participants attending this session will learn the following:
(1) explain the differences between 2-dimensional (2D) and 3D/4D imaging; (2) better understand methods of 3D ultrasound acquisition; (3) describe imaging planes; (4) describe indications for 3D ultrasound examinations; and (5) manipulate volume sets to visualize relevant anatomy.

“ (The convention is)
very, very, very,
well organized.
OUTSTANDING.”

—2013 AIUM Annual Convention Attendee

(continued)

9:45 AM–11:15 AM

Opening/Awards Session/ AIUM Business Meeting

Earn up to 1.0 AMA PRA Category 1 Credit™
(accepted by the ARDMS) or ARRT Category A Credit.

Awards Ceremony

William J. Fry Memorial Lecture Award

Joseph H. Holmes Clinical and Basic Science Pioneer Awards

Distinguished Sonographer Award

Honorary Fellow Awards

Plenary Session

Keeping Olympic Athletes in the Game: The Role of Diagnostic Ultrasound

Bill Moreau, DC, DACBSP

Managing Director, Sports Medicine
United States Olympic Committee
Colorado Springs, Colorado

11:15 AM–1:00 PM

Grand Opening Luncheon in the Exhibit Hall

The Grand Opening Luncheon will be held in the Exhibit Hall. Take the time to interact with colleagues as well as representatives from leading companies in the ultrasound industry. Lunch will be provided.



1:00 PM–3:00 PM

Special Interest Sessions

Earn up to 2.0 AMA PRA Category 1 Credits™
(accepted by the ARDMS) or ARRT Category A Credits.

G & A Advanced Liver Doppler Techniques and Applications

Moderator: Sharlene Teefey, MD

Speakers: Monzer Abu-Yousef, MB, BCh, ABR, Ulrike Hamper, MD, MBA, Leslie Scoutt, MD, Sharlene Teefey, MD

The objective of this session is to familiarize sonographers and technologists with common findings in patients with liver disease.

BSI Advances in the Technology and Applications of Resuscitative Point-of-Care Ultrasound in Critical Care and Emergency Medicine

Moderators: Oliver Kripfgans, PhD, Philip Levy, MD

Speakers: Nahi Halmann, PhD, Alexander Levitov, MD, RDMS, William Richard, PhD, John Younger, MD

On completion of this session, participants should be able to describe the impact of resuscitative point-of-care ultrasound in critical care and emergency medicine on teaching, research, and clinical practice and identify potential areas for technological innovation and collaboration.

MSK Hands-on Musculoskeletal Ultrasound

Moderator: Kenneth Lee, MD

Hands-on Faculty: Nathalie Bureau, MD, Joseph Craig, MD, Gandikota Girish, MBBS, Jon Jacobson, MD, Viviane Khoury, MD, William Medford, RDMS, RMSK, Humberto Rosas, MD, Courtney Scher, DO, Daniel Siegel, MD, Colin Strickland, MD, Ximena Wortsman, MD, Corrie Yablon, MD

On completion of this session, participants will have gained hands-on experience in scanning the peripheral nerves of the lower extremity.

SONO Quality Assurance: It Matters

Moderator: Nasrin Benion, RDMS

Speakers: M. Robert De Jong, RDMS, RDCS, RVT, Sheryl Goss, MS, RT(R)(S), RDMS, RDCS, RVT

On completion of this session, participants should be able to: (1) identify the equipment features that alter mechanical and thermal indices; (2) discuss the significance of using the equipment features to enhance accuracy in diagnosis; and (3) explore methods for establishing and overseeing quality assurance.

(continued)

NEURO Spinal Sonography of Children

PEDS Moderator: Michael Di Pietro, MD

Speakers: Michael Di Pietro, MD, Lisa Lowe, MD, Harriet Paltiel, MD

The objective of this session is to educate pediatric radiologists and sonographers about spinal pathologies in infants and children and the value of ultrasound in evaluating them.

OB Use of Doppler Interrogation in Clinical Obstetrics

Moderator: Donna Neale, MD

Speakers: Ray Bahado-Singh, MD, Jimmy Espinoza, MD, Giancarlo Mari, MD, Donna Neale, MD

The objectives of this session are to understand the physiopathology of Doppler ultrasound and to describe changes occurring in various fetal vessels as a result of various pathologies.

1:00 PM–3:00 PM

Community Meeting

Earn up to 2.0 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

MEDED Ultrasound in Medical Education

3:15 PM–5:00 PM

Special Interest Sessions

Earn up to 1.75 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

BSI Applications of High-Frame-Rate Ultrasonic Imaging

Moderators: Mark Holland, PhD, Chandra Sehgal, PhD

Speakers: Ronald Daigle, PhD, Jorgen Arendt Jensen, PhD, MSc(E), Elisa Konofagou, PhD, Mickael Tanter, PhD

On completion of this session, participants should be able to describe current applications of high-frame-rate ultrasonic imaging for research and potential clinical applications and identify potential areas for collaboration and innovation.

GYN Endometriosis in Gynecologic Sonography

Moderator: Jodi Lerner, MD

Speakers: Rochelle Andreotti, MD, Beryl Benacerraf, MD, Jodi Lerner, MD, Khaled Sakhel, MD

This session will provide an update on sonographic manifestations of endometriosis.

EMCC Hands-on Ultrasound-Guided Nerve Blocks

Moderator: Arun Nagdev, MD

Speakers: Lawrence Haines, MD, MPH, RDMS, Arun Nagdev, MD, David Rosenblum, MD

Hands-on Faculty: Lawrence Haines, MD, MPH, RDMS, Arun Nagdev, MD, David Rosenblum, MD

On completion of this session, participants will have an understanding of the sonographic appearance of multiple peripheral nerves, the benefits of sonographic guidance of nerve blocks, and the technique of ultrasound-guided nerve blocks.

NEURO Prenatal Malformations of the Head, Face, and Neck

PEDS

Moderator: Beth Kline-Fath, MD

Speakers: Maria Calvo-Garcia, MD, Judy Estroff, MD, Beth Kline-Fath, MD, Mariana Meyers, MD

The objectives of this session are to educate participants on the typical prenatal sonographic findings in malformations of the head, face, and neck and to show postnatal correlative imaging.

FE Real Cases of Fetal Heart Disease: Detection, Diagnosis, Management, and Outcomes

Moderator: Mark Sklansky, MD

Speakers: Tracy Anton, BS, RDMS, RDCS, Bettina Cuneo, MD, RDCS, Norman Silverman, MD, DSc, Lynn Simpson, MD, MSc, Elena Sinkovskaya, PhD, MD

The objective of this session is to discuss real cases of congenital heart disease, including input from a multidisciplinary panel of experts.

G&A Transplant Imaging

Moderator: Susan Ackerman, MD

Speakers: Susan Ackerman, MD, Seerat Aziz, MD, Edward Bluth, MD

On completion of this session, participants will be able to discuss how transplant organs should be imaged and recognize common and uncommon abnormal findings.

3:15 PM–5:00 PM

Community Meeting

Earn up to 1.75 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

GLOBAL Ultrasound in Global Health

Convention | Monday, March 31, 2014

7:00 AM–8:00 AM

Just Images and Comprehensive Refresher Sessions

Earn up to 1.0 AMA PRA Category 1 Credit™ (accepted by the ARDMS) or ARRT Category A Credit.

G & A Advanced Gallbladder Disease

Moderator: Sharlene Teefey, MD

Speakers: Hanh Nghiem, MD, Sharlene Teefey, MD

This session will introduce the basics of gallbladder abnormalities and then discuss the spectrum of advanced disease, including emphysematous and gangrenous cholecystitis, acalculous cholecystitis, and associated biliary disease.

CARDIO Carotid and Upper Extremity Arterial Imaging: Challenges, Pitfalls, and Missed Diagnoses

Moderator: Jennifer McDowell, MM, RVT, RDMS, RT

Speakers: Laurence Needleman, MD, John Pellerito, MD

The objectives of this session are to review case studies and images of carotid and upper extremity imaging and appreciate technical artifacts, pitfalls, and reasons for missed diagnoses.

BSI Design of Ultrasound Instruments for the Developing World

Moderators: J. Brian Fowlkes, PhD, David Vilkomerson, PhD

Speakers: Ajay Anand, MD, Sachita Shah, MD, Kai Thomenius, PhD

This session will begin with a description of the clinical uses for and difficulties (cost, ease of use, serviceability, and ruggedness) with ultrasound imagers in the developing world. There will then be talks outlining technical constraints to meeting the requirements of developing world instrumentation and discussing differing solutions to the problem, ranging from extremely low-cost (<\$1000) but limited-capability imagers through various improved systems at higher costs. Designers for major manufacturers (eg, GE) will describe their approaches to providing such instruments in the near future, and a discussion will follow among the designers and clinical users as to desirable features and cost-benefit trade-offs of such imagers.

GYN Early Obstetric Scanning and Pregnancy of Unusual Location

Moderator: Ana Monteagudo, MD, RDMS

Speakers: Ana Monteagudo, MD, RDMS, Ilan E. Timor-Tritsch, MD

The objective of this session is to provide better delineation of unusual pregnancy: cesarean delivery scar, cornual, and cervical.

SONO How Do I Decide Which Ultrasound Simulator I Need?

Moderator: Christine Bird, BS, RDMS, RVT

Speaker: Adam Dodson, NCEE, NRP, CCEMTP

This session will familiarize potential users with the features and choices available in ultrasound simulators.

EMCC Just Images: Ultrasound Imaging of Vascular Emergencies

Moderator: Leslie Scoutt, MD

Speakers: Leslie Scoutt, MD, Sheila Sheth, MD

This session will discuss the role of ultrasound in the evaluation of a variety of vascular emergencies.

FE New Guidelines for Fetal Cardiac Imaging

Moderator: Lynn Simpson, MD, MSc

Speakers: Joshua Copel, MD, Gregory DeVore, MD, Dolores Pretorius, MD

The objective of this session is to present the new guidelines for screening for congenital heart disease during routine obstetric ultrasound examinations and for the performance of fetal echocardiography as well to discuss the medicolegal implications of these new guidelines for clinical practice.

PEDS Pediatric Endocrine Ultrasound

Moderator: Rob Goodman, MBBCChir

Speakers: Rob Goodman, MBBCChir, Nadia Mahmood, MD, Carol Barnewolt, MD

This session will review various pediatric endocrine conditions presenting with ultrasound-diagnosable findings. These will include evaluations of the pediatric thyroid, adrenal glands, ovary, testicle, and liver.

MSK Rheumatologic Applications of Ultrasound: Gout From A to Z

Moderator: Ralf Thiele, MD

Speakers: Alberto Simoncini, MD, Ralf Thiele, MD

On completion of this session, participants will know when and how to use musculoskeletal ultrasound for rheumatologic disease such as gout.

(continued)

8:15 AM–10:15 AM

Special Interest Sessions

Earn up to 2.0 AMA PRA Category 1 Credits™
(accepted by the ARDMS) or ARRT Category A Credits.

FE Cardiac Imaging: Live Scanning

Moderator: Lynn Simpson, MD, MSc

Speakers: Alfred Abuhamad, MD, Tracy Anton, BS, RDMS, RDSCS, Gregory DeVore, MD, Karim Diab, MD, Lynn Simpson, MD, MSc, Mark Sklansky, MD

The objective of this session is to demonstrate basic cardiac screening and detailed fetal echocardiography through live scanning by the experts.

MEDED Current Ultrasound Integration Into Undergraduate Medical Education, Part 1

Moderator: David Bahner, MD, RDMS

Speakers: David Amponsah, MD, RDMS, J. Christian Fox, MD, RDMS, Richard Hoppmann, MD, John Pellerito, MD

The objectives of this session are to: (1) describe current undergraduate and graduate medical education initiatives centered on ultrasound education and major medical schools with 4-year curricula; (2) describe successful methods for securing resources, providing equipment, and organizing undergraduate ultrasound medical education in a medical school curriculum; and (3) determine innovations in simulation, hands-on ultrasound training, and clinical experiences in the preclinical and clinical years of medical school.

GYN Gynecologic Sonography in the Breast Cancer Patient

Moderator: Jodi Lerner, MD

Speakers: Arthur C. Fleischer, MD, Steven Goldstein, MD, Jodi Lerner, MD

This session will address how to manage premenopausal and postmenopausal patients with breast cancer.

CARDIO NEURO Hands-on Carotid and Transcranial Doppler Ultrasound

Moderators: Tatjana Rundek, MD, PhD, Susan Smith, MD

Speakers: M. Robert De Jong, RDMS, RDSCS, RVT, Susan Smith, MD

Hands-on Faculty: Andre Alexandrov, MD, RVT, Eva Bartels, MD, PhD, Digna Cabral, BS, Nelly Campo, MD, M. Robert De Jong, RDMS, RDSCS, RVT, Zsolt Garami, MD, Emmanuel Gaspard, MD, Adrien Raczy, MD, Susan Smith, MD, Charles Tegeler, MD

The objective of this session is to provide basics on transcranial Doppler scanning and interpretation.

PEDS Musculoskeletal Ultrasound: Transition From Adult to Pediatrics

Moderator: Marnix van Holsbeeck, MD

Speakers: J. Antonio Bouffard, MD, Michael Di Pietro, MD, Gandikota Girish, MBBS

The objective of this session is to teach adult musculoskeletal techniques for practitioners involved with a younger age group: the child.

BSI New Direction for Ultrasound: Nondelay and Sum Beam Formation

Moderators: Kai Thomenius, PhD, James Zagzebski, PhD

Speakers: Jeremy Dahl, PhD, Fong Ming Hoo, PhD, Bruno Madore, Oliver Roy, PhD, Kai Thomenius, PhD, James Zagzebski, PhD

On completion of this session, participants should be able to recognize the limitations inherent in today's scanners, more specifically, their beam formers, and appreciate the potential of new and evolving approaches to overcome such limitations.

10:15 AM–11:00 AM

Refreshment Break in the Exhibit Hall

10:15 AM–11:00 AM

Community Meeting

Earn up to 0.75 AMA PRA Category 1 Credits™
(accepted by the ARDMS) or ARRT Category A Credits.

PEDS Pediatric Ultrasound

11:00 AM–12:30 PM

Scientific Sessions

Earn up to 1.5 AMA PRA Category 1 Credits™
(accepted by the ARDMS) or ARRT Category A Credits.

Learn about the latest research in ultrasound in concise oral presentations.

12:30 PM–1:30 PM

Lunch in the Exhibit Hall

(continued)

1:30 PM–3:30 PM

Special Interest Sessions

Earn up to 2.0 AMA PRA Category 1 Credits™
(accepted by the ARDMS) or ARRT Category A Credits.

G & A Breast Ultrasound

Moderator: Abid Irshad, MBBS

*Speakers: Stamatia Destounis, MD, Madelene Lewis, MD,
Julie Mack, MD, A. Thomas Stavros, MD*

On completion of this session, participants should be able to recognize new trends in breast ultrasound.

MEDED Current Ultrasound Integration Into Undergraduate Medical Education, Part 2

Moderator: David Bahner, MD, RDMS

*Speakers: Creagh Boulger, MD, Matthew Dawson, MD,
RDMS, RDCS, Resa Lewiss, MD, RDMS,
Zachary Soucy, DO*

The objectives of this session are to: (1) describe current undergraduate and graduate medical education initiatives centered on ultrasound education and major medical schools with 4 year-curricula; (2) describe successful methods for securing resources, providing equipment, and organizing undergraduate ultrasound medical education in a medical school curriculum; and (3) determine innovations in simulation, hands-on ultrasound training, and clinical experiences in the preclinical and clinical years of medical school.

ELAST Hands-on Elastography

Moderator: Richard Barr, MD, PhD

Hands-on Faculty: Richard Barr, MD, PhD, Giovanna Ferraioli, MD, Carlo Filice, PhD

This session will provide hands-on training in how to perform elastography on multiple organs and will allow participants to observe the differences in elastographic techniques used by various vendors.

CARDIO Imaging of the Patient With Renal Failure

Moderator: John Blebea, MD, MBA

*Speakers: William Jennings, MD, Mark Lockhart, MD,
MPH, Jennifer McDowell, MM, RVT, RDMS, RT, Alessandra Puggioni, MD*

The objective of this session is to discuss the role of ultrasound in the patient with renal failure from diagnosis to intervention.

MSK New Ultrasound Applications in Soft Tissue Lesions: From Muscle to Skin

Moderators: Levon Nazarian, MD, Ximena Wortsman, MD

*Speakers: Viviane Khoury, MD, Jason Wagner, MD,
Ximena Wortsman, MD*

On completion of this session, participants should know when and how to perform ultrasound examinations for common applications in the muscle, soft tissue, and skin.

OB Ten Most Common First- and Second-Trimester Anomalies: Don't Miss This Show!

*Moderators: Phyllis Glanc, MDCM, BSc, Anne Kennedy,
MBBCh, MRCP*

*Speakers: Phyllis Glanc, MDCM, BSc, Anne Kennedy,
MBBCh, MRCP*

The objectives of this session are to: (1) describe the 10 fetal anomalies in the first trimester that should not be missed; and (2) describe the 10 fetal anomalies in the second trimester that should not be missed.

HFI Translational Imaging: Bench to Bedside

Moderator: Terri Swanson, MA

*Speakers: Arthur C. Fleischer, MD, Bradley Keller, MD,
Juergen Willmann, MD*

This session will provide experts to discuss current research and its translation to the human clinic.

3:30 PM–4:00 PM

Refreshment Break in the Exhibit Hall

3:30 PM–4:00 PM

Community Meetings

Earn up to 0.5 AMA PRA Category 1 Credits™
(accepted by the ARDMS) or ARRT Category A Credits.

ELAST Elastography

HFI High-Frequency Clinical and Preclinical Imaging

SONO Sonography

(continued)

4:00 PM–5:30 PM

Film Panel Sessions

Earn up to 1.5 AMA PRA Category 1 Credits™
(accepted by the ARDMS) or ARRT Category A Credits.

OB Obstetric Film Panel: Interesting Prenatal Cases With Neonatal Follow-up

Moderator: Janice Byrne, MD

Panelists: Timothy Canavan, MD, MSc, Joan Mastrobattista, MD, Mary O'Day, MD, Thomas Shipp, MD, RDMS, Isabelle Wilkins, MD

The objectives of this session are to: (1) evaluate new and challenging obstetric cases in ultrasound; (2) elicit audience responses for diagnoses; (3) discuss differential diagnoses and management of challenging cases; and (4) describe the use of magnetic resonance imaging as an adjunct to ultrasound in managing difficult fetal cases.

EMCC Difficult Diagnoses in the Pediatric Patient in the Emergency Department: Can Ultrasound Help?

Moderator: Rob Goodman, MBBChir

Panelists: Lei Chen, MD, Rob Goodman, MBBChir, David Kessler, MD, MSc, RDMS, Arthur Meyers, MD

This session will describe a variety of clinical situations in the pediatric patient where ultrasound may aid in diagnosis and compare ultrasound with other imaging modalities.

4:00 PM–5:30 PM

Special Interest Sessions

Earn up to 1.5 AMA PRA Category 1 Credits™
(accepted by the ARDMS) or ARRT Category A Credits.

BSI New Possibilities in Transducer/System Integration

Moderators: Peter Lewin, MSc, PhD, Thomas Szabo, PhD

Speakers: Chris Daft, PhD, Christian Degel, MS, B. Pierre Khuri-Yakub, PhD, Bae-Hyung Kim, PhD

The objective of this session is to inform users and researchers about present and emerging developments in the integration of transducers and front-end and beam-forming functions that are and will affect the way ultrasound imaging is being conducted.

NEURO Transcranial Doppler Ultrasound and Cerebrovascular Disease

Moderator: Tatjana Rundek, MD, PhD

Speakers: Andrei Alexandrov, MD, RVT, Zsolt Garami, MD

The objective of this session is to provide an overview of transcranial Doppler applications for detection and treatment of cerebrovascular and cardiovascular diseases.

4:00 PM–5:30 PM

Scientific Sessions

Earn up to 1.5 AMA PRA Category 1 Credits™
(accepted by the ARDMS) or ARRT Category A Credits.

Learn about the latest research in ultrasound in concise oral presentations.

4:00 PM–5:30 PM

Community Meetings

Earn up to 1.5 AMA PRA Category 1 Credits™
(accepted by the ARDMS) or ARRT Category A Credits.

GYN Gynecologic Ultrasound

MSK Musculoskeletal Ultrasound

5:30 PM–6:30 PM

Community Meetings

Earn up to 1.0 AMA PRA Category 1 Credit™
(accepted by the ARDMS) or ARRT Category A Credit.

BSI Basic Science and Instrumentation

EMCC Emergency and Critical Care Ultrasound

NEURO Neurosonology

OB Obstetric Ultrasound

Convention | Tuesday, April 1, 2014

7:00 AM–8:00 AM

Just Images and Comprehensive Refresher Sessions

Earn up to 1.0 AMA PRA Category 1 Credit™ (accepted by the ARDMS) or ARRT Category A Credit.

HFI Advances in Photoacoustic Imaging

Moderator: Ronald Silverman, PhD

Speakers: Stanislav Emelianov, PhD, Lihong Wang, PhD

This session will provide experts to describe the most recent advances in this technique.

OB As Low as Reasonably Achievable (ALARA): Don't Gamble With Power

Moderator: Jacques Abramowicz, MD

Speakers: Jacques Abramowicz, MD, Therese Cooper, BS, RDMS

The objectives of this session are to: (1) define risks of ultrasound in obstetric practice; (2) explain how power is altered by various settings on the ultrasound scan; and (3) educate on how to keep ultrasound safe.

MSK Anatomy and Pathology of the Adolescent Hip

Moderator: Joseph Craig, MD

Speaker: Marnix van Holsbeeck, MD

The objectives of this session are to gain knowledge of normal ultrasound anatomy of the adolescent hip, understand the use of ultrasound in evaluating common and uncommon injuries of the adolescent hip, and discuss the advantages of dynamic ultrasound for assessing hip-related injuries.

FE False Positives and False Negatives

Moderator: Liat Gindes, MD

Speakers: Karim Diab, MD, Miwa Geiger, MD, Liat Gindes, MD, Gary Satou, MD

The objective of this session is to present false-positive and false-negative cases of congenital heart disease.

IVIO Interesting Cases in Interventional Ultrasound: Things We Learned

Moderator: Wui Chong, MD

Speakers: Devang Butani, MD, Dean Huang, MD

The objective of this session is to understand the various challenging situations during interventions under ultrasound guidance and how to approach and manage them.

EMCC Just Images: Ultrasound Evaluation of Acute Abdominal Pain

Moderator: Susan Ackerman, MD

Speakers: Susan Ackerman, MD, Shweta Bhatt, MD

This session will review the role of ultrasound in the evaluation of patients presenting with acute abdominal pain.

CARDIO Lower Extremity Arterial and Venous Imaging: Pitfalls and Misdiagnoses

Moderator: Leslie Scoutt, MD

Speakers: Gowthaman Gunabushanam, MD, Salvatore LaRusso, MEd, RDMS, RT(R)

The objectives of this session are to: (1) review case studies and images of lower extremity arterial and venous imaging; and (2) appreciate technical artifacts, pitfalls, and reasons for missed diagnoses.

PEDS Pediatric Emergencies and Their Simulators: Ultrasound Evaluations

Moderator: Leann Linam, MD

Speakers: Steven Kraus, MD, Leann Linam, MD, Martha Munden, MD

The objective of this session is to teach the imaging findings and techniques in handling emergency pediatric cases, including ovarian torsion, testicular torsion, and midgut volvulus.

NEURO Sonographic Evaluation of the Neonatal Brain

PEDS *Moderator: Sara O'Hara, MD*

Speakers: Kimberly Dannull, MD, Martha Munden, MD, Sara O'Hara, MD, Henrietta Kotlus Rosenberg, MD

The objective of this session is to review normal sonographic imaging techniques, normal brain anatomy, congenital malformations, and hypoxic-ischemic disease in the neonatal brain.

(continued)

8:15 AM–10:15 AM

Special Interest Sessions

Earn up to 2.0 AMA PRA Category 1 Credits™
(accepted by the ARDMS) or ARRT Category A Credits.

CEUS Clinical Applications of Ultrasound Contrast, Part 1

Moderator: Ulrike Hamper, MD, MBA

Speakers: Richard Barr, MD, PhD, Jean-Michel Correas, MD, PhD, David Cosgrove, MA, MSc, Giovanna Ferraioli, MD, Cynthia Peterson, MPH, RDMS, RVT

On completion of this course, registrants will understand: (1) the status of the European and World Federation for Ultrasound in Medicine and Biology guideline regarding contrast-enhanced ultrasound (CEUS); (2) the status of Food and Drug Administration approval of US contrast for radiologic use; (3) how contrast can legally be used off label today; (4) how CEUS can be integrated into daily practice; and (5) when to use US contrast as a problem-solving tool.

OB Fetal Tumors

Moderator: Israel Meizner, MD

Speakers: Israel Meizner, MD, Paula Woodward, MD

The objectives of this session are to describe various fetal tumors, evaluate diagnostic methods and management, and correlate findings with outcomes.

IVIO Hands-on How to Do the Biopsy

Moderator: Shweta Bhatt, MD

Speakers: Corinne Deurdulian, MD, Hamad Ghazle, EdD, APS, RDMS

Hands-on Faculty: Nami Azar, MD, Wui Chong, MD, Corinne Deurdulian, MD, Vikram Dogra, MD, Hamad Ghazle, EdD, APS, RDMS, Edward Grant, MD, Mark Lockhart, MD, MPH, Deborah Rubens, MD, Ruth Schaefer, BS, RDMS, RVT, Leslie Scoutt, MD, Ravinder Sidhu, MD, Patricia Soto, RDMS

After attending this session, participants will be able to describe prebiopsy preparations, use and have hands-on experience with the techniques of doing biopsies of soft tissue masses, thyroid nodules, breast masses, the liver, and kidneys, and recognize and manage complications.

EMCC Point-of-Care Ultrasonography in the Management of the Hypotensive Patient

Moderator: Eitan Dickman, MD, RDMS

Speakers: Gerardo Chiricolo, MD, Romolo Gaspari, MD, PhD, RDMS, David Riley, MD, MSc, RDMS, RDCS, RVT, RMSK

On completion of this session, participants should be able to: (1) evaluate patients for the suspected causes of hypotension that are amenable to diagnosis using ultrasonography; and (2) incorporate sonographic findings into overall fluid status assessment.

PEDS Problem-Oriented Pediatric Ultrasound

Moderator: Harris L. Cohen, MD

Speakers: Harris L. Cohen, MD, Lynn Fordham, MD, Steven Kraus, MD, Harriet Paltiel, MD

The objective of this session is to review current methods and thinking in assessing various pediatric conditions diagnosed by ultrasound and presenting to clinicians as given body area complaints.

BSI Ultrasound Research Systems

Moderators: Nicolas Rognin, PhD, Thaddaus Wilson, PhD, DABR

Speakers: Jeremy Bercoff, PhD, Ronald Daigle, PhD, Kris Dickie, Jean-Marital Mari, PhD, Glen McLaughlin, PhD, David Mills, PhD, Nicolas Rognin, PhD

On completion of this session, participants should be able to describe the basic concepts of ultrasound research systems and know research institutions/companies offering such solutions.

CARDIO Vascular Emergencies: Diagnostic Imaging and Interventions

Moderator: John Blebea, MD, MBA

Speakers: Richard Fowl, MD, Gowthaman Gunabushanam, MD, Laurence Needleman, MD, Margarita Revzin, MD, MS

The objectives of this session are to: (1) review duplex imaging for the diagnosis and treatment of arterial pseudoaneurysms; (2) examine the usefulness of noninvasive and ultrasound testing for acute upper and lower extremity arterial ischemia; and (3) discuss the techniques of ultrasound examinations for intra-abdominal vascular emergencies.

8:15 AM–10:15 AM

GYN Three- and Four-Dimensional Volume Data Set Manipulation: Gynecology

Earn up to 2.0 AMA PRA Category 1 Credits™
(accepted by the ARDMS) or ARRT Category A Credits.

GE Healthcare Faculty: Deborah D'Agostini, RDMS, Todd Duetch, MD, Sharon Horton, RT, RDMS, Cheryl Vance, MA, RT, RDMS, RVT

Philips Healthcare Faculty: William Brown, MD, Elise Housman, BS, RDMS

This session will be used to introduce laptop-based handling of 3-dimensional (3D) software and provide guided assistance to improve 3D ultrasound-based diagnostic skills.

(continued)

10:15 AM–11:00 AM

Refreshment Break in the Exhibit Hall

10:15 AM–11:00 AM

Community Meetings

Earn up to 0.75 AMA PRA Category 1 Credits™
(accepted by the ARDMS) or ARRT Category A Credits.

CARDIO Cardiovascular Ultrasound

CEUS Contrast-Enhanced Ultrasound

IVIO Interventional-Intraoperative Ultrasound

10:30 PM–12:30 PM

ALL **Accreditation Tutorial**

Earn up to 2.0 AMA PRA Category 1 Credits™
(accepted by the ARDMS) or ARRT Category A Credits.

Speaker: Therese Cooper, BS, RDMS

Learn about AIUM standards for examination protocols, personnel, quality assurance, record keeping, safety, and physical facilities. This workshop incorporates a hands-on session that shows the individual how to fill out the online application, upload images, and apply for accreditation.

10:30 AM–12:30 PM

OB **Three- and Four-Dimensional
Volume Data Set Manipulation:
Obstetrics**

Earn up to 2.0 AMA PRA Category 1 Credits™
(accepted by the ARDMS) or ARRT Category A Credits.

*GE Healthcare Faculty: Deborah D'Agostini, RDMS,
Margaret Carr, MD, Sharon Horton, RT, RDMS,
Cheryl Vance, MA, RT, RDMS, RVT*

Philips Healthcare Faculty: Luís Gonçalves, MD

This session will be used to introduce laptop-based handling of 3-dimensional (3D) software and provide guided assistance to improve 3D ultrasound-based diagnostic skills.

11:00 AM–12:30 PM

Special Interest Session

Earn up to 1.5 AMA PRA Category 1 Credits™
(accepted by the ARDMS) or ARRT Category A Credits.

ALL **Conducting Ultrasound Research and
Getting it Published**

Moderator/Speaker: Mark Lockhart, MD, MPH

The objectives of this session are to describe why research needs to be conducted, to list the steps needed for participants to promote themselves as researchers, to help attendees understand the basics of conducting useful research, and to describe how to formulate research results into a publishable framework.

11:00 AM–12:30 PM

Scientific Sessions

Earn up to 1.5 AMA PRA Category 1 Credits™
(accepted by the ARDMS) or ARRT Category A Credits.

Learn about the latest research in ultrasound in concise oral presentations.

12:30 PM–1:30 PM

Lunch in the Exhibit Hall

1:00 PM–3:00 PM

OB **Three- and Four-Dimensional
Volume Data Set Manipulation:
Obstetrics**

Earn up to 2.0 AMA PRA Category 1 Credits™
(accepted by the ARDMS) or ARRT Category A Credits.

*GE Healthcare Faculty: Deborah D'Agostini, RDMS,
Sharon Horton, RT, RDMS, Julia Solomon, MD,
Cheryl Vance, MA, RT, RDMS, RVT*

Philips Healthcare Faculty: Luís Gonçalves, MD

This session will be used to introduce laptop-based handling of 3-dimensional (3D) software and provide guided assistance to improve 3D ultrasound-based diagnostic skills.

(continued)

1:30 PM–3:15 PM

Special Interest Session

Earn up to 2.0 AMA PRA Category 1 Credits™
(accepted by the ARDMS) or ARRT Category A Credits.

PEDS Hands-on Pediatric Ultrasound

Moderator: William Shiels, DO

Hands-on Faculty: To be announced

Through hands-on techniques, this session will teach participants how to do several diagnostic and therapeutic pediatric ultrasound procedures.

1:30 PM–3:30 PM

Special Interest Sessions

Earn up to 2.0 AMA PRA Category 1 Credits™
(accepted by the ARDMS) or ARRT Category A Credits.

CEUS Abdominal and Pelvic Pain in the Emergency Room

Moderator: Leslie Scoutt, MD

Speakers: Oksana Baltarowich, MD, Ulrike Hamper, MD, MBA, Deborah Rubens, MD, James Shwayder, MD, JD

This session will provide a better definition of sonographic hallmarks one encounters in emergency room patients.

CEUS Clinical Applications of Ultrasound Contrast, Part 2

Moderator: Arthur C. Fleischer, MD

Speakers: Jean Ayoub, MD, PhD, MS, Nitin Chaubal, MD, DMRD, FICR, Paul Sidhu, BSc, Stephanie Wilson, MD

With an international panel of experts in contrast-enhanced ultrasound (CEUS) presenting, participants will gain insight into the use of CEUS for daily clinical practice. Topics that will be covered include inflammatory bowel disease, scrotal imaging, liver and renal transplants, and applications in gynecology.

FE First-Trimester Fetal Cardiac Imaging

Moderator: Reem Abu-Rustum, MD

Speakers: Alfred Abuhamad, MD, Reem Abu-Rustum, MD, Liat Gindes, MD, Lisa Hornberger, MD, Yaron Zalel, MD

The objective of this session is to present the indications, techniques, and performance of fetal echocardiography in the first trimester.

G&A Head and Neck Ultrasound

Moderator: Wui Chong, MD

Speakers: Wui Chong, MD, David Goldenberg, MD, Kathryn Robinson, MD, Jason Wagner, MD

On completion of this session, participants should be able to recognize pathology in neck lymph nodes, salivary glands, and the thyroid.

EMCC New Horizons in Critical Care Ultrasound

Moderator: Eitan Dickman, MD, RDMS

Speakers: Robert Arntfield, MD, RDMS, Stephen Leech, MD, RDMS, Scott Millington, MD, Mark Tessaro, MD

On completion of this session, participants should be able to discuss recent advances in the use of point-of-care sonography in the management of critically ill patients. This will include: (1) the use of transesophageal echocardiography; (2) thoracic sonography in the diagnosis and management of these patients; and (3) the use of sonography in the confirmation of proper endotracheal tube placement.

PEDS Sonographic Evaluation of the Brachial Plexus and Related Problems: Making Sense of the Brachial Plexus

Moderator: Michael Di Pietro, MD

Speakers: Michael Di Pietro, MD, Levon Nazarian, MD, Andrew Zbojnowicz, MD

In this session, participants will learn to find and identify the brachial plexus and its components and learn uses in preoperative assessment for repair of perinatal brachioplexopathy, assessing thoracic outlet impingement, and locating sites for nerve blocks.

3:30 PM–4:00 PM

Refreshment Break in the Exhibit Hall

3:30 PM–5:30 PM

ALL Accreditation Tutorial

Earn up to 2.0 AMA PRA Category 1 Credits™
(accepted by the ARDMS) or ARRT Category A Credits.

Speaker: Therese Cooper, BS, RDMS

Learn about AIUM standards for examination protocols, personnel, quality assurance, record keeping, safety, and physical facilities. This workshop incorporates a hands-on session that shows the individual how to fill out the online application, upload images, and apply for accreditation.

(continued)

3:30 PM–5:30 PM

FE **Three- and Four-Dimensional Volume Data Set Manipulation: Fetal Echocardiography**

Earn up to 2.0 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

GE Healthcare Faculty: Deborah D'Agostini, RDMS, Gregory DeVore, MD, Sharon Horton, RT, RDMS, Cheryl Vance, MA, RT, RDMS, RVT

Philips Healthcare Faculty: Leeber Cohen, MD

This session will be used to introduce laptop-based handling of 3-dimensional (3D) software and provide guided assistance to improve 3D ultrasound-based diagnostic skills.

3:45 PM–5:30 PM

Special Interest Session

Earn up to 1.75 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

PEDS **Hands-on Pediatric Ultrasound**

Moderator: William Shiels, MD

Hands-on Faculty: To be announced

Through hands-on techniques, this session will teach participants how to do several diagnostic and therapeutic pediatric ultrasound procedures.

4:00 PM–5:30 PM

Film Panel Sessions

Earn up to 1.5 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

GYN **Gynecologic Unknowns**

Moderator: Ilan E. Timor-Tritsch, MD

Panelists: Ana Monteagudo, MD, RDMS, Ilan E. Timor-Tritsch, MD

This session will present interesting and challenging gynecologic cases.

EMCC **Challenging Thoracic Sonography Cases**

Moderator: Bret Nelson, MD, RDMS

Panelists: David Riley, MD, MSc, RDMS, RDCS, RVT, RMSK, James Tsung, MD, MPH

On completion of this session, participants should recognize the sonographic appearance of a variety of thoracic disease states, including congestive heart failure, pneumonia, chronic obstructive pulmonary disease, asthma, bronchiolitis, atelectasis, hemothorax, pleural effusion, and empyema.

4:00 PM–5:30 PM

Special Interest Sessions

Earn up to 1.5 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

FE **Basic Cardiac Screening: How to Acquire/ Interpret the Required Views**

Moderator: Wesley Lee, MD

Speakers: Miwa Geiger, MD, Luís Gonçalves, MD, Wesley Lee, MD, Lynn Simpson, MD, MSc

The objective of this session is to review basic cardiac screening done during routine obstetric ultrasound examinations.

BSI **Basic Science and Preclinical Applications of Ultrasound Contrast**

Moderator: Andrej Lyshchik, MD, PhD

Speakers: Peter Burns, PhD, Flemming Forsberg, PhD, Christy Holland, PhD, Kenneth Hoyt, PhD, MBA, Nathalie Lassau, MD, PhD, Robert Mattrey, MD

On completion of this course, participants will understand new developments in contrast-enhanced ultrasound and gain an understanding of developments in animal/in vitro ultrasound and preclinical research.

4:00 PM–5:30 PM

Scientific Sessions

Earn up to 1.5 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

Learn about the latest research in ultrasound in concise oral presentations.

4:00 PM–5:30 PM

Community Meeting

Earn up to 1.5 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

G&A **General and Abdominal Ultrasound**

Convention | Wednesday, April 2, 2014

7:00 AM–8:00 AM

Just Images and Comprehensive Refresher Sessions

Earn up to 1.0 AMA PRA Category 1 Credit™ (accepted by the ARDMS) or ARRT Category A Credit.

CEUS Clinical Applications of Contrast-Enhanced Ultrasound

Moderator: Ulrike Hamper, MD, MBA

Speakers: Edward Grant, MD, Michelle Robbin, MD, MS

On completion of this session, participants will understand how contrast can be used off label today and how contrast-enhanced ultrasound can be integrated into daily practice as a problem-solving tool in liver and renal imaging.

GYN Gynecologic Sonography in the Infertility Patient

Moderator/Speaker: Misty Blanchette Porter, MD

This session will provide better tools and findings for patients with infertility.

EMCC Just Images: Applications of Musculoskeletal Ultrasound in the Emergency Department

Moderator: Levon Nazarian, MD

Speakers: Alice Ha, MD, Levon Nazarian, MD

This session will describe the ultrasound appearance of common musculoskeletal injuries.

PEDS Just Images: Perinatal Ultrasound and Neonatal Correlations

Moderator: Harris L. Cohen, MD

Speakers: Carol Barnewolt, MD, Maria Calvo-Garcia, MD, Harris L. Cohen, MD

This session will teach participants the ultrasound appearances of fetal and neonatal cases and their correlations with magnetic resonance imaging of a fetus and other imaging of a neonate in making diagnoses.

CARDIO Just Images: Transcranial Doppler Ultrasound

Moderator: Jennifer McDowell, MM, RVT, RDMS, RT

Speakers: Zsolt Garami, MD, Mary Beth McCarville, MD

This session will review the use of transcranial Doppler ultrasound in the evaluation of cerebral vascular disease.

IVIO New Techniques/New Materials in Ultrasound Procedures

Moderator: Corinne Deurdulian, MD

Speakers: John McGahan, MD, Hisham Tchelepi, MD

After attending this session, participants will be able to understand the newer techniques using ultrasound and computed tomographic fusion and ultrasound and magnetic resonance imaging fusion and understand and become familiar with the newer needles and catheters and various kits used currently for biopsy.

8:15 AM–10:15 AM

Special Interest Sessions

Earn up to 2.0 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

THERA Beneficial Bubbles: The Role of Ultrasound Contrast Agents in Therapy

Moderators: Christy Holland, PhD, Michael Oelze, PhD

Speakers: Gregory Czarnota, MD, PhD, Cheri Deng, PhD, Elisa Konofagou, PhD, Thomas Porter, MD, Tyrone Porter, PhD

The objective of the session is to provide the audience with the latest developments in the use of microbubbles (ie, ultrasound contrast agents) for therapy purposes. Leaders in the field of ultrasound and microbubble-based therapeutic applications will discuss their latest research findings and the future of microbubble-based therapies.

CEUS Contrast-Enhanced Ultrasound in Children: The European and US Experience

Moderator: Mary Beth McCarville, MD

Speakers: Kassa Darge, MD, PhD, Jonathan Dillman, MD, Zoltan Harkanyi, MD, Martin Stenzel, MD

Contrast-enhanced ultrasound (CEUS) in children is not routinely performed in the United States but has been used extensively in Europe. Investigators in the United States are now initiating clinical trials in the setting of trauma, oncology, and urology to employ CEUS in an effort to reduce radiation exposure in this vulnerable population. This session will educate physicians and sonographers about the safety and efficacy of CEUS in the pediatric population. We will draw on the expertise of European radiologists and present the current status of pediatric CEUS in the United States.

(continued)

EMCC Head and Neck Ultrasound

Moderator: Bret Nelson, MD, RDMS

*Speakers: Srikar Adhikari, MD, MS, RDMS,
Christian Butcher, MD, Richard Calderon, BS, OD,
Gerardo Chiricolo, MD*

On completion of this session, participants will be able to: (1) describe a variety of clinical situations where ultrasound may aid diagnosis of head and neck pathology; (2) recognize normal and abnormal sonographic anatomy of the orbits, head, and neck; and (3) place ultrasound evaluation in context with other physical examination and imaging modalities.

GLOBAL Lecture Series: Global Health

Moderator: Sachita Shah, MD

*Speakers: Daniel Kaminstein, MD, Adam Levine, MD, MPH,
Sachita Shah, MD*

This session will cover the following topics: (1) international ultrasound research: metrics, outcomes, and funding strategies for success; (2) equipment options for ultrasound in low-resource settings; and (3) case presentations of ultrasound uses in developing countries.

G & A Scrotal Ultrasound

Moderator: Vikram Dogra, MD

*Speakers: Nirvikar Dahiya, MD, Corinne Deurdulian, MD,
Vikram Dogra, MD, Cindy Rapp, RDMS*

The objectives of this session are to introduce the basics of scrotal ultrasound and show different pathologies occurring in the scrotum.

CARDIO Venous Ablation Interventions: Duplex Imaging Before, During, and After the Procedure

Moderator: John Blebea, MD, MBA

*Speakers: John Blebea, MD, MBA, Joshua Cruz, RVT, RDMS,
Jennifer McDowell, MM, RVT, RDMS, RT, Robert
Merchant, MD, Patricia Thorpe, MD*

The objectives of this session are to: (1) update physicians and sonographers on the proper evaluation of patients with varicose veins and venous reflux; (2) review duplex imaging techniques during venous ablation procedures; and (3) discuss postprocedural evaluation and identification of complications.

GYN Wheel of Fortune: Proper Obstetric/ **OB** Gynecologic Ultrasound Coding

Moderators: Andrew Helfgott, MD, James Shwayder, MD, JD

Speakers: Andrew Helfgott, MD, James Shwayder, MD, JD

(1) With the complexity and different types of imaging in obstetrics, sonologists require an accurate understanding of proper coding and reimbursement. (2) Learn the "how to" when the sonologist performs a consultation in addition to ultrasound. (3) Coding case scenarios with audience participation will be presented. (4) Understand how to code for antepartum testing and invasive fetal procedures.

8:15 AM–10:15 AM

Community Meeting

Earn up to 2.0 AMA PRA Category 1 Credits™
(accepted by the ARDMS) or ARRT Category A Credits.

FE Fetal Echocardiography

10:15 AM–11:00 AM

Refreshment Break in the Exhibit Hall

10:15 AM–11:00 AM

Community Meeting

Earn up to 0.75 AMA PRA Category 1 Credits™
(accepted by the ARDMS) or ARRT Category A Credits.

THERA Therapeutic Ultrasound

11:00 AM–12:30 PM

Scientific Sessions

Earn up to 1.5 AMA PRA Category 1 Credits™
(accepted by the ARDMS) or ARRT Category A Credits.

Learn about the latest research in ultrasound in concise oral presentations.

12:30 PM–1:30 PM

Lunch in the Exhibit Hall

1:30 PM–3:30 PM

Just Images Session

Earn up to 2.0 AMA PRA Category 1 Credits™
(accepted by the ARDMS) or ARRT Category A Credits.

GYN Just Images With Ultrasound Correlation in Office Procedures and for Guidance in the Operating Room

Moderator: James Shwayder, MD, JD

*Speakers: William Brown, MD, Elizabeth Puscheck, MD, MS,
James Shwayder, MD, JD*

This session will discuss uses of gynecologic sonography in the office and operating room.

(continued)

1:30 PM–3:30 PM

Special Interest Sessions

Earn up to 2.0 AMA PRA Category 1 Credits™
(accepted by the ARDMS) or ARRT Category A Credits.

THERA

Magnetic Resonance Imaging–Guided Focused Ultrasound and Its Clinical Applications for Uterine Fibroids, Bone Metastasis, and Hemostasis

Moderators: Gregory Czarnota, MD, PhD, J. Brian Fowlkes, PhD, Maggie Zhang, MD, PhD

Speakers: To be announced

The objective of this session is to update clinicians, engineers, and basic scientists on the current therapeutic applications of magnetic resonance imaging–guided focused ultrasound and to present future directions for this technology.

OB

Multiple Gestations

Moderators: Lauren Ferrara, MD, Joanne Stone, MD

Speakers: Lauren Ferrara, MD, Manisha Gandhi, MD, James Goldberg, MD, Joanne Stone, MD

The objectives of this session are to: (1) learn how to follow the patient with a multiple gestation; (2) describe chorionicity and amnionicity accurately; and (3) learn about common complications of multiple gestations.

NEURO

Neuroanatomic Syllabus for Perinatal and

OB

Pediatric Sonographers: We Should See

PEDS

What We're Missing

Moderator: David Jackson, MD

Speakers: David Jackson, MD, David Mirsky, MD, Ana Monteagudo, MD, RDMS, James Pennington, RDMS

At the end of this session, participants will be able to: (1) understand the anatomic basis of multidimensional imaging necessary for fetal and pediatric neurosonography; (2) identify the most pertinent neuroanatomy necessary to advance your central nervous system (CNS) sonography skills; (3) review the newest digital technology of fetal and pediatric brain tractography and develop ultrasound correlates of diffusion neurotractography at different stages of CNS development; (4) discuss how to personally adapt different models of learning to help remove neurophobia for sonologists and sonographers; (5) identify examples of “hidden” neuroanatomy still waiting to be sonographically discovered; and (6) discuss the fetal origin of structural pediatric CNS diseases.

EMCC

Teaching and Assessing Point-of-Care Ultrasonography

Moderator: Resa Lewiss, MD, RDMS

Speakers: David Bahner, MD, RDMS, Richard Hoppmann, MD, Vicki Noble, MD, RDMS, Jason Nomura, MD, RDMS

On completion of this session, participants should be able to discuss current methods of teaching point-of-care ultrasonography, which will include: (1) curriculum design; (2) teaching learners from a variety of backgrounds, including different levels of training and different specialties; and (3) ultrasound competency assessment.

3:30 PM–4:00 PM

Refreshment Break in the Exhibit Hall

4:00 PM–5:30 PM

Film Panel Sessions

Earn up to 1.5 AMA PRA Category 1 Credits™
(accepted by the ARDMS) or ARRT Category A Credits.

FE

Cardiac Unknowns

Moderator: Mark Sklansky, MD

Speakers: Sandra Hagen-Ansert, RDMS, Lisa Hornberger, MD, Anita Moon-Grady, MD, Jay Pruetz, MD, Mark Sklansky, MD, Julia Solomon, MD

The objective of this session is to present prenatal studies of the fetal heart to determine normal versus abnormal cardiac findings.

G & A

Missing Cases

Moderator: Salvatore LaRusso, MEd, RDMS, RT(R)

Speakers: Shweta Bhatt, MD, Salvatore LaRusso, MEd, RDMS, RT(R), Mark Lockhart, MD

In this session, participants will see why certain ultrasound cases are misdiagnosed and how to prevent it.

4:00 PM–5:30 PM

Scientific Sessions

Earn up to 1.5 AMA PRA Category 1 Credits™
(accepted by the ARDMS) or ARRT Category A Credits.

Learn about the latest research in ultrasound in concise oral presentations.

2014 AIUM Annual Convention and Preconvention Program Registration Form



Instructions

- Registration fees are payable with submission of this form.
Registration CANNOT be processed without payment.
- Make checks payable to AIUM in US funds only.
- Registrations will be accepted by mail until February 26, 2014.
- Registrations will be accepted online and by fax until March 19, 2014.
- After March 19, 2014, attendees must register on-site.
- Registered guests/spouses will be allowed access to the Exhibit Hall only.

Register online at www.aium.org.

Contact Information

AIUM Membership ID # _____

First Name _____

Last Name _____

Degrees/Credentials _____

Medical Board Certification(s) _____

Name of Guest/Spouse _____

Street Address _____

City _____

State/Province _____

Country _____

Postal Code _____

Daytime Telephone # _____

Fax _____

E-mail _____

Name of Emergency Contact _____

Emergency Contact's Telephone # _____

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Forms received without full payment will not be processed.

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Credit Card Billing Address Postal Code _____

Exp Date _____ Card Security Code _____
(3- or 4-digit number printed on the card or signature strip)

Signature _____

The AIUM reserves the right to charge credit cards with the correct amount if different from the total listed.

Refunds

Cancellations received by January 15, 2014, will receive a refund of meeting registration fees minus a \$75 administrative fee. Cancellations received after January 15, 2014, will not receive a refund. Written cancellations must be received by the AIUM via fax or mail.

Not an AIUM Member?

Explore member benefits online at www.aium.org.

1. Preconvention Program Registration

Saturday, March 29

Full-Day Courses 7:30 AM–5:00 PM Please select 1.

- ☐ Comprehensive Review of Musculoskeletal Ultrasound
- ☐ Hands-on Obstetric Ultrasound, Fetal Cardiac Screening, and Simulation

Please select 1.	On or Before 3/3/14	After 3/3/14
AIUM Member Physician	☐ \$350	☐ \$400
AIUM Member Nonphysician	☐ \$275	☐ \$325
Student/Resident/Fellowship Member	☐ \$250	☐ \$250
Nonmember	☐ \$650	☐ \$700

Morning Half-Day Courses 7:30 AM–11:30 AM Please select 1.

- ☐ Fetal Evaluation in the First Trimester: Where Are We Going?
- ☐ Ultrasound of the Critically Ill Child

Please select 1.	On or Before 3/3/14	After 3/3/14
AIUM Member Physician	☐ \$175	☐ \$225
AIUM Member Nonphysician	☐ \$135	☐ \$185
Student/Resident/Fellowship Member	☐ \$125	☐ \$125
Nonmember	☐ \$350	☐ \$400

Afternoon Half-Day Courses 1:00 PM–5:00 PM Please select 1.

- ☐ Advances in 3-Dimensional Obstetric and Gynecologic Ultrasound
- ☐ Elastography: State of the Art, 2014
- ☐ Thoracic Ultrasound in the Emergency and Critical Care Patient

Please select 1.	On or Before 3/3/14	After 3/3/14
AIUM Member Physician	☐ \$175	☐ \$225
AIUM Member Nonphysician	☐ \$135	☐ \$185
Student/Resident/Fellowship Member	☐ \$125	☐ \$125
Nonmember	☐ \$350	☐ \$400

1. Subtotal \$ _____

2. Annual Convention Registration

Sunday, March 30–Wednesday, April 2

Please select 1.	On or Before 3/3/14	After 3/3/14
AIUM Member Physician	☐ \$900	☐ \$1000
AIUM Member Nonphysician	☐ \$800	☐ \$900
Student/Resident/Fellowship Member	☐ \$375	☐ \$375
Nonmember Physician*	☐ \$1195	☐ \$1295
Nonmember Nonphysician*	☐ \$955	☐ \$1055
Guest/Spouse	☐ \$100	

Abstract presenters (excluding student/resident/fellowship presenters) receive a \$100 discount.

*Nonmember convention registration fee includes a 1-year AIUM membership.

Hands-on Special Interest Session Preregistration

The cost for these courses is \$50 each, and registration is limited. The courses run concurrently with other Special Interest sessions. Please check boxes if you would like to sign up for these courses.

The Pediatric Ultrasound session (T3) from 3:45 PM–5:30 PM is a repeat of the Pediatric Ultrasound session (T2) from 1:30 PM–3:15 PM. See page 4 for details.

☐ S1 ☐ S2 ☐ M1 ☐ M2 ☐ T1 ☐ T2 ☐ T3

2. Subtotal \$ _____

3. Three- and Four-Dimensional Volume Data Set Manipulation Tuesday, April 1

Please indicate first and second choices of sessions and first and second choices of machines. \$30 per session. The obstetrics session from 1:00 PM–3:00 PM is a repeat of the obstetrics session from 10:30 AM–12:30 PM.

Sessions	GE	Philips
Gynecology (8:15 AM–10:15 AM)	_____	_____
Obstetrics (10:30 AM–12:30 PM)	_____	_____
Obstetrics (1:00 PM–3:00 PM)	_____	_____
Fetal Echocardiography (3:30 PM–5:30 PM)	_____	_____

If your preferred choices are not available, do you want us to assign you to another participating company? ☐ Yes ☐ No (You will not be charged if you are not assigned.)

3. Subtotal \$ _____

Total Event Payment Add items 1 through 3 \$ _____

Three Easy Ways to Register

- Online www.aium.org
- Fax 301-498-4450
- Mail American Institute of Ultrasound in Medicine
2014 Annual Convention
14750 Sweitzer Ln, Suite 100
Laurel, MD 20707-5906 USA

Questions?
Call 800-638-5352
or 301-498-4100.