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Imagination at work.
Table of Contents

Schedule at a Glance .................................................. 2
Included With Your Convention Registration ...................... 3
General Information .................................................. 4
   Hands-on Special Interest Sessions .............................. 4
   Symbol Key ...................................................... 5
Special Interest Tracks ............................................... 6
Community and Committee Meeting Schedules .................... 8
Case-of-the-Day Challenges ......................................... 9
CME Credit Information ............................................. 10
Educational Opportunities ........................................... 11
Commercial Support Disclosures .................................. 12
AIUM Leadership .................................................... 13
   2014 Annual Convention Committee ........................... 13
   Caesars Palace Las Vegas Hotel Floor Plans .................. 14
   2014 Convention Mobile App Information ..................... 15
How to Print Your CME Certificate ................................ 16

Preconvention Program • Saturday, March 29
Day at a Glance .................................................... 17
Saturday Convention Program ..................................... 18

Convention • Sunday, March 30
Day at a Glance .................................................... 21
Sunday Convention Program ...................................... 22
Opening/Awards Session ........................................... 24

Convention • Monday, March 31
Day at a Glance .................................................... 31
Monday Convention Program ...................................... 32

Convention • Tuesday, April 1
Day at a Glance .................................................... 45
Tuesday Convention Program ...................................... 46
New Investigator Award Session ................................... 52

Convention • Wednesday, April 2
Day at a Glance .................................................... 61
Wednesday Convention Program .................................. 62

E-Posters
E-Poster Hours .................................................... 73
E-Posters ........................................................... 74

Exhibit Information
Exhibit Hall Hours ................................................... 81
Exhibit Hall Floor Plan .............................................. 82
2014 Exhibitors By Booth Number ................................ 83
2014 Exhibitors Listed Alphabetically ............................ 84
Exhibitor Profiles ................................................... 85
## Schedule at a Glance

### Friday, March 28, 2014
1. **3:00 PM–4:00 PM**  
   - Output Standards Subcommittee Meeting
2. **7:00 PM–9:00 PM**  
   - International Electrotechnical Commission Subcommittee Meeting

### Saturday, March 29, 2014
1. **6:30 AM–5:00 PM**  
   - Preconvention Program Registration Open
2. **7:00 AM–7:30 AM**  
   - Preconvention Program Breakfast
3. **7:30 AM–5:00 PM**  
   - Preconvention Program
4. **8:00 AM–2:00 PM**  
   - Bioeffects Committee Meeting
5. **12:00 PM–5:00 PM**  
   - Finance and Executive Committee Meeting
6. **2:00 PM–6:00 PM**  
   - Technical Standards Committee Meeting
7. **5:00 PM–6:30 PM**  
   - Presidential Reception for New Members and Leadership (by invitation only)

### Sunday, March 30, 2014
1. **7:00 AM–4:00 PM**  
   - Convention Registration Open
2. **7:00 AM–8:00 AM**  
   - Just Images and Comprehensive Refresher Sessions
3. **8:00 AM–9:00 AM**  
   - Convention Registration Open
4. **9:30 AM–4:30 PM**  
   - Exhibit Hall Open
5. **9:30 AM–4:30 PM**  
   - E-Posters Open for Viewing

### Monday, March 31, 2014
1. **6:30 AM–4:00 PM**  
   - Convention Registration Open
2. **6:30 AM–10:15 AM**  
   - Coffee Service in Registration Area/Exhibit Hall
3. **7:00 AM–8:00 AM**  
   - Just Images and Comprehensive Refresher Sessions
4. **8:00 AM–9:30 AM**  
   - Convention Registration Open
5. **9:30 AM–4:30 PM**  
   - Exhibit Hall Open
6. **9:30 AM–4:30 PM**  
   - E-Posters Open for Viewing

### Tuesday, April 1, 2014
1. **5:30 PM–6:30 PM**  
   - Basic Science and Instrumentation Community Meeting
2. **7:00 PM–11:00 PM**  
   - Leadership Banquet (by invitation only)

### Wednesday, April 2, 2014
1. **7:00 AM–10:15 AM**  
   - Coffee Service in Registration Area/Exhibit Hall
2. **10:15 AM–11:00 AM**  
   - Refreshment Break in the Exhibit Hall
3. **12:30 PM–1:30 PM**  
   - Lunch in the Exhibit Hall
4. **3:30 PM–5:30 PM**  
   - Film Panel Sessions
5. **4:00 PM–5:30 PM**  
   - Scientific Sessions
Included With Your Convention Registration

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 at the AIUM Resource Center 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 at the Accreditation Tutorial to learn how easy and how important it is to have your practice accredited.

Exhibits
• Visiting more than 40 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
• Coffee and tea in the AIUM registration area each morning.
• Lunch daily in the Exhibit Hall.
• Six refreshment breaks with beverages and 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 to create 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

Registration Hours
Octavius Ballroom • Promenade South
Saturday, March 29
6:30 AM–5:00 PM
Sunday, March 30
7:00 AM–4:30 PM
Monday, March 31
6:30 AM–4:30 PM
Tuesday, April 1
6:30 AM–4:30 PM
Wednesday, April 2
7:00 AM–4:30 PM

Exhibit and Press Registration Hours
Registration Area • Octavius Ballroom • Promenade South
Saturday, March 29
8:00 AM–5:00 PM
Sunday, March 30
8:00 AM–5:00 PM
Monday, March 31
9:00 AM–5:00 PM
Tuesday, April 1
9:00 AM–5:00 PM
Wednesday, April 2
9:00 AM–5:00 PM

Speaker Ready Room
Pisa • Promenade Level
Saturday, March 29
6:00 AM–5:00 PM
Sunday, March 30
7:00 AM–5:30 PM
Monday, March 31
6:30 AM–5:30 PM
Tuesday, April 1
6:30 AM–5:30 PM
Wednesday, April 2
6:30 AM–5:30 PM

Exhibit Hall Hours
Exhibit Hall • Octavius Ballroom • Promenade South
Sunday, March 30
11:30 AM–4:30 PM
Grand Opening Luncheon
11:30 AM–1:00 PM
Monday, March 31
9:30 AM–4:30 PM
Coffee Service
9:30 AM–10:15 AM
Refreshment Break
10:15 AM–11:00 AM
Lunch
12:30 PM–1:30 PM
Refreshment Break
3:30 PM–4:00 PM
Tuesday, April 1
9:30 AM–4:30 PM
Coffee Service
9:30 AM–10:15 AM
Refreshment Break
10:15 AM–11:00 AM
Lunch
12:30 PM–1:30 PM
Refreshment Break
3:30 PM–4:00 PM
Wednesday, April 2
9:30 AM–4:30 PM
Coffee Service
9:30 AM–10:15 AM
Refreshment Break
10:15 AM–11:00 AM
Lunch
12:30 PM–1:30 PM
Refreshment Break
3:30 PM–4:00 PM

AIUM Resource Center Hours
Registration Area • Octavius Ballroom • Promenade South
Saturday, March 29
8:00 AM–4:30 PM
Sunday, March 30
8:00 AM–4:30 PM
Monday, March 31
8:00 AM–4:30 PM
Tuesday, April 1
8:00 AM–4:30 PM
Wednesday, April 2
8:00 AM–4:30 PM

AIUM Office Hours
Messina • Promenade Level
Saturday, March 29
7:30 AM–4:30 PM
Sunday, March 30
7:30 AM–4:30 PM
Monday, March 31
7:30 AM–4:30 PM
Tuesday, April 1
7:30 AM–4:30 PM
Wednesday, April 2
7:30 AM–4:30 PM

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 pediatric ultrasound. The cost for these sessions is $50 each. Space is limited.

<table>
<thead>
<tr>
<th>Session</th>
<th>Date</th>
<th>Time</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>S1</td>
<td>Sunday, March 30</td>
<td>1:00 PM–3:00 PM</td>
<td>Musculoskeletal Ultrasound</td>
</tr>
<tr>
<td>S2</td>
<td>Sunday, March 30</td>
<td>3:15 PM–5:00 PM</td>
<td>Ultrasound-Guided Nerve Blocks</td>
</tr>
<tr>
<td>M1</td>
<td>Monday, March 31</td>
<td>8:15 AM–10:15 AM</td>
<td>Carotid and Transcranial Doppler Ultrasound</td>
</tr>
<tr>
<td>M2</td>
<td>Monday, March 31</td>
<td>1:30 PM–3:30 PM</td>
<td>Elastography</td>
</tr>
<tr>
<td>T1</td>
<td>Tuesday, April 1</td>
<td>8:15 AM–10:15 AM</td>
<td>How to Do the Biopsy</td>
</tr>
<tr>
<td>T2</td>
<td>Tuesday, April 1</td>
<td>1:30 PM–3:15 PM</td>
<td>Pediatric Ultrasound</td>
</tr>
<tr>
<td>T3</td>
<td>Tuesday, April 1</td>
<td>3:45 PM–5:30 PM</td>
<td>Pediatric Ultrasound</td>
</tr>
</tbody>
</table>
**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.

**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.

**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.

**Smoking Policy**

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

**Need Help?**

If you have questions about the convention, look for the blue shirts. The AIUM staff will be wearing these shirts Saturday, March 29, through Wednesday, April 2.

**Cell Phones**

As a courtesy to your fellow convention attendees and faculty, we ask that you please silence your cell phone or place it on vibrate during the educational sessions.

**Hotel Information**

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

Although many organizations and associations use an outside travel agency to negotiate contracts, the AIUM negotiates its own contracts, and any discounts are paid directly to the AIUM. Income from discounts allows the AIUM to offset expenses and provide enhanced services to attendees.

---

**Symbol Key**

- Hands-on Special Interest Sessions (A ticket is required for these course)
- Videotaped Sessions That Will Be Available for Purchase in DVD Format Later This Year
- Endowment for Education and Research Grant Recipient

**Special Interest Tracks**

- **GYN**
  - Gynecologic Ultrasound
- **HIFI**
  - High-Frequency and Clinical and Preclinical Imaging
- **BSI**
  - Basic Science and Instrumentation
- **CARDIO**
  - Cardiovascular Ultrasound
- **CEUS**
  - Contrast-Enhanced Ultrasound
- **ELAST**
  - Elastography
- **EMCC**
  - Emergency and Critical Care Ultrasound
- **FE**
  - Fetal Echocardiography
- **SSA**
  - General and Abdominal Ultrasound
- **GYM**
  - Gynecologic Ultrasound
- **HIFI**
  - High-Frequency and Clinical and Preclinical Imaging
- **DVD**
  - Interventional-Intraoperative Ultrasound
- **MAK**
  - Musculoskeletal Ultrasound
- **NEURO**
  - Neurosonology
- **OB**
  - Obstetric Ultrasound
- **PIDS**
  - Pediatric Ultrasound
- **SONO**
  - Sonography
- **THERA**
  - Therapeutic Ultrasound
- **GLOBAL**
  - Ultrasound in Global Health
- **MEDED**
  - Ultrasound in Medical Education
Special Interest Tracks

**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 Ultrasound Imaging .......................................................... **SUN**
- Basic Science and Instrumentation Community Meeting .......................................................... **MON**
- Low-Cost, Easy-to-Use Ultrasound 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**

**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**
- Cardiovascular Ultrasound Community Meeting ........................................................................... **TUE**
- 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**

**Contrast-Enhanced Ultrasound**
- Basic Science and Preclinical Applications of Ultrasound Contrast .................................................. **TUE**
- Clinical Applications of Ultrasound Contrast, Part 1 ............................................................................ **TUE**
- Clinical Applications of Ultrasound Contrast, Part 2 ........................................................................... **TUE**
- Contrast-Enhanced Ultrasound Community Meeting .......................................................................... **TUE**
- Clinical Applications of Contrast-Enhanced Ultrasound ...................................................................... **TUE**
- Contrast-Enhanced Ultrasound in Children: The European and US Experience ................................ **WED**

**Elastography**
- Elastography: State of the Art, 2014 .............................................................................................. **SAT**
- Elastography Interest Group Meeting ............................................................................................... **MON**
- Hands-on Elastography ..................................................................................................................... **MON**

**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**
- Emergency and Critical Care Ultrasound Community Meeting ......................................................... **MON**
- Just Images: Ultrasound Imaging of Vascular Emergencies .............................................................. **MON**
- Abdominal and Pelvic Pain in the Emergency Room ....................................................................... **TUE**
- 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 Ultrasound ......................................................................... **WED**

**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-Quarter Fetal Cardiac Imaging ............................................................................................... **TUE**
- Three- and Four-Dimensional Volume Data Set Manipulation: Fetal Echocardiography .................. **TUE**
- Fetal Unknowns ............................................................................................................................... **WED**
- Fetal Echocardiography Community Meeting .................................................................................. **WED**

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

**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 Screening and Pregnancy of Unusual Location ..................................................... **MON**
- Gynecologic Sonography in the Breast Cancer Patient ................................................................... **MON**
- Gynecologic Ultrasound Community Meeting ................................................................................ **MON**
- Abdominal and Pelvic Pain in the Emergency Room ....................................................................... **TUE**
- Gynecologic Unknowns ................................................................................................................... **TUE**
- Three- and Four-Dimensional Volume Data Set Manipulation: Gynecology ....................................... **TUE**
- Gynecologic Sonography in the Infertility Patient ........................................................................... **WED**
- Just Images With Ultrasound Correlation in Office Procedures and for Guidance in the Operating Room .......... **WED**
- Wheel of Fortune: Proper Obstetric/Gynecologic Ultrasound Coding ........................................... **WED**
Top 10 Most Common First- and Second-Trimester Anomalies:

- Obstetric Film Panel: Interesting Prenatal Cases With
  High-Frequency Clinical and Preclinical Imaging

- Transcranial Doppler Ultrasound and
  Neurosonology Community Meeting

- Spinal Sonography of Children

- Prenatal Malformations of the Head, Face, and Neck

- Anatomy and Pathology of the Adolescent Hip

- Hands-on Obstetric Ultrasound

- Hands-on How to Do the Biopsy

- Hands-on Musculoskeletal Ultrasound

- Hands-on Musculoskeletal Ultrasound Community Meeting

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

- Rheumatologic Applications of Ultrasound

- Sonographic Evaluation of the Neonatal Brain

- Neuroanatomic Syllabus for Perinatal and Pediatric Sonographers: We Should See
  What We’re Missing

- Fetal Tumors

- Three- and Four-Dimensional Volume Data

- Neuroanatomic Syllabus for Perinatal and Pediatric Sonographers: We Should See
  What We’re Missing

- Wheel of Fortune: Proper Obstetric/Gynecologic Ultrasound Coding

- Contrast Agents in Therapy

- How Do I Decide Which Ultrasound Simulator I Need?

- Sonographic Evaluation of the Neonatal Brain

- The European and US Experience

- Related Problems: Making Sense of the Brachial Plexus

- Ultrasound Evaluations

- Sonographic Evaluation of the Neonatal Brain

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

- Just Images: Perinatal Ultrasound and Neonatal Correlations

- Neuroanatomic Syllabus for Perinatal and Pediatric Sonographers: We Should See
  What We’re Missing

- Quality Assurance: It Matters

- How Do I Decide Which Ultrasound Simulator I Need?

- Sonography Community Meeting

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

- Therapeutic Ultrasound Community Meeting

- Ultrasound in Global Health

- Ultrasound in Medical Education

- Ultrasound in Global Health Interest Group Meeting

- Lecture Series: Global Health

- Ultrasound in Medical Education Interest Group Meeting

- Current Ultrasound Integration Into Undergraduate Medical Education, Part 1

- Current Ultrasound Integration Into Undergraduate Medical Education, Part 2

- Accreditation Tutorial

- Conducting Ultrasound Research and Getting It Published

#AIUM14
# Community and Committee Meeting Schedule

## Community and Interest Group Meeting Schedule

### Sunday, March 30

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:00 PM–3:00 PM</td>
<td>Ultrasound in Medical Education</td>
<td>Neopolitan Ballroom III/IV</td>
</tr>
<tr>
<td>3:15 PM–5:00 PM</td>
<td>Ultrasound in Global Health</td>
<td>Neopolitan Ballroom III/IV</td>
</tr>
</tbody>
</table>

### Monday, March 31

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:15 AM–11:00 AM</td>
<td>Pediatric Ultrasound</td>
<td>Milano Ballroom I/II</td>
</tr>
<tr>
<td>3:30 PM–4:00 PM</td>
<td>Elastography</td>
<td>Octavius Ballroom 17</td>
</tr>
<tr>
<td></td>
<td>High-Frequency Clinical and Preclinical Imaging</td>
<td>Roman Ballroom I/II</td>
</tr>
<tr>
<td></td>
<td>Sonography</td>
<td>Milano Ballroom VIII</td>
</tr>
<tr>
<td>4:00 PM–5:30 PM</td>
<td>Gynecologic Ultrasound</td>
<td>Pompeian Ballroom</td>
</tr>
<tr>
<td></td>
<td>Musculoskeletal Ultrasound</td>
<td>Milano Ballroom III/IV</td>
</tr>
<tr>
<td>5:30 PM–6:30 PM</td>
<td>Basic Science and Instrumentation</td>
<td>Neopolitan Ballroom I/II</td>
</tr>
<tr>
<td></td>
<td>Emergency and Critical Care Ultrasound</td>
<td>Roman Ballroom III</td>
</tr>
<tr>
<td></td>
<td>Neurosonology</td>
<td>Roman Ballroom IV</td>
</tr>
<tr>
<td></td>
<td>Obstetric Ultrasound</td>
<td>Milano Ballroom V–VII</td>
</tr>
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### Tuesday, April 1

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:15 AM–11:00 AM</td>
<td>Cardiovascular Ultrasound</td>
<td>Pompeian Ballroom</td>
</tr>
<tr>
<td></td>
<td>Contrast-Enhanced Ultrasound</td>
<td>Roman Ballroom III</td>
</tr>
<tr>
<td></td>
<td>Interventional-Intraoperative Ultrasound</td>
<td>Neopolitan Ballroom I/II</td>
</tr>
<tr>
<td>4:00 PM–5:30 PM</td>
<td>General and Abdominal Ultrasound</td>
<td>Neopolitan Ballroom III/IV</td>
</tr>
</tbody>
</table>

### Wednesday, April 2

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:15 AM–10:15 AM</td>
<td>Fetal Echocardiography</td>
<td>Neopolitan Ballroom I/II</td>
</tr>
<tr>
<td>10:15 AM–11:00 AM</td>
<td>Therapeutic Ultrasound</td>
<td>Milano Ballroom I/II</td>
</tr>
</tbody>
</table>

## Committee Meeting Schedule

### Friday, March 28

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>3:00 PM–6:00 PM</td>
<td>Output Standards Subcommittee</td>
<td>Umbria</td>
</tr>
<tr>
<td>7:00 PM–9:00 PM</td>
<td>International Electrotechnical Commission Subcommittee</td>
<td>Umbria</td>
</tr>
</tbody>
</table>

### Saturday, March 29

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00 AM–2:00 PM</td>
<td>Bioeffects Committee</td>
<td>Modena</td>
</tr>
<tr>
<td>12:00 PM–3:00 PM</td>
<td>Finance and Executive Committee</td>
<td>Imperial Boardroom</td>
</tr>
<tr>
<td>2:00 PM–6:00 PM</td>
<td>Technical Standards Committee</td>
<td>Modena</td>
</tr>
<tr>
<td>5:00 PM–6:30 PM</td>
<td>Presidential Reception for New Members and Leadership</td>
<td>(by invitation only)</td>
</tr>
</tbody>
</table>

### Sunday, March 30

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00 AM–9:30 AM</td>
<td>Council on Communities</td>
<td>Verona</td>
</tr>
<tr>
<td>3:15 PM–5:00 PM</td>
<td>Continuing Medical Education Committee</td>
<td>Sorrento</td>
</tr>
<tr>
<td></td>
<td>Membership Committee</td>
<td>Salerno</td>
</tr>
</tbody>
</table>

### Monday, March 31

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:15 AM–11:00 AM</td>
<td>Web Education Committee</td>
<td>Sorrento</td>
</tr>
<tr>
<td>12:30 PM–1:30 PM</td>
<td>Presidential Advisory Council</td>
<td>Imperial Boardroom</td>
</tr>
<tr>
<td>1:30 PM–3:30 PM</td>
<td>Ultrasound Practice Accreditation Council</td>
<td>Capri</td>
</tr>
<tr>
<td>4:00 PM–5:30 PM</td>
<td>Endowment for Education and Research Committee</td>
<td>Siena</td>
</tr>
</tbody>
</table>

### Tuesday, April 1

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:00 AM–8:00 AM</td>
<td>Journal of Ultrasound in Medicine</td>
<td>(by invitation only)</td>
</tr>
<tr>
<td></td>
<td>Editorial Board</td>
<td>Salerno</td>
</tr>
<tr>
<td>10:30 AM–11:30 AM</td>
<td>Web Education Committee</td>
<td>Sorrento</td>
</tr>
<tr>
<td>12:30 PM–1:30 PM</td>
<td>Presidential Advisory Council</td>
<td>Imperial Boardroom</td>
</tr>
<tr>
<td>1:30 PM–3:30 PM</td>
<td>Ultrasound Practice Accreditation Council</td>
<td>Capri</td>
</tr>
<tr>
<td>4:00 PM–5:30 PM</td>
<td>Endowment for Education and Research Committee</td>
<td>Siena</td>
</tr>
</tbody>
</table>

### Wednesday, April 2

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:00 AM–8:00 AM</td>
<td>Board of Governors</td>
<td>Verona</td>
</tr>
<tr>
<td></td>
<td>Leadership Banquet</td>
<td>(by invitation only)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Florentine Ballroom</td>
</tr>
</tbody>
</table>
Case-of-the-Day Challenges

Annual Convention Cochairs

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Case-of-the-Day Challenges located in the Registration Area
Case-of-the-Day Challenges are supported in part by Parker Laboratories, Inc.
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 (ACGME) 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, neonatology, 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 ACGME, 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 paid to you or your spouse/partner 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; or 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.

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.

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 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.
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 and Interest Group 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.

Diagnostic Radiology—Maintenance of Certification (MOC)—Self-Assessment Module (SAM)
Self-assessment and lifelong learning are intended to enhance a physician’s knowledge and skills and provide continuous opportunity for improvement of the quality of care the physician delivers to the American public. The American Board of Radiology defines “self-assessment CME” as interactive learning opportunities that use self-assessment tools to help learners reflect on their practice and identify their individual needs. The AIUM completed the extensive application for the Transplant Imaging session and is pleased to report that the Transplant Imaging course was approved for 1.75 SAM credits. In order to receive the SAM credits you will need to complete the test online after the completion of the session.
Disclosure of Commercial Support for the 2014 AIUM Annual Convention

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Society of Radiologists in Ultrasound
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Wui Chong, MD, FRCR
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Therese M. Weber, MD

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Reem S. Abu-Rustum, MD
Joan M. Mastrobattista, MD

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Reem S. Abu-Rustum, MD
Nasrin Benion, RDMS
Therese M. Weber, MD

Continuing Medical Education Committee Representative
Thomas Shipp, MD

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Kenneth S. Lee, MD
Janet O’Brien, RDMS, PA-C
James Shwayder, MD, JD

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Phyllis Glanc, MDCM, BSC, FRCPC
Luis Izquierdo, MD, MBA, CPE

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Harris L. Cohen, MD
Manuel Porto, MD

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Bret Nelson, MD, RDMS
Ilan E. Timor-Tritsch, MD
Yaron Zalel, MD

Scientific Session Cochairs
Rochelle Andreotti, MD
Joan M. Mastrobattista, MD
Deborah Rubens, MD
Chandra Sehgal, PhD

Three- and Four-Dimensional Volume Data Set Manipulation Sessions Cochairs
Wesley Lee, MD
Khaleed Sakhd, MD
Caesars Palace Las Vegas Hotel Floor Plans

PROMENADE SOUTH

Exhibit Hall

PROMENADE LEVEL

NEOPOLITAN BALLROOM

MILANO BALLROOM

V VII VIII

V

VI

VIII

Exhibit Hall

Balcony

23 22 24 25 1 2 3 4

19 18 17 16 15 14 13 12 11 10 9 8 7

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- Create your personal convention schedule.
- Connect with vendors and view their latest product information.
- Evaluate sessions quickly as you attend them by answering a brief survey.
- Receive current meeting information on your favorite convention activities and sessions through instant push notifications.
- Follow the 2014 Annual Convention on Twitter and don’t miss a minute of the action and excitement. Tweet using hashtag #AIUM14.

Download the 2014 AIUM Annual Convention Mobile App on Apple or Android mobile devices and tablets.

Scan the QR code or visit http://aium2014.quickmobile.mobi with your mobile device.
To print your CME certificate for the Convention/Preconvention:

Although each day you may enter the number of credits you earned that day, DO NOT "Submit" until you have entered ALL your CME credits. You WILL NOT be able to alter the number of CME credits once you "Submit."

2. Click on "My Account" in the upper right-hand side of the screen.
3. Enter your e-mail address and password and click "Log In." (If you do not remember your password, or are new to the website, please see the “Still Need Help?” section below.)
4. Choose “CMEs Earned at Conventions and/or Postgraduate Courses” under CME Tracker.
5. Click on the "Enter Credits" link in the “Credits Earned” column.
6. Click on the pencil logo on the left-hand side of the page for the first day. Sometimes a red will appear; you can just ignore it.
7. Type in the total amount of credits you earned for that day in the box on the right-hand side under the heading “Credits Earned.” If you didn’t earn any credits that day, you must enter 0 (zero) or the form will not submit.
8. Click on the “Save” icon at the beginning of that line.
9. Do the same for each day (ie, repeat steps 6–8).
10. When you are finished entering totals for each day, click on the “Submit my credits for this event” button at the bottom of the page.
11. After clicking “Submit,” you will see the total of credits you earned in the column labeled “Credits Earned.”

Click “View” in the “Certificate” column to view a copy of your official AIUM CME participation record.
You may print a hard copy of your certificate or “print” it as a PDF to save it on your computer. (See image below.)

Special Notes:
• If you register onsite, you will not be able to enter your CME credits for 7 days.
• You cannot submit your CME credits on a smartphone.
• The maximum number of credits for each day is listed below.

Preconvention—Saturday, March 29, 2014—7.0 CMEs
Convention—Sunday, March 30, 2014—6.25 CMEs
Convention—Monday, March 31, 2014—10.25 CMEs
Convention—Tuesday, April 1, 2014—9.0 CMEs
Convention—Wednesday, April 2, 2014—8.75 CMEs
• You will only be able to enter credits for the day(s) you are registered.

Still Need Help?

If you do not remember your login information or are new to the AIUM website, you will need to activate/reactivate your login information:

A. Click on the “Log In” button on the top right-hand side of the AIUM website (www.aium.org).
B. Click on the link that reads “Activate your account here.” It is in the “Register as a new user,” box, under the phrase “Are you a new member or e-associate?”
C. Enter your ID # (located on name badge), last name, e-mail address, and a password. Reenter your password for verification purposes. (If you registered onsite, or do not know your ID #, e-mail ddelanko@aium.org.)
D. Click “Submit this Form” and go to step 2 above.
Saturday, March 29

Preconvention Program

Separate registration required.

Day at a Glance

6:30 AM—5:00 PM Preconvention Program Registration Open
7:00 AM—7:30 AM Preconvention Program Breakfast
7:30 AM—5:00 PM Comprehensive Review of Musculoskeletal Ultrasound
Hands-on Obstetric Ultrasound, Fetal Cardiac Screening, and Simulation
7:30 AM—11:30 AM Fetal Evaluation in the First Trimester: Where Are We Going?
Ultrasound of the Critically Ill Child
8:00 AM—2:00 PM Bioeffects Committee Meeting
12:00 PM—3:00 PM Finance and Executive Committee Meeting
1:00 PM—5:00 PM Advanced in 3-Dimensional Obstetric and Gynecologic Ultrasound
Elastography: State of the Art, 2014
Thoracic Ultrasound in the Emergency and Critically Care Patient
2:00 PM—6:00 PM Technical Standards Committee Meeting
5:00 PM—6:30 PM Presidential Reception for New Members and Leadership (by invitation only)
Preconvention Program • Saturday, March 29, 2014

7:00 AM–7:30 AM
Preconvention Program Breakfast
Breakfast will be provided outside each room.

7:30 AM–5:00 PM
Full-Day Courses

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

Pompeian Ballroom
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.

Hands-on Obstetric Ultrasound, Fetal Cardiac Screening, and Simulation
Earn up to 7.0 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

Octavius Ballroom 17
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, Hye-young 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, 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.

7:30 AM–11:30 AM
Morning Half-Day Courses

Fetal Evaluation in the First Trimester: Where Are We Going?
Earn up to 3.5 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

Roman Ballroom I/II
Moderator: Yaron Zalel, MD
Speakers: Jimmy Espinoza, MD, Mark Evans, MD, Waldo Sepulveda, MD, Ian 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.

Ultrasound of the Critically Ill Child
Earn up to 3.5 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

Roman Ballroom III
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.

8:00 AM–2:00 PM
Committee Meeting

Bioeffects Committee
Modena

12:00 PM–3:00 PM
Committee Meeting

Finance and Executive Committee
Imperial Boardroom
1:00 PM–5:00 PM
Afternoon Half-Day Courses

Advances in 3-Dimensional Obstetric and Gynecologic Ultrasound
Earn up to 3.5 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.
Roman Ballroom I/II
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.

Elastography: State of the Art, 2014
Earn up to 3.5 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.
Roman Ballroom III
Moderator: Richard Barr, MD, PhD
Speakers: Ghabad 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. 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.

Thoracic Ultrasound in the Emergency and Critical Care Patient
Earn up to 3.5 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.
Neopolitan Ballroom I/II
Moderator: Bret Nelson, MD, RDMS
Speakers: Rajesh Geria, MD, RDMS, 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.

2:00 PM–6:00 PM
Committee Meeting
Technical Standards Committee
Modena

5:00 PM–6:30 PM
Presidential Reception for New Members and Leadership
(by invitation only)

Your voice will help shape the 2015 AIUM Annual Convention.
Complete your evaluation!
Please take a moment to assist us by completing a brief survey that you will receive via e-mail regarding the Preconvention Program course you attended. Your participation in this process is very important to us. Your views are truly valued.
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Liver / Prostate / Thyroid / Vascular / Musculoskeletal / Abdomen / Gynecology / Obstetrics / Breast / Breast 3D / Pediatrics

www.supersonicimagine.com
Sunday, March 30
Convention

Day at a Glance

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
                  Council on Communities Committee Meeting  (by invitation only)
9:45 AM–11:30 AM  Opening Plenary/Awards Session/AIUM Business Meeting
11:30 AM–1:00 PM  Grand Opening Luncheon in the Exhibit Hall
11:30 AM–4:30 PM  E-Posters Open for Viewing
1:00 PM–3:00 PM  Special Interest Sessions
                  Hands-on Special Interest Session
                  Ultrasound in Medical Education Interest Group Meeting
3:15 PM–5:00 PM  Special Interest Sessions
                  Hands-on Special Interest Session
                  Continuing Medical Education Committee Meeting
                  Membership Committee Meeting
                  Ultrasound in Global Health Interest Group Meeting
## 8:00 AM–9:30 AM

### Special Interest Sessions

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

- Earn up to 1.5 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.
- **Roman Ballroom III**
  - Moderator: Robert Arntfield, MD, RDMS

  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.

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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</table>
| 8:00 AM–8:20 AM | Ultrasound in Cardiac Arrest  
  Phil Andrus, MD |
| 8:20 AM–8:40 AM | Transesophageal Echocardiography in a Mixed Intensive Care Unit: Risks, Benefits, and a Simplified Protocol  
  Scott Millington, MD |
| 8:40 AM–9:00 AM | Diastology: Using Ultrasound to Identify Diastolic Dysfunction at the Bedside  
  R. Andrew Taylor, MD |
| 9:00 AM–9:20 AM | Ultrasound Assessment of Cardiac Output in the Critically Ill  
  Anthony Dean, MD |
| 9:20 AM–9:30 AM | Questions and Answers |

#### Clinical and Preclinical Applications of High-Frequency Cardiovascular Ultrasound

- Earn up to 1.5 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.
- **Roman Ballroom IV**
  - Moderator: Jonathan Mamou, PhD

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

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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| 8:00 AM–8:30 AM | Multifunctional Intravascular Ultrasound: See, Treat, Monitor  
  John Hossack, PhD |
| 8:30 AM–9:00 AM | Echocardiography in Drug Safety  
  Jonathan Heyen, MS |
| 9:00 AM–9:30 AM | Vascular Biomechanics Assessed by High-Frequency Ultrasound  
  Yoshifumi Saigo, MD, PhD |

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

- Earn up to 1.5 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.
- **Neopolitan Ballroom III/IV**
  - Moderators: Humberto Rosas, 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.

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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| 8:00 AM–8:30 AM | Anatomy of the Lower Extremity Peripheral Nerves  
  Corrie Yablon, MD |
| 8:30 AM–9:00 AM | Entrapment Neuropathies of the Lower Extremity  
  Daniel Siegal, MD |
| 9:00 AM–9:30 AM | Interventional Ultrasound Applications of the Lower Extremity Nerves  
  Courtney Scher, DO |

## Evaluation of Bleeding and Pain in Early Pregnancy

- Earn up to 1.5 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.
- **Roman Ballroom I/II**
  - Moderator: Peter Doubilet, MD, PhD

  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.

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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</table>
| 8:00 AM–8:30 AM | First, Do No Harm . . . to Early Pregnancies  
  Peter Doubilet, MD, PhD |
| 8:30 AM–9:00 AM | Intrauterine Pregnancies of Uncertain Viability: Diagnosis of Pregnancy Failure  
  Carol Benson, MD |
| 9:00 AM–9:30 AM | Pregnancy of Unknown Location: Role of the Quantitative Human Chorionic Gonadotropin  
  Misty Blanchette Porter, MD |
The Abdominal Aorta: Imaging Before and After Endovascular Interventions

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

Neopolitan Ballroom I/II

Moderator: Leslie Scoutt, 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.

8:00 AM–8:15 AM Screening for Abdominal Aortic Aneurysms: What Is Paid for and Who Should Be Screened?
Edward Bluth, MD

8:15 AM–8:30 AM Endovascular Surgery for Abdominal Aortic Aneurysms: How Is It Done and How Does It Influence Postoperative Imaging
Roy Fujitani, MD, RVT

8:30 AM–8:45 AM Ultrasound Technique for Preoperative and Postoperative Imaging of Abdominal Aortic Aneurysms
George Berdejo, BA, RVT

8:45 AM–9:00 AM The Use of Ultrasound Contrast in Examining Patients for Endoleaks After Stent Grafting
Philip Bendick, PhD, RVT

9:00 AM–9:15 AM The Role of Computed Tomography Versus Ultrasound Imaging After Surgery
Hamid Mojibian, MD

9:15 AM–9:30 AM Questions and Answers

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

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

Pompeian Ballroom

Moderator: Dolores Pretorius, 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.

8:00 AM–8:20 AM Three-Dimensional Fetal Face and Miscellaneous?
Dolores Pretorius, MD

8:20 AM–8:40 AM Three-Dimensional Fetal Brain
Luís Gonçalves, MD

8:40 AM–9:00 AM Three-Dimensional Fetal Spine
Krissa Beeker, RDMS

9:00 AM–9:20 AM Three-Dimensional Volume Manipulations
Lorene Romine, MD

9:20 AM–9:30 AM Questions and Answers

8:00 AM–9:30 AM Committee Meeting

Council on Communities

Verona
(by invitation only)
Convention • Sunday, March 30, 2014

9:45 AM–11:30 AM  
Opening Plenary/Awards Session/AIUM Business Meeting

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

Milano Ballroom

William J. Fry Memorial Lecture Award

Patient-Focused Imaging:  
Lessons Learned From Musculoskeletal Ultrasound

Levon Nazarian, MD

Imaging decisions, on both local and national levels, are often made on the basis of economic considerations and turf battles. This lecture will illustrate how the advancement of musculoskeletal ultrasound has depended on collaboration, not competition, among health professionals. This multidisciplinary approach is most conducive to the well-being of our patients.

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

Joseph H. Holmes Clinical and Basic Science Pioneer Awards

Greggory DeVore, MD (Clinical)  
James Miller, MA, PhD (Basic Science)

Peter H. Arger Excellence in Medical Student Education Award

Richard Hoppmann, MD

Distinguished Sonographer Award

Diana Strickland, BS, RDMS, RDCS

11:30 AM–1:00 PM  
Grand Opening Luncheon in the Exhibit Hall

Octavius Ballroom

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.

Honorary Fellow Awards

Pascal Laugier, PhD  
Yuji Murata, MD, PhD, FAFOG
1:00 PM–3:00 PM
Special Interest Sessions

**Advanced Liver Doppler Techniques and Applications**

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

**Pompeian Ballroom**

*Moderator: Sharlene Teefey, MD*

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

1:00 PM–1:30 PM  Sonographic Evaluation of Transjugular Intrahepatic Portosystemic Shunts  
Ulrike Hamper, MD, MBA

1:30 PM–2:00 PM  Gray Scale and Doppler Findings of Cirrhosis and Portal Hypertension Too  
Leslie Scoutt, MD

2:00 PM–2:30 PM  Venous Obstruction in Liver Disease: Portal Vein Thrombosis, Cavernous Transformation, Budd-Chiari Malformation  
Sharlene Teefey, MD

2:30 PM–3:00 PM  Liver Doppler Findings in Right Heart Failure  
Monzer Abu-Yousef, MB, BCh, ABR

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

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

**Neopolitan Ballroom I/II**

*Moderators: Oliver Kripfgans, PhD, Philip Levy, 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.

1:00 PM–1:25 PM  Ultrasound Assessment of Volume Responsiveness in the Critically Ill  
Alexander Levitov, MD, RDMS

1:25 PM–1:50 PM  Mobile Ultrasound: All You Need Is a Phone and a Probe  
Jason Fischer, PhD

1:50 PM–2:15 PM  Incorporating Point-of-Care Ultrasound Into Bedside Clinical Decision Making and Initial Treatment  
John Younger, MD

2:15 PM–2:50 PM  Miniaturization Redefines Emergency and Critical Care Ultrasound  
Nahi Halmann, PhD

2:50 PM–3:00 PM  Questions and Answers

**Hands-on Musculoskeletal Ultrasound**

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

**Octavius Ballroom 17**

*Hands-on Faculty: Nathalie Bureau, MD, Joseph Craig, MD, Mary Chiavaras, MD, PhD, Gandikota Girish, MBBS, Jon Jacobson, MD, Viviane Khoury, MD, William Medford, RDMS, RMSK, Humberto Rosas, MD, Courtney Scher, DO, Daniel Siegal, 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.

**Quality Assurance: It Matters**

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

**Roman Ballroom III**

*Moderator: Nasrin Benion, RDMS*

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; (3) explore methods for establishing and overseeing quality assurance; and (4) discuss the role of the advanced practice sonographer as the possible gatekeeper of quality.

1:00 PM–1:30 PM  Bioeffects: How Do Changes in Equipment Parameters Affect the Mechanical and Thermal Indices?  
Sheryl Goss, MS, RT(R)(S), RDMS, RDCS, RVT

1:30 PM–2:15 PM  Morale: Does It Affect Image Quality?  
M. Robert De Jong, RDMS, RDCS, RVT

2:15 PM–3:00 PM  Equipment Manipulation: It Makes a Difference  
Sheryl Goss, MS, RT(R)(S), RDMS, RDCS, RVT
Spinal Sonography of Children

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

Roman Ballroom IV
Moderator: Michael Di Pietro, 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.

1:00 PM–1:10 PM Introduction
Michael Di Pietro, MD

1:10 PM–1:55 PM Filar Cysts, True and False Tracts, and the Tethered Cord
Lisa Lowe, MD

1:55 PM–2:20 PM Perisacral Masses and the Spinal Cord
Harriet Paltiel, MD

2:20 PM–2:50 PM Scanning the Older Child: Spina Bifida Aperta and Chiari Malformation
Michael Di Pietro, MD

2:50 PM–3:00 PM Questions and Answers

Use of Doppler Interrogation in Clinical Obstetrics

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

Roman Ballroom I/II
Moderator: 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–1:30 PM Basic Review of the Use and Technique of Doppler
Donna Neale, MD

1:30 PM–2:00 PM Use of Doppler Studies for the Prediction of Preeclampsia
Ray Bahado-Singh, MD

2:00 PM–2:30 PM Use of Doppler in Fetal Growth Disturbances
Jimmy Espinosa, MD

2:30 PM–3:00 PM Use of Doppler in the Diagnosis and Management of Fetal Anemia
Giancarlo Mari, MD

3:00 PM–3:30 PM Questions and Answers

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.

Ultrasound in Medical Education
Neopolitan Ballroom III/IV
The Ultrasound in Medical Education Interest Group coordinates ultrasound activities within the undergraduate medical education community. This group has developed task forces and a Web portal to help centralize communication and information about ultrasound in medical student ultrasound education. This group welcomes all members with an interest in helping continue to shape the landscape of ultrasound in the medical school curriculum. As more programs start to invest in this educational initiative, this group can continue to help coordinate standards, curricula, and best practices to train the next generation of clinicians able to use ultrasound at the bedside.

3:15 PM–5:00 PM
Special Interest Sessions
Applications of High–Frame Rate Ultrasonic Imaging

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

Roman Ballroom III
Moderators: Mark Holland, PhD, Chandra Sehgal, 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.

3:15 PM–3:40 PM Pulsed Wave Imaging of Aneurysmal and Atherosclerotic Vessels in Mice In Vivo
Elisa Konofagou, PhD

3:40 PM–4:05 PM Enhanced Resolution for High–Frame Rate Imaging Using Qualified Regions of Overlapping Transmit Beams
Ronald Daigle, PhD

4:05 PM–4:30 PM Ultrafast Imaging in Clinical Routines and Medical Research: From Shear Wave Elastography to Ultrasound Imaging of Brain Activity
Mickael Tanter, PhD

4:30 PM–4:55 PM Clinical Images Using a Fast–Plane Wave Vector Velocity Method
Jorgen Jensen, PhD, MSc(E)

4:55 PM–5:00 PM Questions and Answers
Endometriosis in Gynecologic Sonography

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

**Pompeian Ballroom**

Moderator: Jodi Lerner, MD

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

3:15 PM–3:40 PM  
**Introduction**  
Jodi Lerner, MD

3:40 PM–4:05 PM  
**The Changing Faces of Endometriosis**  
Beryl Benacerraf, MD

4:05 PM–4:30 PM  
**Ultrasound and Surgical Correlation of Endometriosis**  
Khaled Sakhel, MD

4:30 PM–4:55 PM  
**Magnetic Resonance Imaging of Endometriosis: Does It Add Value?**  
Rochelle Andreotti, MD

4:55 PM–5:00 PM  
**Questions and Answers**

**S2 Hands-on Ultrasound-Guided Nerve Blocks**

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

**Octavius Ballroom 17**

Moderator: Arun Nagdev, MD

On completion of the 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.

3:15 PM–3:30 PM  
**Ultrasound-Guided Nerve Blocks for the Nonanesthesiologist**  
Arun Nagdev, MD

3:30 PM–3:45 PM  
**Ultrasound-Guided Peripheral Nerve Blocks for Hip Fracture**  
Lawrence Haines, MD, MPH, RDMS

3:45 PM–4:00 PM  
**Ultrasound-Guided Suprascapular, Intercostal, and Paravertebral Nerve Blocks**  
David Rosenblum, MD

4:00 PM–5:00 PM  
**Hands-on Scanning**  
Caitlin Bailey, MD, Christopher Dang, MD, Oron Frenkel, MD, MS, Lawrence Haines, MD, MPH, RDMS, Andrew Herring, MD, Reet Lawhon, MD, Daniel Mantuani, MD, MPH, Arun Nagdev, MD, Christine Riguetti, MD, David Rosenblum, MD

Prenatal Malformations of the Head, Face, and Neck

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

**Roman Ballroom IV**

Moderator: Beth Kline-Fath, 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.

3:15 PM–3:40 PM  
**Sonography of the Fetal Brain**  
Beth Kline-Fath, MD

3:40 PM–4:05 PM  
**Malformations of the Ears and Orbits**  
Maria Calvo-Garcia, MD

4:05 PM–4:30 PM  
**The Face**  
Judy Estroff, MD

4:30 PM–4:55 PM  
**The Neck**  
Mariana Meyers, MD

4:55 PM–5:00 PM  
**Questions and Answers**

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

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

**Roman Ballroom I/II**

Moderator: Mark Sklansky, MD

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

3:15 PM–3:35 PM  
**Supraventricular Tachycardia**  
Bettina Cuneo, MD, RDCS

3:35 PM–3:55 PM  
**Aortic Stenosis**  
Tracy Anton, BS, RDMS, RDCS

3:55 PM–4:15 PM  
**Tetralogy of Fallot**  
Elena Sinkovskaya, PhD, MD

4:15 PM–4:35 PM  
**Atrioventricular Canal Defects**  
Lynn Simpson, MD, MSc

4:35 PM–4:55 PM  
**Total Anomalous Pulmonary Venous Return**  
Norman Silverman, MD, DSc

4:55 PM–5:00 PM  
**Questions and Answers**
**Transplant Imaging**

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

**Neopolitan Ballroom I/II**

**Moderator:** Susan Ackerman, 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–3:55 PM** Imaging of Pancreas Transplants
  - Edward Bluth, MD

- **3:55 PM–4:25 PM** Ultrasound Evaluation of Liver Transplants
  - Susan Ackerman, MD

- **4:25 PM–5:00 PM** Renal Transplant Complications
  - Stephanie Coquia, MD

This session is qualified by the American Board of Radiology (ABR) in meeting the criteria for self-assessment CME toward the purpose of fulfilling requirements in the ABR Maintenance of Certification Program from March 30, 2013, through March 30, 2016; 1.75 SAM credits.

**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.

**Ultrasound in Global Health**

**Neopolitan III/IV**

At this meeting, we will review ongoing current efforts in ultrasound education and research internationally, with focus on resource-limited settings. This will include presentations by our members on their projects and introduction of new teaching resources. We will also set the agenda for 2015 AIUM Ultrasound in Global Health presentations as well as announce the outcome of elections and introduce our new chair, vice chair, and secretary for the group.

**3:15 PM–5:00 PM**

**Committee Meetings**

**Continuing Medical Education**

Sorrento

**Membership**

Salerno

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  - Patient Drapes

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• Learn about member services including educational tools and CME opportunities accessible from the AIUM website.

• Learn how to connect and share.

• Enter to win a free registration to next year’s convention in Lake Buena Vista, Florida.

• Pick up Case-of-the-Day Challenge winner ribbons.

Located in the Registration Area
Open every day from 8:00 AM–4:30 PM

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While you’re here, don’t miss these journal-related activities:

**Tuesday, April 1**
Milano Ballroom VIII
11:00 AM–12:30 PM
Special Interest Session
Conducting Ultrasound Research and Getting It Published
by 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.
Earn up to 2.0 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

**Tuesday, April 1**
Milano Ballroom VIII
12:30 PM–1:30 PM
Meet the Journal of Ultrasound in Medicine Editors: Question-and-Answer Session

This is your opportunity to meet the editors of the journal, Editor-in-Chief Lev Nazarian, MD, and Deputy Editors Flemming Forsberg, PhD, Wesley Lee, MD, and Mark Lockhart, MD, MPH.
# Monday, March 31

## Convention

### Day at a Glance

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>6:30 AM–4:00 PM</td>
<td>Convention Registration Open</td>
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<tr>
<td>6:30 AM–10:15 AM</td>
<td>Coffee Service in Registration Area/Exhibit Hall</td>
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<td>7:00 AM–8:00 AM</td>
<td>Just Images and Comprehensive Refresher Sessions</td>
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<tr>
<td>7:00 AM–8:00 AM</td>
<td><em>Journal of Ultrasound in Medicine</em> Deputy and Subspecialty Editors Meeting</td>
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<td>8:15 AM–10:15 AM</td>
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<td>10:15 AM–11:00 AM</td>
<td>Refreshment Break in the Exhibit Hall</td>
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<td>10:30 AM–11:30 AM</td>
<td>Pediatric Ultrasound Community Meeting</td>
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<tr>
<td>11:00 AM–12:30 PM</td>
<td>Scientific Sessions</td>
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<tr>
<td>12:30 PM–1:30 PM</td>
<td>Lunch in the Exhibit Hall</td>
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<tr>
<td>12:30 PM–1:30 PM</td>
<td>Presidential Advisory Council</td>
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<tr>
<td>1:30 PM–3:30 PM</td>
<td>Special Interest Sessions</td>
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<tr>
<td>3:30 PM–4:00 PM</td>
<td>Ultrasound Practice Accreditation Council Meeting</td>
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<tr>
<td>4:00 PM–5:30 PM</td>
<td>Film Panel Sessions</td>
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<tr>
<td>5:30 PM–6:30 PM</td>
<td>Basic Science and Instrumentation Community Meeting</td>
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</table>

### Additional Events

- Elastography Interest Group Meeting
- High-Frequency Clinical and Preclinical Imaging Community Meeting
- Sonography Community Meeting
- Gynecologic Ultrasound Community Meeting
- Musculoskeletal Ultrasound Community Meeting
- Endowment for Education and Research Committee Meeting
- Emergency and Critical Care Ultrasound Community Meeting
- Neurosonology Community Meeting
- Obstetric Ultrasound Community Meeting
7:00 AM–8:00 AM
Just Images and Comprehensive Refresher Sessions

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

Milano Ballroom III/IV
Moderator: 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.

7:00 AM–7:30 AM
Gangrenous, Emphysematous, and Acalculous Cholecystitis
Sharlene Teefey, MD

7:30 AM–8:00 AM
Gallbladder Cancer and How to Differentiate It From Acute Cholecystitis
Hanh Nghiem, MD

Carotid and Upper Extremity Arterial Imaging: Challenges, Pitfalls, and Missed Diagnoses
Earn up to 1.0 AMA PRA Category 1 Credit™ (accepted by the ARDMS) or ARRT Category A Credit.

Pompeian Ballroom
Moderator: Jennifer McDowell, MM, RVT, RDMS, RT
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.

7:00 AM–7:30 AM
Carotid
John Pellerito, MD

7:30 AM–8:00 AM
Upper Extremities
Laurence Needleman, MD

Low-Cost, Easy-to-Use Ultrasound for the Developing World
Earn up to 1.0 AMA PRA Category 1 Credit™ (accepted by the ARDMS) or ARRT Category A Credit.

Roman Ballroom IV
Moderators: J. Brian Fowlkes, PhD, David Vilkomerson, 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 (e.g., 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.

7:00 AM–7:15 AM
Introduction to Ultrasound in Global Health
Sachita Shah, MD

7:15 AM–7:28 AM
Ultrasound Technology Development for Underserved Markets
Kai Thomenius, PhD

7:28 AM–7:41 AM
A Novel Doppler Ultrasound Device for Pregnancy Monitoring in Low-Resolution Settings
Ajay Anand, MD

7:41 AM–8:00 AM
Questions and Answers

Early Obstetric Scanning and Pregnancy of Unusual Location
Earn up to 1.0 AMA PRA Category 1 Credit™ (accepted by the ARDMS) or ARRT Category A Credit.

Milano Ballroom V–VI
Moderator: Ana Monteagudo, MD, RDMS
The objective of this session is to provide better delineation of unusual pregnancy: cesarean delivery scar, cornual, and cervical.

7:00 AM–7:30 AM
Challenges in Scanning the Early Pregnancy
Ana Monteagudo, MD, RDMS

7:30 AM–8:00 AM
Where Is WALDO?
Ilan E. Timor-Tritsch, MD
How Do I Decide Which Ultrasound Simulator I Need?
Earn up to 1.0 AMA PRA Category 1 Credit™ (accepted by the ARDMS) or ARRT Category A Credit.
Roman Ballroom III
Moderator: Christine Bird, BS, RDMS, RVT
This session will familiarize potential users with the features and choices available in ultrasound simulators.
7:00 AM–8:00 AM
How Do I Decide Which Ultrasound Simulator I Need?
Adam Dodson, NCEE, NRP, CCEMTP

Just Images: Ultrasound Imaging of Vascular Emergencies
Earn up to 1.0 AMA PRA Category 1 Credit™ (accepted by the ARDMS) or ARRT Category A Credit.
Milano Ballroom I/II
Moderator: Leslie Scoutt, MD
This session will discuss the role of ultrasound in the evaluation of a variety of vascular emergencies.
7:00 AM–7:30 AM
Challenging Vascular Cases From the Emergency Department
Sheila Sheth, MD
7:30 AM–8:00 AM
Ultrasound Imaging of Vascular Emergencies
Leslie Scoutt, MD

New Guidelines for Fetal Cardiac Imaging
Earn up to 1.0 AMA PRA Category 1 Credit™ (accepted by the ARDMS) or ARRT Category A Credit.
Roman Ballroom I/II
Moderator: Lynn Simpson, MD, MSc
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.
7:00 AM–7:20 AM
Screening Obstetric Ultrasound: New Guidelines for the Fetal Heart
Dolores Pretorius, MD
7:20 AM–7:40 AM
Fetal Echocardiography: New Guidelines
Joshua Copel, MD
7:40 AM–8:00 AM
Medical-Legal Implications of Guidelines for Fetal Cardiac Imaging
Greggory DeVore, MD

Pediatric Endocrine Ultrasound
Earn up to 1.0 AMA PRA Category 1 Credit™ (accepted by the ARDMS) or ARRT Category A Credit.
Neopolitan Ballroom III/IV
Moderator: Rob Goodman, MBBChir
This session will review various pediatric endocrine conditions presenting with ultrasound-diagnosable findings. These will include evaluations of the pediatric thyroid, adrenal glands, ovary, and testis.
7:00 AM–7:20 AM
Pediatric Thyroid Ultrasound
Carol Barnewolt, MD
7:20 AM–7:40 AM
Pediatric Gonadal Ultrasound
Nadia Mahmood, MD
7:40 AM–8:00 AM
Pediatric Adrenal Ultrasound
Rob Goodman, MBBChir

Rheumatologic Applications of Ultrasound: Gout From A to Z
Earn up to 1.0 AMA PRA Category 1 Credit™ (accepted by the ARDMS) or ARRT Category A Credit.
Neopolitan Ballroom I/II
Moderator: Ralf Thiele, MD
On completion of this session, participants will know when and how to use musculoskeletal ultrasound for rheumatologic disease such as gout.
7:00 AM–7:30 AM
Clinical Considerations in Gout
Ralf Thiele, MD
7:30 AM–8:00 AM
Sonography and Ultrasound Interventions in Gout
Alberto Simoncini, MD

7:00 AM–8:00 AM
Committee Meeting

Journal of Ultrasound in Medicine Deputy and Subspecialty Editors Meeting
Trevi

#AIUM14
8:15 AM–10:15 AM
Special Interest Sessions

Cardiac Imaging: Live Scanning
Earn up to 2.0 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.
Milano Ballroom V–VII
Moderator: Lynn Simpson, MD, MSc
Faculty: Alfred Abuhamad, MD, Tracy Anton, BS, RDMS, RDCS, Greggory 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.

Current Ultrasound Integration Into Undergraduate Medical Education, Part 1
Earn up to 2.0 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.
Milano Ballroom III/IV
Moderator: David Bahner, MD, RDMS
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.

Gynecologic Sonography in the Breast Cancer Patient
Earn up to 2.0 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.
Roman Ballroom I/II
Moderator: Jodi Lerner, MD
This session will address how to manage premenopausal and postmenopausal patients with breast cancer.

8:15 AM–8:45 AM Evaluation of the Uterus, Endometrium, and Tamoxifen Use
Steven Goldstein, MD

8:45 AM–9:15 AM Improved Sonographic Diagnosis of Ovarian Cancer
Arthur C. Fleischer, MD

9:15 AM–9:45 AM Patients With the BRCA Gene
Jodi Lerner, MD

9:45 AM–10:00 AM Surveillance of the Asymptomatic Patient: What About Her Ovaries?
Steven Goldstein, MD

10:00 AM–10:15 AM Questions and Answers

M1 Hands-on Carotid and Transcranial Doppler Ultrasound
Earn up to 2.0 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.
Octavius Ballroom 17
Moderators: Tatjana Rundek, MD, PhD, Susan Smith, RDMS, RDCS, RVT
The objective of this session is to provide basics on transcranial Doppler scanning and interpretation.

8:15 AM–8:25 AM Carotid Protocols and Scanning Tips
M. Robert De Jong, RDMS, RDCS, RVT

8:25 AM–8:35 AM Transcranial Doppler
Susan Smith, RDMS, RDCS, RVT

8:35 AM–10:15 AM Hands-on Scanning
Andrei Alexandrov, MD, RVT, Eva Bartels, MD, PhD, Digna Cabral, BS, Nelly Campo, MD, M. Robert De Jong, RDMS, RDCS, RVT, Zsolt Garani, MD, Emmanuel Gaspard, MD, Adrien Racz, MD, Susan Smith, RDMS, RDCS, RVT, Charles Tegeler, MD

8:15 AM–8:45 AM Ultrasound Integration Into a Busy Undergraduate Medical Education Landscape: Navigating the Current Challenges
John Pellerito, MD

8:45 AM–9:15 AM Convincing Deans of Ultrasound in Undergraduate Medical Education: Establishing a National Dialogue
Richard Hoppmann, MD

9:15 AM–9:45 AM How to Foster a Multidisciplinary Approach to Ultrasound Integration Into Undergraduate Medical Education
David Amponsah, MD, RDCS

9:45 AM–10:00 AM Staying on the Cutting Edge of Simulation and Technology in the Integration of Ultrasound in Undergraduate Medical Education
J. Christian Fox, MD, RDMS

10:00 AM–10:15 AM Questions and Answers
Musculoskeletal Ultrasound: Transition From Adults to Pediatrics

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

**Pompeian Ballroom**

*Moderator: Marnix van Holsbeeck, MD*

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

- **8:15 AM–9:05 AM** Upper Extremity Anatomy and Some Common Pathology Shared by Children and Adults
  
  *J. Antonio Bouffard, MD*

- **9:05 AM–9:45 AM** Lower Extremity Anatomy and Some Common Pathology Shared by Children and Adults
  
  *Gandikota Girish, MBBS*

- **9:45 AM–10:15 AM** Some Pediatric Extremity Cases: Trying to Ascend the Learning Curve
  
  *Michael Di Pietro, MD*

New Direction for Ultrasound: Nondelay and Sum Beam Formation

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

**Roman Ballroom III**

*Moderators: 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.

- **8:15 AM–8:35 AM** Why Nondelay and Sum Beam Formation?
  
  *Kai Thomenius, PhD, James Zagzebski, PhD*

- **8:35 AM–9:00 AM** Suppression of Image Clutter With Coherence-Based Beam Forming
  
  *Jeremy Dahl, PhD*

- **9:00 AM–9:25 AM** Ultrasound Tomography: Beyond B-Mode Imaging
  
  *Oliver Roy, PhD*

- **9:25 AM–9:50 AM** Image Formation by an Inverse Problem Solution
  
  *Bruno Madore*

- **9:50 AM–10:15 AM** Ultrasonic Limited Angle Tomography
  
  *Fong Ming Hooi, PhD*
**Scientific Sessions**

Learn about the latest research in ultrasound in concise oral presentations. * indicates presenter.

<table>
<thead>
<tr>
<th>Basic Science and Instrumentation: Instrumentation</th>
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<tr>
<td>Earn up to 1.5 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.</td>
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**Neopolitan Ballroom I/II**

**Moderators:** Kathy Nightingale, PhD, Michael Oelze, PhD

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Presenters</th>
</tr>
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<tbody>
<tr>
<td>11:00 AM—11:10 AM</td>
<td>Asymmetric Focal Beam Patterns Enable Super-Resolution Imaging</td>
<td>Kevin Parker,* Shujie Chen</td>
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<tr>
<td>11:10 AM—11:20 AM</td>
<td>Low-Cost Custom Phantom for Elevation Geometric Accuracy Measurement of Motor-Driven 3-Dimensional Ultrasound Probes</td>
<td>Yi Zhang,* Donald Tradup, Scott Stekel, Duane Meixner, Nicholas Hangiandreou</td>
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<tr>
<td>11:20 AM—11:30 AM</td>
<td>Color-Encoded Speckle Imaging: Duplex Rendering of Carotid Flow Dynamics at High Frame Rates</td>
<td>Billy Yiu, Alfred Yu*</td>
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<td>11:30 AM—11:40 AM</td>
<td>Bench and Animal Testing of a Wearable Long-Duration Therapeutic Ultrasound Device</td>
<td>Matthew Langer, Shane Stekel, Rebecca Taggart, Yuan Gu, George Lewis*</td>
</tr>
<tr>
<td>11:40 AM—11:50 AM</td>
<td>Long-term Doppler Signal Acquisition and Rapid Signal Characterization for a Peripheral Flow Assessment System</td>
<td>Inder Raj Makin,* Chandhana Pedapati, Deborah Heath</td>
</tr>
<tr>
<td>11:50 AM—12:00 PM</td>
<td>A Positioning and Acoustic Coupling Block for Automated Dual-Sided Ultrasound and Tomosynthesis Imaging of the Breast in the Mammographic Geometry</td>
<td>Sushma Alvar,* Mitchell Goodsitt, Oliver Kripfants, Chris Lashbrook, Ted Lynch, Marilyn Roubidoux, Eric Larson, Paul Carson</td>
</tr>
<tr>
<td>12:00 PM—12:10 PM</td>
<td>Ultrasound Segmentation to Improve the Ill-Posed Problem of Digital Breast Tomosynthesis Reconstruction</td>
<td>Xing Zhang, Jie Yuan, Ting Feng, Oliver Kripfants, Xueying Wang, Paul Carson*</td>
</tr>
<tr>
<td>12:10 PM—12:20 PM</td>
<td>In-Plane Needle Tracking During Ultrasound-Guided Procedures With an Optical Fiber Hydrophone</td>
<td>Jean Martial Mari,* Simeon West, Paul Beard, Adrien Desjardins</td>
</tr>
</tbody>
</table>
8th Annual Hands-on Diagnostic and Interventional Musculoskeletal Ultrasound: A Problem-Solving Approach

July 10–12, 2014
Mayo Clinic
Rochester, Minnesota

Register today at www.aium.org
1:30 PM–3:30 PM
Special Interest Sessions

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

Roman Ballroom IV
Moderator: Abid Irshad, MBBS
On completion of this session, participants should be able to recognize new trends in breast ultrasound.

1:30 PM–2:00 PM Incidental Findings in the Breast: How Do You Manage These?
Stamatia Destounis, MD

2:00 PM–2:30 PM Correlation of Breast Magnetic Resonance Findings With Ultrasound
Madeleine Lewis, MD

2:30 PM–3:00 PM Staging Breast Cancer With Ultrasound
A. Thomas Stavros, MD

3:00 PM–3:30 PM Problem Solving With Ultrasound
Julie Mack, MD

Current Ultrasound Integration Into Undergraduate Medical Education, Part 2
Earn up to 2.0 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

Milano Ballroom III/IV
Moderator: David Bahner, MD, RDMS
The objectives of this session are to: (1) describe current undergraduate and graduate medical education changes within ultrasound education and the role of advocacy; (2) describe successful methods for implementing milestones within ultrasound education from undergraduate to graduate medical education; and (3) understand the components of coordinating mentorship and leadership within undergraduate medical education and the governance of culture change.

1:30 PM–2:00 PM Advocacy for Ultrasound in Undergraduate Medical Education: Getting Over the Initial Hurdles
Matthew Dawson, MD, RDMS, RDCS

2:00 PM–2:30 PM Finding and Coordinating Mentors for Ultrasound Integration Into Medical Education
Zachary Soucy, DO

2:30 PM–3:00 PM Milestones in Ultrasound Education: Bridging the Gap Between Undergraduate, Graduate, and Continuing Medical Education
Resa Lewiss, MD, RDMS

3:00 PM–3:30 PM The Governance of Culture Change: Planting the Seeds of Change Within Undergraduate Medical Education
Creagh Boulger, MD

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

Octavius Ballroom 17
Moderator: Richard Barr, MD, 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.

1:30 PM–3:30 PM Hands-on Scanning
Richard Barr, MD, PhD, Giovanna Ferraioli, MD, Carlo Filice, PhD

Imaging of the Patient With Renal Failure
Earn up to 2.0 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

Pompeian Ballroom
Moderator: John Blebea, MD, MBA
The objective of this session is to discuss the role of ultrasound in the patient with renal failure from diagnosis to intervention.

1:30 PM–1:50 PM Workup of Renal Failure: Things to Look for With Ultrasound
Mark Lockhart, MD, MPH

1:50 PM–2:10 PM Venous Reflux Evaluation
Jennifer McDowell, MM, RVT, RDMS, RT

2:10 PM–2:30 PM Surgical Procedures for Hemodialysis: Shunts, Fistulas, and Windows
Harry Ma, MD, PhD

2:30 PM–2:50 PM Evaluation and Diagnosis of Complications With Hemodialysis Access
Mark Lockhart, MD, MPH

2:50 PM–3:10 PM Treatment Interventions for Complications of Hemodialysis Access
Alessandra Puggioni, MD

3:10 PM–3:30 PM Questions and Answers
New Ultrasound Applications in Soft Tissue Lesions: From Muscle to Skin

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

Neopolitan Ballroom I/II
Moderators: Levon Nazarian, 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.

1:30 PM–2:10 PM  Common Applications of Dermatologic Ultrasound
Ximena Wortsman, MD

2:10 PM–2:50 PM  Ultrasound of Muscle and Fat Atrophy
Viviane Khoury, MD

2:50 PM–3:30 PM  Ultrasound of Soft Tissue Lumps and Bumps
Jason Wagner, MD

Top 10 Most Common First- and Second-Trimester Anomalies: Don’t Miss This Show!

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

Milano Ballroom V–VII
Moderators: Phyllis Gianc, 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.

1:30 PM–2:30 PM  First Trimester
Phyllis Gianc, MDCM, BSc

2:30 PM–3:30 PM  Second Trimester
Anne Kennedy, MBBCh, MRCP

Translational Imaging: Bench to Bedside

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

Roman Ballroom I/II
Moderator: Terri Swanson, MA

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

1:30 PM–2:10 PM  Expanding the Spectrum of High-Resolution Ultrasound Imaging From Embryos to Neonates
Bradley Keller, MD

2:10 PM–2:50 PM  Contrast Sonography of Ovarian Masses
Arthur C. Fleischer, MD

2:50 PM–3:30 PM  Translational Ultrasound Molecular Imaging
Juergen Willmann, MD

1:30 PM–3:30 PM  Committee Meeting
Ultrasound Practice Accreditation Council Meeting
Capri

3:30 PM–4:00 PM  Refreshment Break in the Exhibit Hall
Octavius Ballroom

3:30 PM–4:00 PM  Community Meetings

Elastography
Octavius Ballroom 17

We will begin identifying courses for the 2015 Annual Convention. Now that both strain and shear wave elastography with measurements are approved by the US Food and Drug Administration for multiple vendors, we will be discussing ways to educate both sonographers and physicians on these new techniques. A discussion on how to promote the use of these new techniques and integrate them into routine clinical practice will be undertaken.

High-Frequency Clinical and Preclinical Imaging
Roman Ballroom I/II

We invite those with an interest in any aspect of high-frequency clinical or preclinical imaging to join colleagues for a discussion about educational needs in this area. We will be accepting recommendations for speakers and course topics for the 2015 Annual Convention, which will be a joint meeting with the World Federation for Ultrasound in Medicine and Biology.

Sonography
Milano Ballroom VIII

Join your fellow sonographers and sonologists in discussing the issues that affect us. Help us plan the 2015 Annual Convention. What type of courses do you want? Basic? Advanced? What are the topics that you would most like to learn about? Who are the individuals you value as teachers? Share your thoughts with us while earning CME credit.
4:00 PM–5:30 PM
Film Panel Sessions

**Obstetric Film Panel: Interesting Prenatal Cases With Neonatal Follow-up**
Earn up to 1.5 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

Milano Ballroom V–VII
Moderator: Jan 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) discuss differential diagnoses and management of challenging cases; and (3) describe the use of magnetic resonance imaging as an adjunct to ultrasound in managing difficult fetal cases.

**Difficult Diagnoses in the Pediatric Patient in the Emergency Department: Can Ultrasound Help?**
Earn up to 1.5 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

Roman Ballroom III
Moderator: Rob Goodman, MBBChir
Panelists: Lei Chen, MD, Rob Goodman, MBBChir, David Kessler, MD, MSc, RDMS, Arthur Meyers, MD

This case-based session will describe a variety of clinical situations in the pediatric emergency room where ultrasound can aid in the diagnosis and management of the child. The indications for ultrasound will be discussed and compared with other alternate imaging modalities.

4:00 PM–5:30 PM
Special Interest Sessions

**New Possibilities in Transducer/System Integration**
Earn up to 1.5 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

Neopolitan Ballroom III/IV
Moderators: Peter Lewin, MSc, PhD, Thomas Szabo, 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 will or do affect the way ultrasound imaging is being conducted.

4:00 PM–4:20 PM Repeatable, Operator-Independent Ultrasound: What Will It Take to Achieve This
Chris Daft, PhD

4:20 PM–4:40 PM Diagnostic Advantages by Combination of Imaging Modalities Using Customized Transducers
Christian Degel, MS

4:40 PM–5:00 PM Capacitive Micromachined Ultrasonic Transducers With Integrated Electronics for 3-Dimensional Imaging, Therapy, and Neuromodulation
B. Pierre Khuri-Yakub, PhD

5:00 PM–5:20 PM Volumetric Image Forming for Real-time 3-Dimensional Ultrasound Imaging Systems Using 2-Dimensional Capacitive Micromachined Ultrasonic Transducer-on-Application-Specific Integrated Circuit Arrays
Bae-Hyung Kim, PhD

5:20 PM–5:30 PM Questions and Answers

**Transcranial Doppler Ultrasound and Cerebrovascular Disease**
Earn up to 1.5 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

Roman Ballroom IV
Moderator: Tatjana Rundek, MD, PhD

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–4:45 PM Case Presentations
Zsolt Garani, MD

4:45 PM–5:30 PM Case Presentations
Andrei Alexandrov, MD, RVT
Scientific Sessions

Learn about the latest research in ultrasound in concise oral presentations.
* indicates presenter.

**Basic Science and Instrumentation: Tissue Characterization, 1**

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

Neopolitan Ballroom I/II
Moderators: Mark Holland, PhD, Phillip Levy, MD

- **4:00 PM–4:10 PM**
  - 1847200 Radiological Society of North America/Quantitative Imaging Biomarkers Alliance Ultrasound Shear Wave Speed Estimation in Elastic Phantoms: Sources and Magnitude of Variability in a Multicenter Study
    - Andrzej Milkowski, * Tim Hall, Brian Garra, Kathryn Nightingale, Mark Palmeri, Shigao Chen, Paul Carson

- **4:10 PM–4:20 PM**
  - 1847184 Shear Wave Speed Estimation in Calibrated Phantoms: Factors Affecting Bias
    - Kathryn Nightingale, * Mark Palmeri, Yufeng Deng, Stephen Rosenzweig, Ned Rouze

- **4:20 PM–4:30 PM**
  - 1845449 Detection of Steatosis Through Shear Speed Dispersion: A Rat Study
    - Christopher Barry, Christopher Hazard, Gang Cheng, Zaegyoo Hah, Kuang-Hsiang Chuang, Robert Mooney, Wenqing Cao, Deborah Rubens, Kevin Parker*

- **4:30 PM–4:40 PM**
  - 1829507 Quantitative Assessment of Arm Lymphedema Using a 2-Dimensional Ultrasound Strain Estimate Based on Nonrigid Registration: A Feasibility Study
    - Xiaofeng Yang, * Mylin Torres, Stephanie Kirkpatrick, Walter Curran, Tian Liu

- **4:40 PM–4:50 PM**
  - 1847647 Ultrasound Elastographically Calibrated Reference Material Development to Measure In Vivo Tissue Stiffness
    - Brandi Briggs, * Meghan Donnelly, Patrick Muljadi, Virginia Ferguson

- **4:50 PM–5:00 PM**
  - 1846951 A Comparison of 3-Dimensional In Vivo Acoustic Radiation Force Impulse Imaging With Multimodal Magnetic Resonance Imaging for Prostate Cancer Diagnosis
    - Mark Palmeri, * Kirema Garcia-Reyes, Rajan Gupta, Stephen Rosenzweig, Zachary Miller, Tyler Glass, Christopher Kauffman, Thomas Polascik, Kathryn Nightingale

- **5:00 PM–5:10 PM**
  - 1846293 Breast Ultrasound Tomography Using Virtual Point Sources
    - Lianjie Huang, * Youzuo Lin, Zhigang Zhang, Nghia Nguyen, Yassine Labyed, Kenneth Hanson, Daniel Sandoval, Michael Williamson

- **5:10 PM–5:20 PM**
  - 1846176 Ultrasound Waveform Tomography With Edge-Guided Regularization for Improving Characterization of Spiculated Breast Tumors
    - Youzuo Lin, * Lianjie Huang

- **5:20 PM–5:30 PM**
  - 1846281 Effects of Frame Rate on 2-Dimensional Speckle-Tracking–Derived Measurements of Myocardial Deformation in Premature Infants
    - Philip Levy, * Aura Sanchez Mejia, Tim Sekarski, Aaron Hamvas, James Miller, Mark Holland, Gautam Singh
Cardiovascular Ultrasound

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

Milano Ballroom I/II

Moderators: John Blebea, MD, MBA, Leslie Scoutt, MD

4:00 PM–4:07 PM

1835269

Should Ultrasound Be Used as Prophylactic Screening for Venous Thromboembolism in High-Risk Patients With Malignancy?

Katherine Kaproth-Joslin,* Charles Francis, Susan Hobbs, Deborah Rubens, Alok Khorana

4:07 PM–4:14 PM

1847361

Associations of Common Carotid Artery Doppler Velocities With Cardiac Function

Jean Marie Alessi-Chinetti,* Joseph Polak, Ayan Patel, James Estes

4:14 PM–4:21 PM

1846709

Accreditation Status and Geographic Location of Outpatient Vascular Testing Facilities Among Medicare Beneficiaries: The VALUE Study

Scott Brown,* Kefeng Wang, Chanhui Dong, Mary Beth Farrell, Gary Heller, Heather Gornik, Marge Hutchisson, Laurence Needleman, James Benenati, Michael Jaff, George Meier, Susana Perese, Phillip Bendick, Sandra Katanick, Tatjana Rundek

4:21 PM–4:28 PM

1838100

Value of Complete Lower Extremity Ultrasound in Patients Undergoing Computed Tomographic Pulmonary Angiography

Gajan Sivananthan,* Neil Halin, James Estes, Jean Alessi-Chinetti, Joseph Polak

4:28 PM–4:35 PM

1845382

Automated Generalized Intima-Medial Thickness Measurement on Heavy-Plaque Carotid Ultrasound Images

Tadashi Araki, Nobutaka Ikeda, Filippo Molinari, Luca Saba, Andrew Nicolaides, Jasjit Suri*

4:35 PM–4:42 PM

1844975

Analysis of the Accuracy of Clinical Doppler Ultrasound Volume Flow Rate Measurements

Donald Tradup,* Yi Zhang, Nicole Strissel, Heather Hatz, Michelle Waletzko, Scott Stekel, Thanila Macedo, Nicholas Hang/andreu

4:42 PM–4:49 PM

1795527

Quantitative Detection of the Elasticity of the Carotid Artery and Stability of Vulnerable Plaques in Patients With Metabolic Syndrome Using Acoustic Radiation Force Impulse Imaging

Su Yijin,* Du Lianfang, Guo Chunni

4:49 PM–5:03 PM

1841114

Stimulation of the Rat Heart Using Pulsed Ultrasound: Possible Therapeutic Application in Cardiology as an Alternative to Leadless Pacing

Olivia Coiado,* Rita Miller, Elaine Buiocci, William O’Brien Jr

5:03 PM–5:10 PM

1845399

Automated Identification of Calcium Coronary Lesion Frames From Intravascular Ultrasound Videos

Tadashi Araki, Nobutaka Ikeda, Filippo Molinari, Nilanjan Dey, Suvojit Acharyee, Luca Saba, Andrew Nicolaides, Jasjit Suri*

4:00 PM–5:30 PM

Committee Meeting

Endowment for Education and Research Committee Meeting

Siena

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.

Gynecologic Ultrasound

Pompeian Ballroom

All physicians and sonographers who perform ultrasound examinations in gynecology are welcome to this session. We will be identifying topics of interest to the members for the educational sessions for the 2015 Annual Convention, identifying potential course moderators/speakers, new topics, and old favorites for educational courses, and the discussing promotion of gynecologic ultrasound in health care training.

Musculoskeletal Ultrasound

Milano Ballroom III/IV

Anyone using ultrasound to address musculoskeletal issues is encouraged to attend this meeting of the Musculoskeletal Ultrasound Community. It’s an opportunity to discuss issues affecting physicians and sonographers, suggest ways to address educational needs, and recommend course topics and speakers for the 2015 Annual Convention.
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.

**Basic Science and Instrumentation**

Neopolitan Ballroom I/II

The Basic Science and Instrumentation Community holds a 1-hour meeting during each Annual Convention. This meeting is open to everyone and always benefits from the active participation of the audience. One major focus of the meeting is to lay plans for focused sessions to be held at the following year’s Annual Convention. All members of the audience are encouraged to offer suggestions and to engage in a dialogue regarding the strengths and timeliness of the proposals presented. After that discussion, a list of potential topics is selected, and the audience votes to rank those topics, the highest ranking of which are then submitted to the Annual Convention Committee for consideration. Other matters of importance to the Basic Science and Instrumentation Community are also discussed, with opportunities for members of the audience to offer their comments.

**Emergency and Critical Care Ultrasound**

Roman Ballroom III

The use of ultrasound is growing in patients with emergency and critical care issues. We encourage you to join your colleagues as we discuss the educational needs of clinicians in this vital area. Let your voice be heard as we make plans for the 2015 Annual Convention.

**Neurosonology**

Roman Ballroom IV

The Neurosonology Community meeting is open to all individuals (sonographers and physicians) interested in the role of ultrasonography in assessing neurologic conditions. This includes a wide array of conditions and patient populations ranging from topics as divergent as the role of transcranial Doppler ultrasound in the assessment of adults with stroke to ultrasound imaging of the newborn spine. We encourage your participation and appreciate your feedback regarding the value of this year’s neurosonology sessions. We seek your ideas and opinions regarding planning for next year’s Just Images Sessions, Hands-on Sessions, Film Panels Sessions, and Comprehensive Refresher Sessions. We welcome the opportunity to collaborate with other communities on topics of shared interest.

**Obstetric Ultrasound**

Milano Ballroom V–VII

Obstetrics is still the predominant area in which ultrasound is used, but the need for education has never been greater. Join us in discussing the hot topics in obstetric ultrasound. We want your input and suggestions for the educational format, topics, and speakers you would most like at the 2015 Annual Convention.
Tuesday, April 1 • 10:30 AM–12:30 PM and 3:30 PM–5:30 PM • Capri

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

Speaker: Therese Cooper, BS, RDMS, AIUM director of accreditation
Hands-on Staff: Jennifer Drabo, BS, RDMS, AIUM clinical accreditation coordinator

During this interactive question-and-answer tutorial, attendees will learn about standards for examination protocols, personnel, quality assurance, record keeping, and safety. The accreditation staff will guide potential applicants through the online application. A limited number of computers will be provided for those interested. We encourage you to bring personal laptops and/or tablets.

Specialties accredited by the AIUM include:
- Abdominal/general ultrasound;
- Breast ultrasound;
- Dedicated musculoskeletal ultrasound;
- Dedicated thyroid/parathyroid ultrasound;
- Fetal echocardiography;
- Gynecologic ultrasound;
- Head and neck ultrasound (available July 1);
- Obstetric or trimester-specific obstetric ultrasound; and
- Urologic ultrasound.

AIUM accreditation shows your practice’s commitment to providing the best ultrasound services and demonstrates that your practice meets the quality assurance requirements of a growing number of insurance companies.

The Measure of Excellence

Have questions but can’t attend either tutorial? Come visit us in Capri.

Saturday, March 29
10:00 AM–1:00 PM
Sunday, March 30
11:00 AM–1:00 PM
3:30 PM–5:30 PM
Monday, March 31
7:00 AM–11:00 AM
Tuesday, April 1
7:00 AM–9:00 AM
Wednesday, April 2
9:00 AM–1:00 PM
### Tuesday, April 1

**Convention**

#### Day at a Glance

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>6:30 AM–4:00 PM</td>
<td>Convention Registration Open</td>
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<tr>
<td>6:30 AM–10:15 AM</td>
<td>Coffee Service in Registration Area/Exhibit Hall</td>
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<tr>
<td>7:00 AM–8:00 AM</td>
<td>Just Images and Comprehensive Refresher Sessions</td>
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<tr>
<td>7:00 AM–8:00 AM</td>
<td><em>Journal of Ultrasound in Medicine</em> Editorial Board Meeting</td>
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<tr>
<td>8:15 AM–10:15 AM</td>
<td>Special Interest Sessions</td>
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<td></td>
<td>Hands-on Special Interest Session</td>
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<tr>
<td></td>
<td>Three- and Four-Dimensional Volume Data Set Manipulation: Gynecology</td>
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<tr>
<td>9:30 AM–4:30 PM</td>
<td>E-Posters Open for Viewing</td>
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<tr>
<td>9:30 AM–4:30 PM</td>
<td>Exhibit Hall Open</td>
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<tr>
<td>10:15 AM–11:00 AM</td>
<td>Refreshment Break in the Exhibit Hall</td>
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<td>Cardiovascular Ultrasound Community Meeting</td>
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<td>Contrast-Enhanced Ultrasound Community Meeting</td>
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<td>Interventional-Intraoperative Ultrasound Community Meeting</td>
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<td>Sound Judgment Clinical Vignette Task Force Committee Meeting</td>
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<tr>
<td>10:30 AM–12:30 PM</td>
<td>Accreditation Tutorial</td>
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<td>Three- and Four-Dimensional Volume Data Set Manipulation: Obstetrics</td>
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<tr>
<td>11:00 AM–12:30 PM</td>
<td>Special Interest Session</td>
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<td>Scientific Sessions</td>
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<tr>
<td>12:00 PM–1:30 PM</td>
<td>Annual Convention Committee Meeting</td>
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<tr>
<td>12:30 PM–1:30 PM</td>
<td>Meet the <em>Journal of Ultrasound in Medicine</em> Editors: Question-and-Answer Session</td>
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<tr>
<td>12:30 PM–1:30 PM</td>
<td>Lunch in the Exhibit Hall</td>
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<tr>
<td>1:00 PM–3:00 PM</td>
<td>Three- and Four-Dimensional Volume Data Set Manipulation: Obstetrics</td>
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<td>1:30 PM–3:15 PM</td>
<td>Hands-on Special Interest Session</td>
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<tr>
<td>1:30 PM–3:30 PM</td>
<td>Special Interest Sessions</td>
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<tr>
<td>2:00 PM–5:00 PM</td>
<td>Executive Committee Meeting</td>
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<tr>
<td>3:30 PM–4:00 PM</td>
<td>Refreshment Break in the Exhibit Hall</td>
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<td>3:30 PM–5:30 PM</td>
<td>Accreditation Tutorial</td>
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<td></td>
<td>Three- and Four-Dimensional Volume Data Set Manipulation: Fetal Echocardiography</td>
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<tr>
<td>3:45 PM–5:30 PM</td>
<td>Hands-on Special Interest Session</td>
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<td>4:00 PM–5:30 PM</td>
<td>Film Panel Sessions</td>
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<td>Special Interest Sessions</td>
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<td>Scientific Sessions</td>
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<td>General and Abdominal Ultrasound Community Meeting</td>
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<td>Clinical Standards Committee Meeting</td>
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<td>7:00 PM–11:00 PM</td>
<td>Leadership Banquet (by invitation only)</td>
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</tbody>
</table>
7:00 AM–8:00 AM

**Just Images and Comprehensive Refresher Sessions**

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

*Roman Ballroom III*
**Moderator:** Ronald Silverman, PhD

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

**7:00 AM–7:30 AM**
Photoacoustic Tomography: Ultrasonically Breaking Through the Optical Diffusion and Diffraction Limits
*Lihong Wang, PhD*

**7:30 AM–8:00 AM**
Photoacoustic Imaging: From the Basic Science to the Next Generation of Diagnostic/Therapeutic Devices
*Stanislav Emelianov, PhD*

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**As Low as Reasonably Achievable (ALARA): Don’t Gamble With Power**
Earn up to 1.0 AMA PRA Category 1 Credit™ (accepted by the ARDMS) or ARRT Category A Credit.

*Neopolitan Ballroom I/II*
**Moderator:** Jacques Abramowicz, MD

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.

**7:00 AM–7:30 AM**
Don’t Play Blackjack With the Fetus: Know Your Indices
*Jacques Abramowicz, MD*

**7:30 AM–8:00 AM**
Accreditation Is Not a Game of Chance: Show Your Indices
*Therese Cooper, BS, RDMS*

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**Anatomy and Pathology of the Adolescent Hip**
Earn up to 1.0 AMA PRA Category 1 Credit™ (accepted by the ARDMS) or ARRT Category A Credit.

*Pompeian Ballroom*
**Moderator:** Joseph Craig, 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.

**7:00 AM–8:00 AM**
Anatomy and Pathology of the Adolescent Hip
*Marnix van Holsbeeck, MD*
Lower Extremity Arterial and Venous Imaging: Pitfalls and Misdiagnoses

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

Neopolitan Ballroom III/IV
Moderator: Leslie Scottt, MD

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.

7:00 AM–7:30 AM Arterial Lower Extremity Ultrasound Imaging: Pitfalls and Challenges
Gowthaman Gunabushanam, MD

7:30 AM–8:00 AM Venous Imaging: Pitfalls and Misdiagnosis
Salvatore LaRusso, MEd, RDMS, RT(R)

Pediatric Emergencies and Their Simulators: Ultrasound Evaluations

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

Milano Ballroom I/II
Moderator: Leann Linam, 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.

7:00 AM–7:20 AM Testicular Torsion
Martha Munden, MD

7:20 AM–7:40 AM Ovarian Torsion
Leann Linam, MD

7:40 AM–8:00 AM Midgut Volvulus/Hypertrophic Pyeloric Stenosis
Steven Kraus, MD

Sonographic Evaluation of the Neonatal Brain

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

Roman Ballroom IV
Moderator: Sara O’Hara, 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.

7:00 AM–7:20 AM Case Presentation
Martha Munden, MD

7:20 AM–7:40 AM Case Presentation
Kimberly Dannull, MD

7:40 AM–8:00 AM Case Presentation
Henrietta Kotlus Rosenberg, MD

7:00 AM–8:00 AM Committee Meeting

Journal of Ultrasound in Medicine Editorial Board Meeting

8:15 AM–10:15 AM Special Interest Sessions

Clinical Applications of Ultrasound Contrast, Part 1

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

Roman Ballroom III
Moderator: Ulrike Hamper, MD, MBA

On completion of this session, 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.

8:15 AM–8:39 AM Update on the European and World Federation for Ultrasound and Medicine in Biology Contrast-Enhanced Ultrasound Guidelines
David Cosgrove, MA, MSc

8:39 AM–9:03 AM Update on the Status of Contrast-Enhanced Ultrasound in the United States
Richard Barr, MD, PhD

9:03 AM–9:27 AM How to Integrate Contrast-Enhanced Ultrasound Into Clinical Practice
Cynthia Peterson, MPH, RT, RDMS, RVT

9:27 AM–9:51 AM Contrast-Enhanced Ultrasound in Liver Imaging
Giovanna Ferraioli, MD

9:51 AM–10:15 AM Contrast-Enhanced Ultrasound for Genitourinary Imaging (to Include Renal and Prostate)
Jean-Michel Correas, MD, PhD
Fetal Tumors

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

Milano Ballroom V–VII
Moderator: Israel Meizner, MD

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

8:15 AM–8:25 AM Introduction and Classification
Israel Meizner, MD

8:25 AM–8:55 AM Tumors of the Brain, Face, and Neck
Paula Woodward, MD

8:55 AM–9:25 AM Tumors of the Chest and Abdomen
Paula Woodward, MD

9:25 AM–9:50 AM Sacrococcygeal Teratoma
Paula Woodward, MD

9:50 AM–10:15 AM Miscellaneous and Closing Remarks
Israel Meizner, MD

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

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

Roman Ballroom I/II
Moderator: Eitan Dickman, MD, RDMS

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 fluid status assessment and overall patient management.

David Riley, MD, MSc, RDMS, RDCS, RVT, RMSK

8:55 AM–9:35 AM The RUSH Protocol in Action: Real Cases From the Emergency Department
Gerardo Chiricolo, MD

9:35 AM–10:15 AM A Review of Sonographic Assessment of the Fluid Status in Hypotension
Romolo Gaspari, MD, PhD, RDMS

Problem-Oriented Pediatric Ultrasound

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

Milano Ballroom I/II
Moderator: Harris L. Cohen, 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.

8:15 AM–8:55 AM The Vomiting Neonate
Steven Kraus, MD

8:55 AM–9:35 AM Upper Abdominal Pain
Lynn Fordham, MD

9:35 AM–10:15 AM Right Lower Quadrant and Pelvic Pain in the Child and Adolescent
Harris L. Cohen, MD

9:35 AM–10:15 AM Scrotal Pain in the Child and Adolescent
Harriet Paltiel, MD
### Ultrasound Research Systems

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

**Neopolitan Ballroom I/II**

**Moderators:** Nicolas Rognin, PhD, Thaddeus Wilson, PhD, DABR

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.

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Presenter</th>
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<tbody>
<tr>
<td>8:15 AM–8:30 AM</td>
<td>Architecture of Ultrasound Research Systems</td>
<td>Nicolas Rognin, PhD</td>
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<tr>
<td>8:30 AM–8:45 AM</td>
<td>Experimental Research in Ultrasound and Photoacoustic Imaging with Open Medical Scanners</td>
<td>Jean-Marital Mari, PhD</td>
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<td>8:45 AM–9:00 AM</td>
<td>Theranostic Research on a Customized High-end Platform</td>
<td>David Mills, PhD</td>
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<tr>
<td>9:00 AM–9:15 AM</td>
<td>Vantage: A Real-time Multichannel Acquisition and Processing System for Ultrasound Research and High-Intensity Focused Ultrasound Applications</td>
<td>Ronald Daigle, PhD</td>
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<tr>
<td>9:15 AM–9:30 AM</td>
<td>Clinical Research With Ultrafast Imaging</td>
<td>Jeremy Bercoff, PhD</td>
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<tr>
<td>9:30 AM–9:45 AM</td>
<td>ZONE Sonography: Data Processing, Information Content, and Research Opportunities</td>
<td>Glen McLaughlin, PhD</td>
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<td>9:45 AM–10:00 AM</td>
<td>Research Interface Design for Clinical Ultrasound</td>
<td>Kris Dickie</td>
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<tr>
<td>10:00 AM–10:15 AM</td>
<td>Questions and Answers</td>
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### Vascular Emergencies: Diagnostic Imaging and Interventions

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

**Pompeian Ballroom**

**Moderator:** John Blebea, MD, MBA

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.

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<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Presenter</th>
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<tbody>
<tr>
<td>8:15 AM–8:35 AM</td>
<td>Abdominal Vascular Emergencies: Ruptures and Occlusions</td>
<td>Margarita Revzin, MD, MS</td>
</tr>
<tr>
<td>8:35 AM–8:55 AM</td>
<td>Upper Extremity Embolization and Ischemia</td>
<td>Roy Fujitani, MD</td>
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<tr>
<td>8:55 AM–9:15 AM</td>
<td>Lower Extremity Arterial and Venous Emergencies</td>
<td>Gowthaman Gunabushanan, MD</td>
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<td>9:15 AM–9:35 AM</td>
<td>Options for Treatment of Vascular Emergencies—Open and Minimally Invasive</td>
<td>Kevin Taubman, MD</td>
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<tr>
<td>9:35 AM–9:55 AM</td>
<td>Pseudoaneurysms: Diagnosis and Treatment</td>
<td>Richard Fowl, MD</td>
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<tr>
<td>9:55 AM–10:15 AM</td>
<td>Questions and Answers</td>
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### 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.

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.

**GE Healthcare Faculty:** Deborah D’Agostini, RDMS, Todd Deutch, MD, Sharon Horton, RT, RDMS, Cheryl Vance, MA, RT, RDMS, RV

**Philips Healthcare Faculty:** William Brown, MD, Elisa Housman, BS, RDMS
10:15 AM–11:00 AM
Refreshment Break in the Exhibit Hall
Octavius Ballroom

10:15 AM–11:00 AM
Community Meetings
Earn up to 0.75 AMA PRA Category 1 Credit™
(accepted by the ARDMS) or ARRT Category A Credit.

CARDIO
Cardiovascular Ultrasound
Pompeian Ballroom
The Cardiovascular Ultrasound Community welcomes you to attend a 1-hour planning meeting that will cover topics for the 2015 Annual Convention, as well as possible speakers and moderators. Everyone is invited to attend and will receive CME credit for participation. This community is responsible for addressing vascular imaging from diagnosis to treatment and postintervention follow-up. We will solicit your ideas and suggestions, which will steer the education offered throughout the year. Please join us and get plugged into the AIUM’s Cardiovascular Ultrasound Community.

CEUS
Contrast-Enhanced Ultrasound
Roman Ballroom III
At the Contrast-Enhanced Ultrasound Community meeting, we will review and evaluate this year's contrast-enhanced ultrasound sessions and ask for feedback from the membership and suggestions for topics and speakers for next year’s meeting. Anyone with an interest in the application of contrast-enhanced ultrasound is encouraged to attend.

CIIIO
Interventional-Intraoperative Ultrasound
Neopolitan Ballroom I/II
The Interventional-Intraoperative Ultrasound Community discusses the most pertinent and latest developments in ultrasound-guided interventional procedures and ways to educate attendees on different topics. We will review the courses, topics, and speakers to date for educational impact and discuss relevant topics and possible speakers for the upcoming 2015 Annual Convention and future AIUM publications and webinars.

10:15 AM–11:00 AM
Committee Meeting
Sound Judgment Committee
Modena

10:30 AM–12:30 PM
Accreditation Tutorial
Earn up to 2.0 AMA PRA Category 1 Credits™
(accepted by the ARDMS) or ARRT Category A Credits.
Capri
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
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.
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.
GE Healthcare Faculty: Deborah D’Agostini, RDMS, Margaret Carr, MD, Sharon Horton, RT, RDMS, Cheryl Vance, MA, RT, RDMS, RVT
Turin
Philips Healthcare Faculty: Luís Gonçalves, MD
Trevi

11:00 AM–12:30 PM
Special Interest Session
Conducting Ultrasound Research and Getting It Published
Earn up to 2.0 AMA PRA Category 1 Credits™
(accepted by the ARDMS) or ARRT Category A Credits.
Milano Ballroom VIII
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.

12:30 PM–1:30 PM
Meet the Journal of Ultrasound in Medicine Editors: Question-and-Answer Session
Milano Ballroom VIII

AIUM Accreditation
Learn more about AIUM ultrasound practice accreditation. If you can’t make it to the tutorial, accreditation staff are available to answer your questions in Capri each day. See page 44 for hours and more information.
11:00 AM–12:30 PM
Scientific Sessions
Learn about the latest research in ultrasound in concise oral presentations.
* indicates presenter.

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

Milano Ballroom I/II
Moderator: Ethan Halpern, MD
11:00 AM–11:20 AM **Anchor Speaker: Ethan Halpern, MD**

**1847642**
A Prospective Comparative Study of Skin Toxicity Between Standard and Hypofractionated Breast Cancer Radiotherapy Using Quantitative Ultrasound Imaging
Tian Liu,* Xiaofeng Yang, Andrew Miller, Walter Curran, Mylin Torres

11:20 AM–11:27 AM
**1847645**
Initial Experience With the New York State Breast Density Inform Law at a Community-Based Breast Center
Stamatia Destounis,* Andrea Arieno, Renee Morgan

11:34 AM–11:41 AM
**1846503**
Detection of Breast Implant Rotation Using In-Office High-Resolution Ultrasound
Mark Schafer,* William Adams, Serena Chase

11:41 AM–11:48 AM
**1847658**
Simulated Impact of a Coupling Medium on Diffractive Losses in Mammographic and Prone Breast Imaging
Sushma Alvar,* Paul Carson, Oliver Kripfgans

11:48 AM–12:02 PM
**1847253**
Utility of the “Incident Angle of the Plunging Artery” for Quantitative Evaluation of Breast Tumor Vascularity Takeshi Umemoto,* Ei Ueno, Eriko Tohno, Isamu Morishima

**1847269**
Microcalcifications Versus Artifacts: Evaluation of a New Ultrasound Image-Processing Technique to Identify Breast Microcalcifications in a Screening Population
Priscilla Machado,* John Eisenbrey, Barbara Cavanaugh, Flemming Forsberg

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

Milano Ballroom V–VII
Moderators: Jodi Lerner, MD, Ilan E. Timor-Tritsch, MD
11:00 AM–11:20 AM **Anchor Speaker: Ilan E. Timor-Tritsch, MD**

**1839897**
Quality Improvement Initiative to Reduce Unnecessary Follow-up Ultrasound Examinations for Adnexal Cysts
Jamie Hui,* Beverly Hashimoto, David Coy, Craig Blackmore, Dawna Kramer

11:20 AM–11:27 AM
**1847047**
Follicular Count as a Predictor of Concurrent Metabolic Complications of Polycystic Ovarian Syndrome: A Cross-sectional Study
Laura Detti,* Rebecca Uhlmann, Christine Carter, Uzma Naeem, Lucy Williams, Heather Jeffries

11:34 AM–11:41 AM
**1844333**
Prevalence of Hydroureteronephrosis Among Women With Advanced Pelvic Organ Prolapse
Christina Dancz,* Daphne Walker, Diane Thomas, Begum Ozel

11:41 AM–11:48 AM
**1846631**
Improvement in Hydrouretonephrosis After Pessary Placement: A Self-Selected Interventional Trial
Christina Dancz,* Daphne Walker, Nuzhat Hussain, Diane Thomas, Begum Ozel

11:48 AM–12:02 PM
**1847045**
Placental Stiffness Measurement by Shear Wave Elastography: Value in the Diagnosis of Preeclampsia
Ismail Mihmanli,* Fahrettin Kilic, Yasemin Kurdoglu, Mehmet Yuksel, Ibrahim Adatelevi, Fethi Ustabasiglu, Mahmut Oncul, Riza Madazli, Mehmet Yilmaz, Fatih Kantarci

12:02 PM–12:09 PM
**1829986**
Prenatal Diagnosis of Placenta Accreta: Can We Do Better?
Tania Hall, Joseph Wax,* F. Lee Lucas, Angelina Cartin, Michael Jones, Michael Pinette
Conventional & Tuesday, April 1, 2014

12:09 PM–12:16 PM
1829985  Prenatal Diagnosis of Placenta Accreta: Impact on Maternal and Neonatal Outcomes
Tania Hall, Joseph Wax,* F. Lee Lucas, Angelina Cartin, Michael Jones, Michael Pinette

12:16 PM–12:23 PM
1847378  Incidental Findings of Ovarian Cyst Assessment on Ultrasonography in Nonpregnant Premenopausal Women
Arash Anvari,* Anthony Samir

High-Frequency Clinical and Preclinical Imaging
Earn up to 1.5 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.
Neopolitan Ballroom I/II
Moderator: Ernest Feleppa, PhD

11:00 AM–11:25 AM
Anchor Speaker: Ronald Silverman, PhD

11:25 AM–11:35 AM
1847367  Combining High-Frequency Ultrasound and Optical Tomography for Identification of Keratoconus
Ronald Silverman,* Raksha Urs, Michael Ha, Arindam Choudhury, Timothy Archer, Marine Gobbe, Dan Reinstein

11:35 AM–11:45 AM
1847021  Time-Resolved Scanning Acoustic Microscopy of Atherosclerotic Plaques
John Allen,* Pavlos Anastasiadis, Joshua Rychak, Michelle Matter

11:45 AM–11:55 AM
1846610  Pharmacokinetic Analysis of IRDye 800CW 2-DG in the Mouse Kidney by Photoacoustic Imaging
Andrew Heimiller,* Minalini Lakshman, Joy Kovar, Lela Cheung, Dan Draney, Andrew Needles, Catherine Theodoropoulos

11:55 AM–12:05 PM
1841690  Application of Radiofrequency Ultrasound to Monitor Progression of Liver Fibrosis in the Rat
Terri Swanson,* Kristin Reibling, Catharine Andresen, Theresa Tuthill, Cedo Bagi

12:05 PM–12:15 PM
1829153  Evaluation of Hypopharyngeal Carcinoma Using High-Resolution Ultrasonography: Comparison With Computed Tomography
Nilu Dhoot

12:15 PM–12:23 PM
1847427  High- and Low-Frequency Subharmonic Imaging of Angiogenesis in a Murine Breast Cancer Model
Manasi Dahibawkar,* Aditi Gupta, Mark Forsberg, Samantha Jaffe, Kelly Dulin, Andrew Marshall, Valgerdur Halldorsdottir, Anya Forsberg, Jaydev Dave, Priscilla Machado, Traci Fox, Ji-Bin Liu, Flemming Forsberg

11:00 AM–12:30 PM
New Investigator Award Session
Earn up to 1.5 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.
Roman Ballroom IV
Moderators: Wui Chong, MD, Phylis Blanc, MDCM, BSc, Luis Izquierdo, MD, MBA, CPE

11:00 AM–11:07 AM
1847691  Novel Shear Wave Motion-Tracking Technique With Pulse Inversion Harmonic Imaging for Quantitative and Noninvasive Assessment of Myocardial Stiffness
Pengfei Song,* Matthew Urban, Sorin Pislaru, Cristina Pislaru, Heng Zhao, Shigao Chen, James Greenleaf

11:07 AM–11:14 AM
1847257  Analysis of Variations in Clinical Doppler Ultrasound Peak Velocity Measurements
Yang Zhang,* Scott Stekel, Donald Tradup, Thanilha Macedo, Nicholas Hangiandreou

11:14 AM–11:21 AM
1830139  Production of Albumin-Coated Microbubbles Loaded With Polylactide Nanoparticles
Marianne Gauthier,* Qian Yin, Jianjun Cheng, William O’Brien Jr

11:21 AM–11:28 AM
1847368  Three-Dimensional Subharmonic Parametric Maps for Visualization of Breast Lesion Vasculature
Anush Sridharan,* John Eisenbrey, Kelly Dulin, Samantha Jaffe, Priscilla Machado, Daniel Merton, Haydee Ojeda-Fournier, Robert Mattrey, Kirk Wallace, Carl Chalek, Kai Thomenius, Flemming Forsberg

11:28 AM–11:35 AM
1834978  Utility of Neck Ultrasound in Preoperative Planning of Lateral Neck Dissection in Thyroid Cancer Patients
Stephanie Coquia,* Franco Verde, Sheila Sheth, Ulrike Hamper

11:35 AM–11:42 AM
1847570  Preripening Versus Postripening Sonographic Assessment of the Cervix for Predicting Successful Induction of Labor
Marcos Cordoba,* Ana Monteagudo, Ashwin Jadhav, Cara Dolin, Li Jin Joo, Ilan E. Timor-Tritsch
11:42 AM–11:49 AM
1845505  Biophysical Profile Versus Fetal Myocardial Performance Index for Antenatal Evaluation of Intrauterine Growth Restriction
Ahmed Nassr, * Alaaeldin Youssef, Mahmoud Zakherah, Alaa Ismail, Brian Brost

11:49 AM–11:56 AM
1847476  Impact of First-Trimester Screening Programs in a Large Academic Practice
Sebastian Larion, * Letty Romary, Margaret Mlynarczyk, Vickie Ingram, Alfred Abuhannad, Steven Warsof

11:56 AM–12:03 PM
1847380  Reliability of Freehand 3-Dimensional Ultrasound to Measure Thrombus Volume in Patients With Acute Deep Vein Thrombosis
Limin Zhao, * Meghan Kampmann, Steven Prior, Kevin Caldwell, Melita Braganza, Sue McEvey, Brajesh Lal

12:03 PM–12:10 PM
1847512  Preoperative Breast Tumor Size: Comparison of Contrast-Enhanced Dedicated Breast Computed Tomography and Ultrasound
Kathleen Khong, * Karen Lindfors, Machelle Wilson, John Boone, Shadi Aminololama-Shakeri

12:10 PM–12:17 PM
1846924  Development of a 2- and 3-Dimensional Quantitative Ultrasound Method to Assess Radiation-Induced Vaginal Fibrosis in Women After Radiotherapy for Gynecologic Cancers
Xiaofeng Yang, * Joseph Shelton, Peter Rossi, Deborah Bruner, Srinidhi Tridandapani, Tian Liu

12:17 PM–12:24 PM
1844522  Precise Quantification of Sonographic Forces: A First Step Toward Reducing Ergonomic Injury
Manish Dhyani, * Matthew Gilbertson, Arash Anvari, Brian Anthony, Anthony Samir

12:00 PM–1:30 PM
Committee Meeting
Annual Convention Committee
Sorrento

12:30 PM–1:30 PM
Lunch in the Exhibit Hall
Octavius Ballroom

1:00 PM–3:00 PM
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.

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.

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

Philips Healthcare Faculty: Luis Goncalves, MD

1:30 PM–3:15 PM
Special Interest Session
T2 Hands-on Pediatric Ultrasound

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

Octavius Ballroom 17

Moderator: William Shiels II, DO

Hands-on Faculty: Shwetta Bhatt, MD, Nathalie Bureau, MD, Michael Di Pietro, MD, Ulrike Hamper, MD, Kenneth Lee, MD, Theodore Miller, MD, John Pellerito, MD, Humberto Rosas, MD, Leslie Scoutt, M.D., Hisham Tchelepi, MD

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**

**Abdominal and Pelvic Pain in the Emergency Room**

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

**Roman Ballroom I/II**  
**Moderator:** Leslie Scoutt, MD

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

**1:30 PM–2:00 PM**  
**Thinking Beyond the Gallbladder: Ultrasound Evaluation of Abdominal Pain**  
**Deborah Rubens, MD**

**2:00 PM–2:30 PM**  
**Gynecologic Causes of Pelvic Pain**  
**Ulrike Hamper, MD, MBA**

**2:30 PM–3:00 PM**  
**Ultrasound in the Evaluation of Ectopic Pregnancy**  
**James Shwayder, MD, JD**

**3:00 PM–3:30 PM**  
**Nongynecologic Causes of Pelvic Pain**  
**Oksana Baltarowich, MD**

**Clinical Applications of Ultrasound Contrast, Part 2**

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

**Milano Ballroom I/II**  
**Moderator:** Arthur C. Fleischer, 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.

**1:30 PM–1:54 PM**  
**Contrast-Enhanced Ultrasound for Inflammatory Bowel Disease Imaging**  
**Stephanie Wilson, MD**

**1:54 PM–2:18 PM**  
**Contrast-Enhanced Ultrasound for Scrotal Imaging**  
**Paul Sidhu, MD**

**2:18 PM–2:42 PM**  
**Use of Contrast-Enhanced Ultrasound in the Perioperative Liver**  
**Jean Ayoub, MD, PhD, MS**

**2:42 PM–3:06 PM**  
**Contrast-Enhanced Ultrasound of Renal Transplants**  
**Paul Sidhu, MD**

**3:06 PM–3:30 PM**  
**Contrast-Enhanced Ultrasound in Gynecology**  
**Nitin Chaubal, MD, DMRD, FICR**

**First-Trimester Fetal Cardiac Imaging**

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

**Milano Ballroom V–VII**  
**Moderator:** Reem Abu-Rustum, MD

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

**1:30 PM–1:54 PM**  
**Evaluating the Fetal Heart in the First Trimester: The Basics**  
**Reem Abu-Rustum, MD**

**1:54 PM–2:18 PM**  
**Three- and Four-Dimensional First-Trimester Fetal Cardiac Imaging**  
**Liat Gindes, MD**

**2:18 PM–2:42 PM**  
**Increased Nuchal Translucency: To Scan or to Karyotype**  
**Yaron Zalel, MD**

**2:42 PM–3:06 PM**  
**Detailed First-Trimester Fetal Echocardiography**  
**Alfred Abuhamad, MD**

**3:06 PM–3:30 PM**  
**Interesting Cases**  
**Lisa Hornberger, MD**

**Head and Neck Ultrasound**

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

**Milano Ballroom III**  
**Moderator:** Wui Chong, MD

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

**1:30 PM–2:00 PM**  
**Thyroid and Lymph Node Biopsies**  
**Wui Chong, MD**

**2:00 PM–2:30 PM**  
**Sonographic Assessment of the Neck in Patients With Squamous Cell Carcinoma**  
**Jason Wagner, MD**

**2:30 PM–3:00 PM**  
**Thyroid and Parathyroid Nodal Disease**  
**Kathryn Robinson, MD**

**3:00 PM–3:30 PM**  
**A Surgeon’s Perspective on Head and Neck Ultrasound: What Do We Need From the Radiologist?**  
**David Goldenberg, MD**
New Horizons in Critical Care Ultrasound

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

Milano Ballroom III/IV
Moderator: Eitan Dickman, MD, RDMS

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 for the confirmation of proper endotracheal tube placement.

1:30 PM–2:00 PM Emergency Ultrasound for Airway Management
Mark Tessaro, MD

2:00 PM–2:30 PM Focused Transesophageal Echocardiography for Emergency Physicians
Robert Arntfield, MD, RDMS

2:30 PM–3:00 PM Diagnosing Pulmonary Embolism With Ultrasound: Putting All the Pieces Together
Scott Millington, MD

3:00 PM–3:30 PM Integrating Heart, Lung, and Inferior Vena Cava Ultrasound in the Critically Ill Patient: Putting It All Together
Stephen Leech, MD, RDMS

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

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

Roman Ballroom IV
Moderator: Michael Di Pietro, 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 brachialpalsy, assessing thoracic outlet impingement, and locating sites for nerve blocks.

1:30 PM–2:15 PM Pediatric Brachial Plexus Sonography of Perinatal Brachiopelopsathy: Direct and Indirect Findings
Michael Di Pietro, MD

2:15 PM–3:00 PM Brachial Plexus Sonography in Adults: Dynamic Evaluation of Thoracic Outlet Compression Symptoms
Levon Nazarian, MD

3:00 PM–3:30 PM Pediatric Brachial Plexus Sonography: Acquiring Experience and Collaboration With Pediatric Orthopedics
Andrew Zbojniecz, MD

AIUM Accreditation

Learn more about AIUM ultrasound practice accreditation. If you can’t make it to the tutorial, accreditation staff are available to answer your questions in Capri each day. See page 44 for hours and more information.
3:45 PM–5:30 PM
Special Interest Session

**T3** Hands-on Pediatric Ultrasound

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

*Octavius Ballroom 17*

**Moderator:** William Shiels II, DO

Hands-on Faculty: Shwetta Bhatt, MD, Nathalie Bureau, MD, Michael Di Pietro, MD, Ulrike Hamper, MD, Kenneth Lee, MD, Theodore Miller, MD, John Pellerito, MD, Humberto Rosas, MD, Leslie Scoutt, MD, Hisham Tchelepi, MD

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

**Gynecologic Unknowns**

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

*Milano Ballroom V–VII*

**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.

**Challenging Thoracic Sonography Cases**

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

*Roman Ballroom IV*

**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, hemoptysis, pleural effusion, and empyema.

4:00 PM–5:30 PM
Special Interest Sessions

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

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

*Pompeian Ballroom*

**Moderator:** Wesley Lee, MD

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

4:00 PM–5:30 PM
Special Interest Sessions

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

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

*Roman Ballroom III*

**Moderator:** Andrej Lyshchik, MD, PhD

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

Learn about the latest research in ultrasound in concise oral presentations. * indicates presenter.

Emergency Medicine and Critical Care

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

Roman Ballroom I/II

Moderators: Eitan Dickman, MD, RDMS, Bret Nelson, MD, RDMS

4:00 PM–4:20 PM
Anchor Speaker: Srikar Adhikari, MD

4:20 PM–4:27 PM
1844164          The Focused Assessment With Sonography for Trauma Exam: The Caudal Tip of the Liver May Be a More Sensitive View Than Morison’s Pouch for Traumatic Free Fluid
Vivetta Lobo,* Erin Cullinan, Rebecca Higbee, Michelle Hunter-Behrend, Laleh Gharahbaghian, Sarah Williams, Phillips Perera

4:27 PM–4:34 PM
1830808          Effect of Operator Experience on Test Performance Characteristics of Point-of-Care Ultrasound in Diagnosing Appendicitis in Children: Implications for Reducing Misdagnosis-Related Medical Errors
Jas Tsung,* Ee Tein Tay, Inna Elikashvili

4:34 PM–4:41 PM
1842886          Central Vascular Catheter Placement Evaluation Using a Saline Flush and Bedside Echocardiography
David Johnson,* Anthony Arroyo, Evan Salant, Lawrence Haines, Eitan Dickman

4:41 PM–4:48 PM
1843872          Tracheal Rapid Ultrasound Saline Test for Determining Endotracheal Tube Depth in Children
Mark Tassaro,* Alexander Arroyo, Evan Salant, Lawrence Haines, Eitan Dickman

4:48 PM–4:55 PM
1845530          A Prospective Study on Point-of-Care Focused Cardiac Ultrasound in Assessing for Thoracic Aortic Dimensions, Dilation, and Aneurysms
Richard Taylor,* Isabel Oliva, Florence Lo, Faizan Arshad

4:55 PM–5:02 PM
1847105          General Internist-Performed Point-of-Care Ultrasound Assessment of Left Ventricular Systolic Function Correlates With Formal Echocardiography
David Tierney,* Ben Johnson, Terry Rosborough, Kevin Harris, Marc Newell

5:02 PM–5:09 PM
1847609          RUSH Protocol: Can Rapid Assessment of Hypotensive Emergency Department Patients Improve Diagnostic Ability and Clinician Confidence in Diagnosis?
Amy Sanghvi,* Phillip Andrus, Bret Nelson, Scott Weingart

General Ultrasound and Elastography

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

Milano Ballroom I/II

Moderator: David Cosgrove, MD

4:00 PM–4:20 PM
Anchor Speaker: David Cosgrove, MD

4:20 PM–4:27 PM
1758818          Corticomedullary Strain Ratio: A Quantitative Marker in Assessment of Renal Allograft Cortical Fibrosis
Jing Gao,* Jonathan Rubin, William Weitzel, Robert Min

4:27 PM–4:34 PM
1832812          Liver Elastography in Patients With Chronic Hepatitis: Can the Number of Invasive Liver Biopsies Performed Be Reduced?
Jessica Snyder, Philip Rich*

4:34 PM–4:41 PM
1847040          Optic Nerve and Perineural Sclera Changes in Glaucoma: A Shear Wave Elastographic Study
Fatih Kantarcı,* Fahrettin Kilic, Ahmet Ozkok, Gokhan Kuyumcu, Pınar Sultan, Cesur Samanci, Mehmet Yılmaz, Nevbahar Tancelik, Ismail Mihmanlı

4:41 PM–4:48 PM
1841590          Comparison of Dynamic Transperineal Ultrasound With Evacuation Proctography for the Evaluation of Patients With Defecation Disorders
Muriel Webb,* Yshai Ron, Erwin Santo

4:48 PM–4:55 PM
1847308          A Novel Microvascular Flow Image Technique: Initial Evaluations
Priscilla Machado,* Sharon Segal, Yoko Okamura, Gilles Guenette, Cynthia Rapp, Flemming Forsberg

4:55 PM–5:02 PM
1844772          Ultrasound Strain Zero-Crossing Elasticity Measurement in Assessment of Renal Allograft Cortical Fibrosis
Jing Gao,* Jonathan Rubin

5:02 PM–5:09 PM
1846519          Correlation of Shear Wave Speed and the Grayscale Assessment of Fat Content in the Liver
Sarah Kohn,* Harald Kramer, Perry Pickhardt, Scott Reeder, Mark Kliewer, Timothy Hall
### Obstetric Ultrasound: Fetal Growth

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

**Milano Ballroom III/IV**

**Moderators:** Wesley Lee, MD, Mani Montazemi, RDMS

**4:00 PM–4:20 PM**

**Anchor Speaker:** Wesley Lee, MD

<table>
<thead>
<tr>
<th>Session ID</th>
<th>Title</th>
<th>Authors</th>
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<tbody>
<tr>
<td>1847636</td>
<td>Accuracy of Third-Trimester Ultrasound in Fetuses With Intrauterine Growth Restriction for the Prediction of Small-for-Gestational-Age Newborns</td>
<td>Steve Rad,* Aaron Turner, Yalda Afshar, Sarah Beauchamp, Carlos Moralessepp, Tania Esakoff</td>
</tr>
<tr>
<td>1843382</td>
<td>Mathematical Prediction of Fetal Weight of Infants of Diabetic Mothers Using Third-Trimester Ultrasound</td>
<td>Abbe Kordik,* Micaela Delia Torre</td>
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<tr>
<td>1855938</td>
<td>Three-Dimensional Power Doppler Evaluation of the Middle Cerebral Artery: A Novel Tool in the Assessment of Fetal Growth Restriction</td>
<td>Katherine Goetzinger,* Alison Cahill, Linda Odibo, George Macones, Anthony Odibo</td>
</tr>
<tr>
<td>1855674</td>
<td>Small for Gestational Age and Stillbirth: Does the Growth Standard Used for Classification Matter?</td>
<td>Amanda Trudell,* Alison Cahill, Methodius Tuuli, Jeffrey Dicke, George Macones, Anthony Odibo</td>
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**4:55 PM–5:02 PM**

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<tr>
<th>Session ID</th>
<th>Title</th>
<th>Authors</th>
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<tbody>
<tr>
<td>1822600</td>
<td>Association of Cervical Length With Preterm Birth in Triplet Gestations</td>
<td>Sarah Cross,* Kafui Demasio, Joshua Copel</td>
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<tr>
<td>1856092</td>
<td>Three-Dimensional Placental Bed Vascular Flow Combined With Pregnancy-Associated Plasma Protein A and Uterine Artery Doppler to Predict Early Preeclampsia</td>
<td>Karen Hannaford,* Methodius Tuuli, Katherine Goetzinger, Linda Odibo, Alison Cahill, George Macones, Anthony Odibo</td>
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**5:09 PM–5:16 PM**

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<th>Session ID</th>
<th>Title</th>
<th>Authors</th>
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<tbody>
<tr>
<td>1837816</td>
<td>Third-Trimester Fetal Biometry and Neonatal Outcome in Term Deliveries</td>
<td>J. Christopher Glantz,* Tejas Sheth, Lisa Gray</td>
</tr>
<tr>
<td>1842158</td>
<td>Ultrasonographic Measurements of the Amniotic Fluid Index in Normal Singleton Pregnancies in Nigeria</td>
<td>Nasiru Kabo,* Kabir Isyaku, Sule Idris, Mohammad Suwaid, Mohammad Sale</td>
</tr>
</tbody>
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### Therapeutic Ultrasound

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

**Neopolitan Ballroom I/II**

**Moderators:** Christy Holland, PhD, Keith Wear, PhD

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<th>Session ID</th>
<th>Title</th>
<th>Authors</th>
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<tbody>
<tr>
<td>1847356</td>
<td>Ultrasound-Stimulated Gene Therapy for Improved Adenovirus Delivery</td>
<td>Anna Sorace, Jason Warram, Marshall Mahoney, Kurt Zinn, Kenneth Hoyt*</td>
</tr>
<tr>
<td>1847006</td>
<td>Real-time Electric Cell Impedance Sensing Investigation of Ultrasound-Induced Cell Permeability</td>
<td>John Allen,* Pavlos Anastasiadis, Michelle Matter</td>
</tr>
<tr>
<td>1847190</td>
<td>Treatment of Mild to Moderate Knee Osteoarthritis With Long-Duration Low-Intensity Therapeutic Ultrasound</td>
<td>Matthew Langer, Vanessa Levine, Lyndon Hernandez, George Lewis*</td>
</tr>
<tr>
<td>1847119</td>
<td>Ultrasound-Stimulated Drug Delivery Enhances Treatment of Residual Disease Following Incomplete Tumor Resection</td>
<td>Anna Sorace, Melissa Korb, Jason Warram, Heidi Umphrey, Kurt Zinn, Eben Rosenthal, Kenneth Hoyt*</td>
</tr>
<tr>
<td>1847256</td>
<td>Sonoporation: An Epitome of Cell Membrane Perforation and Recovery Dynamics</td>
<td>Yaxin Hu,* Jennifer Wan, Alfred Yu</td>
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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.

General and Abdominal Ultrasound
Neopolitan Ballroom III/IV
The General and Abdominal Ultrasound Community would like to invite any meeting participant who is interested in abdominal ultrasound to join us for our community meeting. We find it especially useful to hear your views, thoughts, and interests. This is your meeting. We seriously listen to your requests for certain topics and make every effort to integrate your suggestions into the meeting. In fact, we may ask you to lecture. Please join us.

4:00 PM–5:30 PM
Committee Meeting
Clinical Standards
Modena

7:00 PM–11:00 PM
Leadership Banquet
Florentine Ballroom
(by invitation only)
**ISTU Premeeting—Basic Science Track**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>8:00 AM</td>
<td>Science Primer on Therapeutic Ultrasound: Wave Physics and Bioeffects</td>
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<td><em>Vera Khokhlova and Jean-François Aubry</em></td>
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<tr>
<td>8:30 AM</td>
<td>Tumor Immunology and Treatments: How Focused Ultrasound Can Become Handy</td>
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<td><em>Elizabeth Repasky</em></td>
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<td>9:00 AM</td>
<td>Focused Ultrasound: Principles and Instrumentation Design</td>
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<td><em>Kullervo Hynynen</em></td>
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<td>10:00 AM</td>
<td>Delivering the Right Dosage in Ultrasound Treatments: Measurements and Standards</td>
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<td><em>Gail ter Haar</em></td>
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<td>12:00 PM</td>
<td>Lunch Provided in the AIUM Exhibit Hall</td>
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<td>1:00 PM</td>
<td>Ultrasound Therapy Using Cavitation and Shock Waves: Principles, Instrumentation, and New Applications</td>
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<td><em>Lawrence Crum</em></td>
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<td>2:00 PM</td>
<td>Ultrasound Therapy in the Brain: BBB Opening, Neuromodulation, and Sonothrombolysis</td>
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<td><em>Nathan McDannold and Stephen Meairs</em></td>
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<td>3:00 PM</td>
<td>Ultrasound-Mediated Drug and Gene Delivery</td>
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<td><em>Katherinne Ferrara</em></td>
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<td>4:00 PM</td>
<td>Agents and Vehicles for Drug Delivery and Focused Ultrasound Treatments</td>
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<td><em>Alexander Klibanov</em></td>
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<td>4:30 PM</td>
<td>Ultrasound Therapy at Low Intensity: Nonthermal Bioeffects and Biophysics</td>
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<td><em>Alfred Yu</em></td>
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<td>5:00 PM</td>
<td>Questions and Answers</td>
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**ISTU Premeeting—Clinical Track**

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<tr>
<th>Time</th>
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<tr>
<td>8:00 AM</td>
<td>Magnetic Resonance-Guided Focused Ultrasound Treatments: Clinical Introduction</td>
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<td><em>Young-Sun Kim</em></td>
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<td>8:30 AM</td>
<td>Ultrasound Imaging in Clinical Focused Ultrasound Treatments</td>
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<td><em>Shinichi Umemura</em></td>
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<td>9:00 AM</td>
<td>High-Frequency Ultrasound for Prostate Cancer: Current Status and Future Trends</td>
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<td><em>Christian Chaussey</em></td>
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<td>10:00 AM</td>
<td>Tips and Tricks for Successful Focused Ultrasound Treatment of Symptomatic Uterine Fibroids</td>
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<td><em>Elizabeth Stewart and Gina Hesley</em></td>
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<td>11:00 AM</td>
<td>Overview of the Technologies and Clinical Status of High-Frequency Ultrasound for Liver</td>
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<td><em>Lian Zhang</em></td>
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<td>12:00 PM</td>
<td>Lunch Provided in the AIUM Exhibit Hall</td>
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<td>1:00 PM</td>
<td>Overview of High-Frequency Ultrasound for Emerging Application Including Breast, Pancreas, Thyroid, and More</td>
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<td><em>Yael Inbar</em></td>
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<td>2:00 PM</td>
<td>High-Frequency Ultrasound for Treatment of Focal Bone Pathologies</td>
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<td><em>Peijman Ghanooni</em></td>
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<td>3:00 PM</td>
<td>Magnetic Resonance-Guided Focused Ultrasound for Current Neurosurgical Indications and Future Potential for Other Indications</td>
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<td><em>Stephen Monteith</em></td>
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<td>4:00 PM</td>
<td>Lithotripsy: State of the Art</td>
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<td><em>Robin Cleveland</em></td>
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<td>5:00 PM</td>
<td>Questions and Answers</td>
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Wednesday, April 2

Convention

Day at a Glance

7:00 AM–4:00 PM  Convention Registration Open
7:00 AM–10:15 AM  Coffee Service in Registration Area/Exhibit Hall
7:00 AM–8:00 AM  Just Images and Comprehensive Refresher Sessions
8:00 AM–11:00 AM  Board of Governors Meeting
8:15 AM–10:15 AM  Special Interest Sessions
     Fetal Echocardiography Community Meeting
9:30 AM–4:30 PM  E-Posters Open for Viewing
9:30 AM–4:30 PM  Exhibit Hall Open
10:15 AM–11:00 AM  Refreshment Break in the Exhibit Hall
     Therapeutic Ultrasound 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
7:00 AM–8:00 AM

**Just Images and Comprehensive Refresher Sessions**

**Clinical Applications of Contrast-Enhanced Ultrasound**

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

Neopolitan Ballroom I/II

Moderator: Ulrike Hamper, MD, MBA

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.

7:00 AM–8:00 AM

**Contrast Imaging in the Liver and Kidneys: Case Presentations**

Edward Grant, MD, Michelle Robbin, MD, MS

**Gynecologic Sonography in the Infertility Patient**

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

Milano Ballroom V–VII

Speaker: Misty Blanchette Porter, MD

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

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

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

Milano Ballroom I/II

Moderator: Levon Nazarian, MD

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

7:00 AM–7:30 AM

**Ultrasound Evaluation of Muscle and Tendon Injuries**

Levon Nazarian, MD

7:30 AM–8:00 AM

**Ultrasound Evaluation of Lumps and Bumps**

Alice Ha, MD

**Just Images: Perinatal Ultrasound and Neonatal Correlations**

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

Roman Ballroom IV

Moderator: 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.

7:00 AM–7:20 AM

**Perinatal Central Nervous System**

Harris L. Cohen, MD

7:20 AM–7:40 AM

**Perinatal Head, Neck, and Chest**

Carol Barnewolt, MD

7:40 AM–8:00 AM

**Perinatal Abdomen**

Maria Calvo-Garcia, MD

**Just Images: Transcranial Doppler Ultrasound**

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

Roman Ballroom III

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

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

7:00 AM–8:00 AM

**Neck and Brain: Above and Beyond**

Zsolt Garami, MD

**New Techniques/New Materials in Ultrasound Procedures**

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

Milano Ballroom III/IV

Moderator: Corinne Deurdulian, MD

After attending this session, participants will be able to understand the newer biopsy and ablation techniques using ultrasound and computed tomographic, magnetic resonance imaging, and positron emission tomographic–computed tomographic fusion, as well as understand the applications of ultrasound in ablation therapy.

7:00 AM–7:30 AM

**Fusion Imaging**

Hisham Tchelepi, MD

7:30 AM–8:00 AM

**Ablations/Radiofrequency Ablation**

John McGahan, MD
**8:00 AM–11:00 AM**

**Committee Meeting**

**Board of Governors**

**Verona**

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**8:15 AM–10:15 AM**

**Special Interest Sessions**

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

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

**Milano Ballroom I/II**

**Moderators:** Christy Holland, PhD, Michael Oelze, 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.

**8:15 AM–8:39 AM**

**Paradigm Shift: Enhanced Radiation Tumor Cure Using Ultrasound-Stimulated Microbubbles**

**Gregory Czarnota, MD, PhD**

**8:39 AM–9:03 AM**

**High–Frame Rate Imaging of the Intrinsic Mechanical and Electromechanical Functions of the Heart and Vessels In Vivo**

**Elisa Konofagou, PhD**

**9:03 AM–9:27 AM**

**Microbubbles for Molecular Ultrasound Intervention**

**Cheri Deng, PhD**

**9:27 AM–9:51 AM**

**Engineering Pressure-Sensitive Nanomulsions for Enhancing Ultrasound-Mediated Cancer Therapy**

**Tyrone Porter, PhD**

**9:51 AM–10:15 AM**

**Development of Ultrasound Theranostic Protocols for Clinical Applications**

**Thomas Porter, MD**

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

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.

**Milano Ballroom III/IV**

**Moderator:** Mary Beth McCarville, 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.

**8:15 AM–8:39 AM**

**In Vitro Optimization of an Ultrasound Contrast Agent for Voiding Ultrasonography: US Experience**

**Kassa Darge, MD, PhD**

**8:39 AM–9:03 AM**

**Contrast-Enhanced Ultrasound in Crohn’s Disease—Moving From the Animal Model Into Children: US Experience**

**Jonathan Dillman, MD**

**9:03 AM–9:27 AM**

**Potential Indications for Contrast-Enhanced Ultrasound in Pediatric Patients: European Experience**

**Zoltan Harkanyi, MD, PhD**

**9:27 AM–9:51 AM**

**Feasibility and Safety of Contrast-Enhanced Ultrasound in Children: European Experience**

**Martin Stenzel, MD**

**9:51 AM–10:15 AM**

**Intravesical Use of Ultrasound Contrast Agents in Children: European Experience**

**Martin Stenzel, MD**
Head and Neck Ultrasound
Earn up to 2.0 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

**Roman Ballroom III**
*Moderator: Bret Nelson, MD, RDMS*

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.

8:15 AM–8:45 AM  Ocular Ultrasound  
Corinne Deurdulian, MD

8:45 AM–9:15 AM  Acute Head and Neck Ultrasound  
Srikar Adhikari, MD, MS, RDMS

9:15 AM–9:45 AM  Emergency Department Cases  
Gerardo Chiricolo, MD

9:45 AM–10:15 AM  Panel Discussion  
Srikar Adhikari, MD, MS, RDMS, Richard Calderon, BS, OD, Gerardo Chiricolo, MD

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

**Roman Ballroom IV**
*Moderator: 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.

8:15 AM–8:55 AM  Introduction to Ultrasound in Global Health  
Sachita Shah, MD

8:55 AM–9:35 AM  Ultrasound Research in the Developing World  
Adam Levine, MD, MPH

9:35 AM–10:15 AM  Ultrasound Equipment and Tools for Global Health  
Daniel Kaminstein, MD

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

**Milano Ballroom VIII**
*Moderator: Vikram Dogra, MD*

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

8:15 AM–8:45 AM  Evaluation of Testicular Masses  
Corinne Deurdulian, MD

8:45 AM–9:15 AM  How to Evaluate Scrotal Pain  
Vikram Dogra, MD

9:15 AM–9:45 AM  Inguinal Hernias  
Cindy Rapp, RDMS

9:45 AM–10:15 AM  Nontesticular Scrotal Lesions  
Nirvikar Dahiya, MD

Venous Ablation Interventions: Duplex Imaging Before, During, and After the Procedure
Earn up to 2.0 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

**Neopolitan Ballroom III/IV**
*Moderator: John Blebea, MD, MBA*

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.

8:15 AM–8:37 AM  Venous Reflux Evaluation  
Jennifer McDowell, MM, RVT, RDMS, RT

8:37 AM–8:59 AM  Radiofrequency Ablation of Incompetent Veins: Technique and Outcomes  
Robert Merchant, MD

8:59 AM–9:21 AM  Postinterventional Ultrasound Imaging After Venous Ablation  
Joshua Cruz, RVT, RDMS

9:21 AM–9:45 AM  Heat-Induced Venous Thrombosis: What Is It and How Should It Be Treated?  
John Blebea, MD, MBA

9:45 AM–10:10 AM  Iliac Vein Thrombolysis and Stenting  
Patricia Thorpe, MD

10:10 AM–10:15 AM  Questions and Answers
Wheel of Fortune: Proper Obstetric/Gynecologic Ultrasound Coding

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

Milano Ballroom V–VII

Moderators: 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  Case Presentations

Andrew Helfgott, MD,
James Shwayder, MD, JD

10:15 AM–11:00 AM  Refreshment Break in the Exhibit Hall

Octavius Ballroom

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.

Fetal Echocardiography

Neopolitan Ballroom I/II

This year’s meeting of the Fetal Echocardiography Community will cover important topics that you will not want to miss. With the upcoming changing of the guard, we will be announcing the next secretary, as Dr Lynn Simpson assumes the role of vice chair, and Dr Liat Gindes assumes the role of chair (and Dr Sklansky gets a breather!). We will be discussing next year’s convention topics and speakers. The discussion is sure to include mention of the new guidelines for the anatomic survey in low-risk pregnancies, now recommending the inclusion of outflow tracts along with the 4-chamber view. We welcome anyone with an interest in fetal cardiac imaging, as discussions thrive with input from a variety of perspectives and disciplines. Please join us for this annual meeting of the Fetal Echocardiography Community.

10:15 AM–11:00 AM  Community Meeting

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

Therapeutic Ultrasound

Milano Ballroom I/II

At this session we will solicit suggestions for Therapeutic Ultrasound Special Interest Sessions for the 2015 Annual Convention. Attendees will vote on suggested Special Interest Sessions. We will appoint moderators for the sessions that receive the highest numbers of votes.

AIUM webinars cover a variety of ultrasound topics and offer AIUM members the opportunity to earn free CME credits.

Visit www.aium.org and select the “CME” tab, then “Webinars” to view the growing archive of programs.
11:00 AM–12:30 PM
Scientific Sessions

Learn about the latest research in ultrasound in concise oral presentations. * indicates presenter.

Basic Science and Instrumentation: Tissue Characterization, 2

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

Neopolitan Ballroom I/II

Moderators: Oliver Kripfgans, PhD, James Miller, MS, PhD

11:00 AM–11:10 AM
1846480  Imaging of Endothelial Function With High-Frequency Ultrasound: In Vitro and In Vivo Study
Andrzej Nowicki,* Robert Olszewski, Marcin Lewandowski

11:10 AM–11:20 AM
1847654  Detection of High-Risk Factors in Carotid Atherosclerotic Plaques Using Carotid Strain Rate Imaging
Xiaoyan Tang, Lingyun Huang, Manwei Huang, Xihai Zhao, Le He, Chun Yuan, Jing Bai, Jianwen Luo*

11:20 AM–11:30 AM
1843608  Effects of Key Parameters on Ultrasound-Based Local Pulsed Wave Velocity Measurement: A Simulation Study
Chengwu Huang,* Jianwen Luo

11:30 AM–11:40 AM
1844363  A Finite-Element Method for Simulation of an Ultrasonic Phased Array and the Resulting Transcranial Propagation
Mariam Al-ansary,* Kiyanoosh Shapoori, Jeffery Sadler, Elena Maeva

11:40 AM–11:50 AM
Joshua Doherty,* Peter Kranz, Jeremy Dahl, Hsing-Chiu Chang, Nan-Kuei Chen, Mark Palmeri, Gregg Trahey

11:50 AM–12:00 PM
1844363  Modeling of Tissue Scattering in Diffusive Fields
Jeremy Kerenmer,* Michael Oelze, Miklos Gyorgy

12:00 PM–12:10 PM
1843608  Clinical Application Space of Volume Flow Imaging With 3-Dimensional Doppler Ultrasound
Stephen Pinter,* Oliver Kripfgans, Jonathan Rubin, Anne Hall, J. Brian Fowlkes

12:10 PM–12:20 PM
1844363  A Finite-Element Method for Simulation of an Ultrasonic Phased Array and the Resulting Transcranial Propagation
Mariam Al-ansary,* Kiyanoosh Shapoori, Jeffery Sadler, Elena Maeva

12:20 PM–12:30 PM
1843608  Effects of Key Parameters on Ultrasound-Based Local Pulsed Wave Velocity Measurement: A Simulation Study
Chengwu Huang,* Jianwen Luo

Musculoskeletal Ultrasound

MSK

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

Neopolitan Ballroom III/IV

Moderators: Humberto Rosas, MD, Alberto Simoncini, MD

11:00 AM–11:20 AM
1846254  Mapping Kinematics of the Human Carpal Tunnel Using Ultrasound Strain Imaging
Yin-Yin Liao, Wei-Ning Lee,* Ming-Ju Lee, Chih-Kuang Yeh

11:20 AM–11:27 AM
1847683  Anchors Speaker: Humberto Rosas, MD

11:27 AM–11:34 AM
1847654  Sonographically Aided Carpal Tunnel Release
Somesh Beeharry

11:34 AM–11:41 AM
1838506  Quantifying Acromio-Humeral Distance Using Dynamic Ultrasound: Correlation With Rotator Cuff Tear Size, Muscle Fatty Atrophy, and Functional Outcome
Karim Basile,* Étienne Paré, Nicola Hagemeister, Patrice Tétrault, Dominique Rouleau, Nathalie Bureau

11:41 AM–11:48 AM
1846910  Feasibility of Ultrasound-Guided Percutaneous Tenotomy of the Long Head of the Biceps Tendon: A Pilot Study
Abdel-Rahman Aly,* Sathish Rajasekaran, Adel Mohamed, Cole Beavis, Haron Obaid

11:48 AM–11:55 AM
1847179  Ultrasound Imaging Features of Tendon Healing After Platelet-Rich Plasma Injection for Patellar Tendinosis
Kenneth Lee,* William Peterson II, John Wilson, Alejandro Munoz del Rio

11:55 AM–12:02 PM
1846891  Ultrasound Guidance Improves Accuracy and Outcomes in Shoulder Girdle Injection: A Systemic Review and Meta-analysis
Abdel-Rahman Aly,* Sathish Rajasekaran, Nigel Ashworth

12:02 PM–12:09 PM
1839420  Does Point-of-Care Ultrasound (US) Predict US-Guided Corticosteroid Injection Responses in Greater Trochanteric Pain Syndrome?
Minna Kohler,* Naina Rastalsky, Liana Fraenkel

12:09 PM–12:16 PM
1847245  Sonographic Follow-up After Carpal Tunnel Release
Somesh Beeharry

12:16 PM–12:23 PM
1846383  Ultrasound Indicators of Infrapatellar Fat Pad Impingement
Himabindu Mikkilineni,* Patricia Delzelle
Obstetric Ultrasound: General and New Techniques

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

Milano Ballroom V–VII
Moderator: Luis Izquierdo, MD, MBA, CPE
11:00 AM–11:20 AM
Anchor Speaker: Luis Izquierdo, MD, MBA, CPE

11:20 AM–11:27 AM
1847295  “Falx Flash” Is a New Marker for Obtaining the True Midsagittal Plane During Nuchal Translucency Assessment
David Jackson,* James Pennington, Lindsey Murphey, Blanca Solis, Willfredo Torres, Thomas Abdella

11:27 AM–11:34 AM
1836665  Keeping Up With the Curve: A Comparison of Cervical Length Techniques for the Prediction of Spontaneous Preterm Birth
Kristen Whitalker, *Nathan Fox, Andrei Rebarber, Daniel Saltzman, Chad Klausza, Ashley Roman

11:34 AM–11:41 AM
1831314  The Velocity, Displacement, and Strain Rate of the Levator Ani Muscle Increase From the First to Third Trimester of Pregnancy
Timothy Canavan

11:41 AM–11:48 AM
1834159  The Velocity and Strain of the Levator Ani Muscle During a Kegel May Predict Preterm Labor: A Pilot Study
Timothy Canavan

11:48 AM–11:55 AM
1846969  Is Maternal Renal Ultrasound Useful for Managing Acute Pyelonephritis in Pregnancy?
Willfredo Torres, *David Jackson, Megumi Akiyama, Tamir Rogson, Marsha Matsunaga-Kirgan, Thomas Abdella

11:55 AM–12:02 PM
1799345  Differences in the Size of Right and Left Choroid Plexuses at 11 to 13 Weeks: An Early Sign of “Developmental” Laterality?
Reem Abu-Rustum, *M. Fouad Ziade,Sameer Abu-Rustum

12:02 PM–12:09 PM
1834098  Tissue Histogramic Echo Intensity of the Fetal Liver, Lung, Kidney, and Spleen
James Maher,* Phillip Watkins, Daniel Castracane, Gary Ventolini

12:09 PM–12:16 PM
1844260  Midtrimester Fetal Thymic Measurement: Results of an Intraobserver Reproducibility Study
Justin Brandt,* Nadav Schwartz

Sonographic Education

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

Milano Ballroom III/IV
Moderator: James Pennington, RDMS
11:00 AM–11:20 AM
Anchor Speaker: James Pennington, RDMS

11:20 AM–11:27 AM
1847700  HIPAA and HITECH and FERPA, Oh My! Cloud Encryption Via iPhone and Android Technology as a Compliant Curricular Adjunct for Quantifying and Documenting Clinical Competency in Point-of-Care Ultrasound Teaching
John Rodney,* Dan Basille, Ron Arnold, Matt Walton, John Simmons, Kelly Arnold, William Rodney

11:27 AM–11:34 AM
1846661  Utility of Cardiac Ultrasound in the Preclinical Medical School Curriculum
Abigail Brackney,* Dawn Jung, Amit Bahl, Neila Aftonso

11:34 AM–11:41 AM
1847532  Language of Focused Ultrasound: Codifying Terms for Effective Teaching
Matt Blickendorf,* Daralee Hughes, Creagh Boulger, David Bahner

11:41 AM–11:48 AM
1845585  Advanced Competencies in Internal Medicine Focused Ultrasound at the Undergraduate Medical Education Level
Saaid Abdel-Ghani,* Christopher Esber, David Bahner

11:48 AM–11:55 AM
1847381  Advanced Competency Curriculum in Focused Ultrasonography to Assist Medical Students’ Transition to Specialty-Specific Graduate Medical Education
Ashish Panchal,* Creagh Boulger, David Bahner

11:55 AM–12:02 PM
1838465  First-Year Medical Students’ Perceptions of the Importance of Ultrasound in Medical Education in Lebanon
Reem Abu-Rustum, *Ziad Nehme, Camille Nassar

12:02 PM–12:09 PM
1837938  Pylorus Imaging: Learning Curve Study of Pediatric Emergency Medicine Fellows
Natasha Tejwanl, *Melissa Rutkin, Tej Phatak, Adam Sivitz

12:09 PM–12:16 PM
1839600  Development and Implementation of a Structured Obstetric Ultrasound Curriculum for Obstetric and Gynecologic Interns
Aaron Turner,* Steve Rad, Pai-Jong Tsai, Mark Hiraoka, John Williams, Kim Gregory, David Kim
12:30 PM–1:30 PM
Lunch in the Exhibit Hall
Octavius Ballroom

1:30 PM–3:30 PM
Just Images Session
Just Images With Ultrasound Correlation in Office Procedures and for Guidance in the Operating Room
Earn up to 2.0 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.
Neopolitan Ballroom III/IV
Moderator: James Shwayder, MD, JD
This session will discuss uses of gynecologic sonography in the office and operating room.

1:30 PM–2:10 PM Case Presentations
James Shwayder, MD, JD
2:10 PM–2:50 PM Case Presentations
Elizabeth Puscheck, MD, MS
2:50 PM–3:30 PM Case Presentations
William Brown, MD

1:30 PM–3:30 PM
Special Interest Sessions
Multiple Gestations
Earn up to 2.0 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.
Milano Ballroom V/VII
Moderators: Lauren Ferrara, 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.

1:30 PM–2:00 PM Use of Ultrasound in Multiple Gestations
James Goldberg, MD
2:00 PM–2:30 PM Complications of Monochorionic Twins
Manisha Gandhi, MD
2:30 PM–3:00 PM Invasive Procedures in Multifetal Pregnancies
Joanne Stone, MD
3:00 PM–3:30 PM Invasive Procedures in Multifetal Pregnancies
Lauren Ferrara, MD

Neuroanatomic Syllabus for Perinatal and Pediatric Sonographers: We Should See What We’re Missing
Earn up to 2.0 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.
Milano Ballroom I/II
Moderator: David Jackson, MD
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) sonographic 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.

1:30 PM–2:10 PM Introduction and the Anatomic Basis of Neurosonography for Fetal and Pediatric Applications
James Pennington, RDMS
2:10 PM–2:40 PM Multidimensional Fetal Neurosonography: Technique and Updates in AIUM Guidelines
Ana Monteagudo, MD, RDMS
2:40 PM–3:10 PM Anatomic Correlates of Neonatal Central Nervous System Surgical Syndromes: How to Diagnose With Sonography and Magnetic Resonance Imaging
David Mirsky, MD
3:10 PM–3:30 PM How We Learn: Removing “Neurophobia” for Sonographers and Sonologists
James Pennington, RDMS
Teaching and Assessing Point-of-Care Ultrasonography

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

Milano Ballroom III/IV
Moderator: Resa Lewiss, 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.

1:30 PM–2:00 PM Practicalities of Training the Trainers and Developing a Cache of Experts for an Integrated Medical School Curriculum
Richard Hoppmann, MD

2:00 PM–2:30 PM Undergraduate Medical Education: Games, Electives, and Integrating Your Curriculum
David Bahner, MD, RDMS

2:30 PM–3:00 PM Graduate Medical Education: Why Milestones Plus Residents Equal Social Media and Simulation
Jason Nomura, MD, RDMS

3:00 PM–3:30 PM Teaching Other Specialties Within Your Hospital: Pearls and Pitfalls
Vicki Noble, MD, RDMS

3:30 PM–4:00 PM Refreshment Break in the Exhibit Hall
Octavius Ballroom

4:00 PM–5:30 PM Film Panel Sessions
Cardiac Unknowns

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

Milano Ballroom V–VII
Moderator: Mark Sklansky, MD

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

4:00 PM–4:15 PM Abdominal
Sandra Hagen-Ansert, RDMS

4:15 PM–4:30 PM Four-Chamber View
Anita Moon-Grady, MD

4:30 PM–4:45 PM Outflow Tracts
Jay Pruett, MD

4:45 PM–5:00 PM Three-Vessel View
Julia Solomon, MD

5:00 PM–5:15 PM Systemic Lupus Erythematosus?
Mark Sklansky, MD

5:15 PM–5:30 PM Other
Lisa Hornberger, MD

Missing Cases

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

Neopolitan Ballroom III/IV
Moderator: Salvatore La Russo, ME, RDMS, RT(R)

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

4:00 PM–4:30 PM Case Presentation
Shweta Bhatt, MD

4:30 PM–5:00 PM Case Presentation
Mark Lockhart, MD, MPH

5:00 PM–5:30 PM Case Presentation
Salvatore La Russo, ME, RDMS, RT(R)
4:00 PM–5:30 PM

Scientific Sessions

Learn about the latest research in ultrasound in concise oral presentations. * indicates presenter.

**Basic Science and Instrumentation: Bioeffects**

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

**Neopolitan Ballroom I/II**

Moderators: Jacques Abramowicz, MD, Keith Wear, PhD

4:00 PM–4:30 PM

Anchor Speaker: Jacques Abramowicz, MD

4:00 PM–4:30 PM

1847091 Pulmonary Capillary Hemorrhage Induced by 1.5-MHz Diagnostic Ultrasound in Rats

Douglas Miller,* Chunyan Dou

4:30 PM–4:40 PM

1846397 Improved Accuracy and Precision of Acoustic Output Measurements With Fiber-optic Hydrophones via Complex Deconvolution of Hydrophone Sensitivity

Keith Wear,* Paul Gammell, Subha Maruvada, Yunbo Liu, Gerald Harris

4:40 PM–4:50 PM

1839735 A Comparison of Thermal Safety Guidelines for Diagnostic Ultrasound Exposures

Gerald Harris,* Charles Church, Diane Dalecki, Marvin Ziskin, Jennifer Bagley

**Neurosonology and Neck Ultrasound**

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

**Milano Ballroom VIII**

Moderators: Koray Hekimoglu, Beth McCarville, MD

4:00 PM–4:07 PM

1846732 Stability Testing of a Novel Transcranial Doppler Fixation Headset During Exercise

Brian Watt,* Mohammed Alwatban, Edward Truemper, Greg Bashford

4:07 PM–4:14 PM

1847583 Pilot Study to Determine the Feasibility of Simultaneous Cerebral Blood Flow Monitoring and Postural Control Measurements

Max Twedt,* Jessie Patterson, Robin Criter, Julie Honaker, Edward Truemper, Greg Bashford

4:14 PM–4:21 PM

1839951 Sleep Duration Is Associated With the Subclinical Carotid Plaque Burden and Echo Density

Alberto Ramos,* Hannah Garderner, Mitchell Elkind, Ken Cheung, Maria Santiago, Ralph Sacco, Tatjana Rundek

4:21 PM–4:28 PM

1847283 Characterizing Thyroid Nodules With a Novel Microvascular Flow Technique

Priscilla Machado,* Sharon Segal, Yoko Okamura, Gilles Guenette, Cynthia Rapp, Flemming Forsberg

4:28 PM–4:35 PM

1835965 Evaluation of the Diagnostic Efficacy of an Ultrasound Scoring System to Select Thyroid Nodules Requiring Fine-Needle Aspiration Biopsy

Tohid Hajizadeh

4:35 PM–5:42 PM

1846844 Sonographic Assessment of Spinal Fluid for Infant Lumbar Puncture

Yaffa Vitberg,* Peggy Tseng, David Kessler

5:42 PM–5:49 PM

1841076 Novel Application: Role of Acoustic Radiation Force Impulse Sonoelastography for the Diagnosis of Chronic Autoimmune Hashimoto’s Thyroiditis

Koray Hekimoglu,* Fuldem Yildirim, Serdar Arslan, Adnan Ozdemir, Canan Demir, Canan Vazici

5:49 PM–5:56 PM

1847146 Thyroid Ultrasound for Cancer Detection: The Old-School Gestalt Versus Application of The National Comprehensive Cancer Network Guidelines

Mark McCommons,* Steve Machnicki
Obstetric Ultrasound: Fetal Anomalies, 2

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

Milano Ballroom I/II
Moderator: Alicia Crum, RDMS, Anne Kennedy, MBBCh, MRCP, FRCR

4:00 PM–4:20 PM
Anchor Speaker: Anne Kennedy, MBBCh, MRCP, FRCR

4:20 PM–4:27 PM
1844916 The 3-Vessel View as a Screening Test for Congenital Heart Disease
Justin Brandt,* Eileen Wang, Jack Rychik, Debbra Soffer, Nadav Schwartz

4:27 PM–4:34 PM
1841014 Craniofacial Anomalies: Which Objective Measure Performs Best? Lessons From Multiplanar Reconstruction
Jan Weichert,* Andreas Schroer, David Hartge

4:34 PM–4:41 PM
1841871 Relationship Between Prenatal Diagnosis of Congenital Heart Disease and Initial Inpatient Hospitalization Costs
Joseph Mares,* Choo Phie Wee, Richard Sposto, Jay Pruetz

4:41 PM–4:48 PM
1839882 Temporal Lobe Dysplasia in Thanatophoric Dwarfism: Prenatal Sonographic Detection
David Wang,* Phyllis Glanc, Arts Toi, David Chitayat, Uthra Mohan, Eva Barkova, Sarah Keating, Patrick Shannon

4:48 PM–4:55 PM
1847652 Transvaginal Sonographic Assessment of Normal Transient Patterns of Fetal Cerebral Lamination
Denise Pugash,* Kathryn Dewar, Glenda Hendson, Christopher Dunham

4:55 PM–5:02 PM
1847637 Fetal White Matter Abnormalities in Cytomegalovirus Infection
Denise Pugash,* Glenda Hendson, Christopher Dunham, Deborah Money

5:02 PM–5:09 PM
1846494 Cardiac Axis Measurement Is a Useful Tool for Detection of Conotruncal Heart Defects in the First and Early Second Trimesters of Pregnancy
Elena Sinkovskaya,* Sharon Horton, Annette Sclater, Kathy Tice, Anna Klassen, Alfred Abuhamad

5:09 PM–5:16 PM
1846832 Sonographic Pulmonary Abnormalities in Fetuses With Hypoplastic Left Heart Syndrome and an Intact Atrial Septum Undergoing Attempted Atrial Septostomy In Utero
Meaghan Mackesy,* Brian Kalish, Wayne Tworetzky, Stephen Sanders, Louise Wilkins-Haug, James Lock, Audrey Marshall, Carol Benson

Session Evaluations

Don’t Forget!

Fill out a BRIEF session evaluation from the convention app. Each evaluation can be accessed directly from the session’s description within the schedule at the completion of each session.
AIUM CME Opportunities

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AIUM members receive FREE online submission of CME self-study tests from current and archived issues of the journal—access up to 84 CME tests worth up to 1 CME credit each.

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A listing of archived and upcoming webinars on a variety of medical ultrasound topics is available online with FREE CME credit available to AIUM members.

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E-Posters

E-Posters are located in Exhibit Hall booth 309 and are available for viewing at the following times:

- Sunday, March 30 • 11:30 AM–4:30 PM
- Monday, March 31 • 9:30 AM–4:30 PM
- Tuesday, April 1 • 9:30 AM–4:30 PM
- Wednesday, April 2 • 9:30 AM–4:30 PM

Awards

First-, second-, and third-prize awards, as well as honorable mentions, will be indicated by ribbon icons on Sunday, March 30, after 5:00 PM. Awards are based on scientific content and visual effects.
E-Posters

Basic Science and Instrumentation: Instrumentation
1843984 Quantitative Assessment of Ultrasound Uniformity Artifact Severity
Scott Stekel,* Donald Tradup, Yi Zhang, Nicholas Hangiandreou
1846135 Multispecialty Ultrasound Leadership Training Initiative
Darab Zarrabi,* David Bahner
1847441 Fusion Imaging Using Optoacoustics and Ultrasound to Differentiate Breast Mass Histopathology
Phil Lavin,* Michael Ulissey, F. Lee Tucker, A. Thomas Stavros
1847498 Feasibility of Ultrasound Uniformity Artifact Detection Using Only In-air Images
Donald Tradup*, Scott Stekel, Yi Zhang, Nicholas Hangiandreou

Basic Science and Instrumentation: Tissue Characterization/Quantitative Ultrasound
1846824 Ultrasound Fat-Ray Tomography for Breast Cancer Characterization
Nghia Nguyen,* Lianjie Huang

Cardiovascular Ultrasound: Abdominal
1847665 Preintervention and Postintervention Ultrasound of the Abdominal Aorta
Gowthaman Gunabushanam,* Vijayanadh Ojili, Margarita Revzin, Deborah Rubens, Joshua Cruz, Leslie Scott

Cardiovascular Ultrasound: Carotid/Cerebrovascular
1750225 The Bloodstream in Common Carotid Arteries of Patients With Essential Hypertension
Ludmila Melnikova
1834022 Link Between Coronary Calcium Volumes From Intravascular Ultrasound and Carotid Intima-Media Thickness Variability From B-Mode Carotid Imaging: Shape-Based Approach
Tadashi Araki, Nobutaka Ikeda, Filippo Molinari, Nilanjan Dey, Suvnit Acharjee, Luca Saba, Andrew Nicolaides, Jasjit Suri*
1836819 Effectiveness of the "Mastoid Tap" Maneuver for Identification of Vertebral Artery Ostia
Hang Yee Lau,* Dily Chai Yu Lui, Paul Lombardo, Michal Schneider-Kolsky
1843378 Evaluation of Common Carotid Artery Changes in Saudi Current Smokers Using Medical Ultrasound (B-Mode and Doppler)
Khalid Alzimami,* Mustafa Mahmoud, Abdelmonein Suleiman

Contrast-Enhanced Ultrasound
1831910 Role of Contrast-Enhanced Ultrasound for Therapy Response Evaluation in Soft Tissue Sarcomas With Preliminary Results
Mittul Gulati, Alok Bhatt, Bhushan Desai, Ed Grant, James Hu, Vinay Duddalwar*
1837964 Contrast-Enhanced Ultrasound to Diagnose Apophysis Lesions of the Gallbladder Larger Than 1.0 cm
Shaoshan Tang
1847664 Contrast Enhanced Body Ultrasound: a Step Up in Further Characterization
Nicholas Bhojwani, Jason Hartman, Nami Azar*

Emergency and Critical Care Ultrasound: All Areas
1742829 What Is the Ideal Approach for Emergent Pericardiocentesis Using Point-of-Care Ultrasound Guidance?
Lori Stolz,* Matt Thompson, Nicolas Hawbaker, Uwe Stolz, Srikar Adhikari
1742873 Implementation of a Point-of-Care Ultrasound Billing and Reimbursement Program: Fiscal Impact
Srikar Adhikari,* Albert Fiorello, Richard Amini, Lori Stolz, Katie O’Brien, Austin Gross
1748040 Bedside Lung Ultrasound Findings in Wheezing Children Younger Than 2 Years
Joanna Cohen, Naomi Hughes, Sonny Tat, James Chamberlain, Stephen Teach, Keith Boniface*
1756154 Can Emergency Medicine Residents Apply Ultrasound Knowledge to Evaluate Hydration Status?
Robert Bramante,* Eric Boccio, Emily Kintzer, Christopher Raio
1756254 Comparison of the AMI9700 Aorta Scanner to Computed Tomographic Imaging for Aortic Diameter Measurement
Robert Bramante,* Eric Boccio, Emily Kintzer, Andrew Chen, Sandra DeCicco, Amy Patwa, Robert Gekle, Tracy Cattin, Christopher Raio
1770657 Telesimulation to Teach Ocular Ultrasound: A Novel Method to Teach Ultrasound in Remote Locations
Donald Byars, Barry Knapp, William Dischong, Virginia Stewart, David Evans*
1832761 Methylene Blue–Coated Definity as a Dual Contrast Agent for Photoacoustic and Contrast-Enhanced Ultrasound Imaging
John Eisenbrey,* Daniel Merton, Ji-Bin Liu, Flemming Forsberg
1838786 Physician Accuracy in Detecting Stingray Spines in a Porcine Model Using Bedside Ultrasonography
Charles O’Connell, Asia Takeuchi,* Christian Tomaszewski, Anthony Medak
1839241 A Prospective Review of Survival Rates of Ultrasound-Guided Peripheral Intravenous Catheters
Steven Joseph,* Abigail Brackney, Amit Bahl
E-Posters

1840900 Comparison of Chest Ultrasound Techniques to Identify Clinically Significant Pneumothorax
Gregg Helland,* Romolo Gaspari, Samuel Licciardo, Ulises Torres, Timothy Emhoff, David Blehar

1843107 The Effect of Point-of-Care Ultrasonography on Emergency Department Length of Stay and Computed Tomography Utilization in Children With Suspected Appendicitis
Ee Tay,* Elikashvili Inna, James Tsung

1844149 A Survey of Emergency Physician Use of Bedside Ultrasound in North Carolina
Vivek Tayal,* Erin Noste, Stephen Keller

1844195 Prospective Evaluation of the Bedside Soft Tissue Ultrasound Measurement Threshold to Yield Positive Emergency Department Drainage Procedures
Vivek Tayal, Margaret Lewis,* Carrie Fales, William Anderson, James Norton

1845272 Value of Duplex Echocardiography in the Detection of Aspirated Secretions in Ventilated Patients
Shinpei Ogawa,* Kazuhiro Nishigami, Koichi Nakao, Hideyuki Uesugi, Toitsu Hirayama

1845442 Assessment of Gastric Contents With Point-of-Care Ultrasound
David Mackenzie,* Andrew Eyre, Vicki Noble, Andrew Liteplo

1845554 Utility of Ultrasound in the Evaluation of Acute Complications of Image-Guided Abdominal Interventions
Vijayanadh Ojili,* Arpit Nagar

1847035 Development of a Novel Clinical Ultrasound Thread in a Third-Year Longitudinal Integrated Medical School Curriculum
Margaret Lewis,* Vivek Tayal

1847039 Focused Assessment With Sonography for Trauma Examination: Reexamining the Left Upper Quadrant View
Kathleen O’Brien,* Srikard Adhikari, Lori Stolz

1847306 Point-of-Care Ultrasound in the Diagnosis and Management of Submassive Pulmonary Embolism in the Emergency Department
Richard Amini,* Ashish Panchal, David Bahner, Srikard Adhikari

1847316 Use of Ultrasound to Monitor Blood Flow and Thrombus Formation Around a Radial Artery Catheter and Intravascular Glucose Sensor in Surgical Patients
Priscilla Machado,* Ji-Bin Liu, Brian Hipszer, Channy Loeum, Jennifer Lessin, Kathleen O’Malley, Paul Strasma, Jeffrey Joseph

1847486 Pediatric Emergency Ultrasound in El Salvador: Evaluating Utilization After an Ultrasound Training Collaboration
Simon Shamass,* Jennifer Chao, Jose Saldarada

1847553 An Educational Model for Teaching Focused Assessment With Sonography for Trauma to Surgical Residents: Update
Eliza Beal,* Kara Keplinger, Creagh Boulger, David Bahner, Daniel Eiferman

1847588 Resident-Led Training Program for Left Ventricular Ejection Fraction Determination for International Emergency Medicine Residents
Mary Jacob,* Keith Boniface, Amelia Pousson, Hamid Shokoohi

1847689 Introducing Pediatric Emergency Ultrasound in Resource-Limited Emergency Departments: Examining Experiences of an Implementation in El Salvador
Simon Shamass,* Jennifer Chao, Jose Saldarada

1848373 Feasibility of a Novel Ultrasound-Guided Vascular Access Device: A Pilot Study
Robinson Ferre,* Shannon Snyder, Matthew Lipton

Fetal Echocardiography

1835022 Fetal Cardiac Manifestations of Marfan Syndrome: Case Report and Review of the Literature
Sanitra Anuwutnavin*, Lydia Lee, Neil Silverman, Mark Sklansky

General and Abdominal Ultrasound: Breast

1833654 Blood Vessel Distribution and Flow Pattern of Breast Cancer on Color Doppler Sonography
San-Kan Lee,* Mein-Kai Gueng, Yu-Pin Chang, Yocu-Gie Su

1845108 Adenomyoepithelioma of the Breast: Ultrasound Findings and Clinical Characteristics
Eun Young Ko,* Boo-Kyung Han, Jung Hee Shin, Eun Sook Ko, Soo Yoen Hahn

1845231 Unusual Mesenchymal Lesions of the Breast: Ultrasound Features With Radiologic-Pathologic Correlation
Priyanka Handa,* A. Jill Leibman, Adam Kornmehl, Maria Abadi

* indicates presenter.
### General and Abdominal Ultrasound: General

<table>
<thead>
<tr>
<th>ID</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>1743765</td>
<td>Noninvasive Assessment of Hepatic Fibrosis by Tissue Strain Imaging in Chronic Hepatitis C Patients</td>
<td>Naoki Hotta,* Tsuyoshi Kurokawa</td>
</tr>
<tr>
<td>1780096</td>
<td>Noninvasive Diagnosis of Nonalcoholic Fatty Liver Disease by the FibroScan Controlled Attenuation Parameter and Transient Elastography</td>
<td>Lili Yuan, * Rui Zhang, Na Zhu, Ping Cao, Aiqing Zhang, Jia Yao, Yanping Zhang, Lingyun Niu, Wenjuan Liu</td>
</tr>
<tr>
<td>1836811</td>
<td>Three-Dimensional Ultrasound Applications in Abdominal Imaging</td>
<td>Susan Frank,* Tova Koenigsberg, Mordecai Koenigsberg</td>
</tr>
</tbody>
</table>

### General and Abdominal Ultrasound: Neck

<table>
<thead>
<tr>
<th>ID</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>1830354</td>
<td>Incidentalomas on Thyroid and Carotid Ultrasound</td>
<td>Mike Nguyen,* Shweta Bhatt, Deborah Rubens</td>
</tr>
<tr>
<td>1843465</td>
<td>Ultrasonographic Findings in Primary Hyperparathyroidism</td>
<td>Arash Anvari,* Anthony Samir</td>
</tr>
<tr>
<td>1846410</td>
<td>Utility of Neck Ultrasound in Preoperative Planning of Lateral Neck Dissection in Thyroid Cancer Patients</td>
<td>Stephanie Coquia,* Franco Verde, Sheila Sheth, Ulrike Hamper</td>
</tr>
<tr>
<td>1846422</td>
<td>Use of Ultrasound in the Evaluation of the Oropharynx</td>
<td>Stephanie Coquia,* Carole Fakhry, Ulrike Hamper</td>
</tr>
<tr>
<td>1847206</td>
<td>Sonography of the Normal Oropharynx</td>
<td>Stephanie Coquia,* Carole Fakhry, Ulrike Hamper</td>
</tr>
</tbody>
</table>

### General and Abdominal Ultrasound: Urinary Tract

<table>
<thead>
<tr>
<th>ID</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>1830882</td>
<td>The Sources of Pseudomasses of the Kidney on Sonography</td>
<td>Mein-Kai Gueng,* San-Kan Lee, You-Hsin Chiu, Yeuu-Gie Su, Clayton Chen</td>
</tr>
<tr>
<td>1846663</td>
<td>Ultrasound Diagnosis of Ureteral Calculi Presenting as Acute Scrotum</td>
<td>Ronald Wachsberg</td>
</tr>
</tbody>
</table>

### Gynecology (Including Ectopic Pregnancy)

<table>
<thead>
<tr>
<th>ID</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>1826522</td>
<td>Pregnancy of Unknown Location</td>
<td>Min Hoan Moon,* Jeong Yeon Cho, Hyuck Jae Choi, Sung Il Jung</td>
</tr>
<tr>
<td>1833798</td>
<td>Case Presentations of Wandering Intrauterine Devices on 3-Dimensional Ultrasound</td>
<td>Seng Thippavong,* Shaile Philips</td>
</tr>
<tr>
<td>1833805</td>
<td>What Are You Seeing in 3 Dimensions?</td>
<td>Seng Thippavong,* Shaile Philips</td>
</tr>
<tr>
<td>1839905</td>
<td>Role of 3-Dimensional Ultrasound in Uterine Anomalies</td>
<td>Dilkash Kajal,* Seng Thippavong</td>
</tr>
</tbody>
</table>

### Interventional-Intraoperative Ultrasound

<table>
<thead>
<tr>
<th>ID</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>1846264</td>
<td>Ultrasound-Guided Palliative Therapy</td>
<td>Salim Abboud,* Amy Rutledge, Nami Azar</td>
</tr>
<tr>
<td>1846753</td>
<td>Interventional Alternatives for Treatment of Refractory Ascites</td>
<td>Nicholas Bhojwani, Jason Hartman, Nami Azar</td>
</tr>
<tr>
<td>1847673</td>
<td>Body Intervention Made Safer and Easier With Ultrasound and Computed Tomographic or Magnetic Resonance Fusion</td>
<td>Nicholas Bhojwani, Jason Hartman, Nami Azar</td>
</tr>
</tbody>
</table>
### Musculoskeletal Ultrasound

| 1743430 | Distribution Pattern of Sonographically Guided Iliopsoas Injections: Cadaveric Investigation Using Coned Beam Computed Tomography | 1840838 | Multiple First-Trimester Sonographic Markers in the Detection of Trisomy 13, 18, 21, and 45,X0 Pharuhas Chanprapaph,* Chitnapin Dulyakasem, Buraya Phattanchindakun |
| 1829330 | Ultrasound Diagnosis of Dialysis-Related Amyloidosis in Patients With End-Stage Renal Disease Receiving Long-term Dialysis Elena Polukhina,* Liudmila Glazun | 1844279 | The 3-Vessel View as a Screening Test for Congenital Heart Disease Justin Brandt,* Eileen Wang, Jack Rychik, Debbra Soffer, Nadav Schwartz |
| 1830221 | Ultrasound Diagnosis of Uremic Tumoral Calcinosis Elena Polukhina,* Liudmila Glazun | 1845562 | Fetal Diagnosis of Lobar Holoprosencephaly: Are You Missing the Clues to This Diagnosis? David Pettersson,* Brian Shaffer, Elizabeth Yutan, Roya Sohaey, Karen Oh |
| 1839543 | Medical Student Perceptions of Point-of-Care Ultrasound in Musculoskeletal Education Minna Kohler,* Joshua Rempell, Margaret Seton | 1846332 | Additional Fetal Magnetic Resonance Imaging Can Be Helpful in Prenatal Diagnosis of Fetal Anomalies Si Won Lee,* Moon Young Kim, Jin Hoon Chung, You Jung Han, Dong Wook Kwak |
| 1842338 | Use of Dynamic Ultrasonography in the Diagnosis and Management of Tarsal Coalition: Case Report Bradley Thompson,* Amy McIntosh, Jay Smith | 1846866 | Prenatal and Postnatal Ultrasound and Magnetic Resonance Imaging Findings of Fetal Brain Lesions: A Pictorial Review Jeong Yeon Cho,* Min Hoan Moon, Hyuck Jae Choi, Sung Il Jung |
| 1842556 | Chronic Musculoskeletal Pain Control: An Evidence-Based Approach Hong-Jen Chiou,* Shung-Tai Ho, Yi-Hong Chou | 1847062 | Added Value of Fetal Magnetic Resonance Imaging in the Diagnosis of Central Nervous System Anomalies Sherelle Laifer-Narin,* Sarah Esaa |
| 1847576 | Reliability of Ultrasonographic Measurements of the Thickness of the Middle Trapezius: Changes With Resistance and Measurement Sites Dexter Witt,* Nancy Talbott | 1847376 | Prenatal and Postnatal Ultrasound and Magnetic Resonance Imaging Findings of Fetal Brain Lesions: A Pictorial Review Jeong Yeon Cho,* Min Hoan Moon, Hyuck Jae Choi, Sung Il Jung |
| 1847675 | In Vivo Measurements of Humeral Head Translation During Glenohumeral Posterior Mobilizations Using Sonography Nancy Talbott, Dexter Witt* | 1837681 | Third-Trimester Fetal Biometry and Neonatal Outcomes in Preterm Deliveries J. Christopher Glantz,* Tejas Sheth, Lisa Gray |

### Obstetric Ultrasound: Fetal Anomalies

| 1827531 | Mosaic Overgrowth Syndrome: Sonographic and Genetic Discordance Between Affected and Nonaffected Feet Eran Bornstein,* Carlos Bacino, Kristen Maliszewski, Michael Divon | 1837681 | Third-Trimester Fetal Biometry and Neonatal Outcomes in Preterm Deliveries J. Christopher Glantz,* Tejas Sheth, Lisa Gray |
| 1829710 | Spontaneous Antepartum Subcapsular Hematoma of the Fetal Liver James Maher, Brittany Van Beek,* Peter Hsu, Randall Kelly | 1847376 | Prevalence of Nuchal Cords Noted During Nuchal Translucency Screens and Adverse Perinatal Outcomes Donna Lambers, Armita Kumar* |
| 1833418 | Prenatal Evaluation of Infantile Myofibroma Maria Calvo-Garcia,* Constance Bitters, Beth Kline-Fath | 1827531 | Mosaic Overgrowth Syndrome: Sonographic and Genetic Discordance Between Affected and Nonaffected Feet Eran Bornstein,* Carlos Bacino, Kristen Maliszewski, Michael Divon |

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E-Posters

Obstetric Ultrasound: General

1833957  Prenatal Diagnosis of Fetal Hydronephrosis: Inter-Rater Reliability of the Anteroposterior Diameter Versus the Society of Fetal Urology Grading System
Brian Shaffer, Joe Chan, Amy Doss, Jeong Lim, Raya Sohaey, Karen Oh

1838466  Normogram for the Fetal Nasal Bone at 18 to 24 Weeks in a Lebanese Population
Reem Abu-Rustum, M. Fouad Ziade, Assaad Kesrouani, Sameer Abu-Rustum

1844935  Mid trimester Fetal Thymic Measurement: Results of an Intraobserver Reproducibility Study
Justin Brandt, Nadav Schwartz

1846216  Obstetric and Neonatal Outcomes Associated With a Prenatal Ultrasound Diagnosis of a Small Fetal Stomach in the Midtrimester
Karen Florio, Rosemary Froehlich, Manika Sharma, Shareece Davis, Toby Yanowitz, Paul Speer

1846386  Bowel Herniation Through the Broad Ligament Mimicking Ovarian Torsion: A Novel Presentation
Natasha Gupta, Leo Boler, Josef Blankstein

1847303  Utility of Mid trimester Ultrasound Assessment of Abdominal Wall Thickness in Predicting Cesarean Wound Complications
Nandini Raghuraman, Scott Shainker, Anna Merport Modest, William Schnettler, Michele Hacker, Steven Ralston

Pediatric Ultrasound

1847630  Ultrasound of Gastrointestinal Polyps in Children
Xiaoman Wang, Richard Bellah

Sonography: Education and Training

1833691  Use of Ultrasound in the Evaluation and Management of Head and Neck Squamous Cell Carcinoma
Julia Dry, Jason Wagner, Trinitia Cannon, Anthony Alleman

1842430  Understanding the Impact of Images on Physician Attitudes Regarding Emergency Ultrasound Feedback
Brianna Steele, Abhiram Reddy, Kerri Layman

1842896  Intensive Care Unit Ultrasound Rounds: A Novel Method of Exposing Students to Ultrasound Pathology
Rebekah Zaiser, Matt Blickendorf, Eric Adkins, David Bahner

Obstetric Ultrasound: New Techniques

1846651  Diaphragmatic Kinetics by M-Mode Sonography Coupled With Spirometry Before and After Delivery
Jean Ayoub, Olivier Belin, Franck Perrotin, Marc Lafont

Obstetric Ultrasound: Uterus, Placenta, and Cervix

1844007  The ACES Program: Accurate Cervical Evaluation With Sonography
Margaret Chory, William Schnettler, Melissa March, Michele Hacker, Anna Modest, Diana Rodriguez

1847511  Using Twitter to Deliver a Question-and-Answer Ultrasound Curriculum in Medical Education
Lydia Sahlani, Saad Ranginwala, David Bahner

1847592  Hands-on Ultrasound Sessions as an Adjunct to the Renal Curriculum
Thomas Feehan, David Bahner

1847603  Bishop Score Versus Cervical Length Shortening After Cervical Ripening as a Marker of Induction of Labor Success
Marcos Cordoba, Ana Monteagudo, Jonathan Rosner, Margaret Dziadosz, Li Jin Joo, Ilan E. Timor-Tritsch

1847639  Do Culture and Keepsake Ultrasound Contribute to Birth Gender Bias in California?
G. Sharat Lin
E-Posters

Sonography: Practice Management

1844366  Maintaining Departmental Quality While Increasing Patient Volumes
         Nami Azar,* Amy Rutledge

1847619  Factors Associated With an Increased Visualization Rate of Fetal Anatomic Structures During the First-Trimester Ultrasound Examination
         Marcos Cordoba,* Ana Monteagudo, Cara Dolin, Margaret Dziadosz, Li Jin Joo, Ilan E. Timor-Tritsch

Therapeutic Ultrasound

1843531  Imipenem Therapy Enhanced by Continuous Therapeutic Ultrasound for Ankylosing Spondylitis
         Mingde Li

1847593  Dynamic Ultrasound of the Lateral Abdominal Muscles During the Leg-Lowering Test
         Rose Smith,* Susan Kotowski, Dee Patel, Derrick Cannon, Kelli Barton, Katie Reist

* indicates presenter.

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Exhibit Hall Hours

Octavius Ballroom
Promenade South

Sunday, March 30
11:30 AM–4:30 PM
Grand Opening Luncheon
11:30 AM–1:00 PM

Monday, March 31
9:30 AM–4:30 PM
Coffee Service
9:30 AM–10:15 AM
Refreshment Break
10:15 AM–11:00 AM
Lunch
12:30 PM–1:30 PM
Refreshment Break
3:30 PM–4:00 PM

Tuesday, April 1
9:30 AM–4:30 PM
Coffee Service
9:30 AM–10:15 AM
Refreshment Break
10:15 AM–11:00 AM
Lunch
12:30 PM–1:30 PM
Refreshment Break
3:30 PM–4:00 PM

Wednesday, April 2
9:30 AM–4:30 PM
Coffee Service
9:30 AM–10:15 AM
Refreshment Break
10:15 AM–11:00 AM
Lunch
12:30 PM–1:30 PM
Refreshment Break
3:30 PM–4:00 PM
Exhibit Hall Floor Plan

Octavius Ballroom • Caesars Palace Conference Center • Promenade South
#2014 Exhibitors

## by Booth Number

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<thead>
<tr>
<th>Booth Number</th>
<th>Company Name</th>
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<tbody>
<tr>
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<td>Gulf Coast Ultrasound Institute, Inc</td>
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## 2014 Exhibitors

Listed Alphabetically

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<tr>
<th>Exhibitor Name</th>
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<tbody>
<tr>
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Exhibit Information

Exhibitor Profiles

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**American Registry for Diagnostic Medical Sonography (ARDMS)**

1401 Rockville Pike, Suite 600
Rockville, MD 20852 USA
Phone: 301-738-8401 or 800-541-9754
Fax: 301-738-0312
E-mail: communications@ardms.org
Website: http://www.ardms.org

The American Registry for Diagnostic Medical Sonography (ARDMS), incorporated in 1975, is an independent nonprofit organization that administers examinations and awards credentials in the areas of diagnostic medical sonography (RDMS), diagnostic cardiac sonography (RDCS), vascular interpretation (RPVI), vascular technology (RVT), and musculoskeletal sonography (RMSK). The ARDMS has nearly 80,000 certified individuals throughout the world and is considered the global standard in medical ultrasound credentialing.

**7D Imaging, Inc**

5387 Manhattan Cir
Boulder, CO 80303 USA
Phone: 877-977-1875
E-mail: info@7Dimaging.com
Website: http://www.msknav.com

7D Imaging, Inc, is pleased to announce mskNAV, a new paradigm for learning and navigating musculoskeletal (MSK) ultrasound. Going beyond traditional education methods, iPad-based mskNAV presents easy-to-use, intuitive reference guides at your fingertips when you need them most, even at the bedside. Streamline your learning with step-by-step guidance of what to look for, ultrasound videos with comparative normal and abnormal views, potential pitfalls, and expert tips and pearls. Build your confidence using MSK ultrasound—mskNAV is like having an ultrasound expert by your side. In addition, use mskNAV’s stunning 3D anatomy as a visual teaching tool to help educate patients.

**American Registry of Radiologic Technologists (ARRT)**

1255 Northland Dr
St Paul, MN 55121 USA
Phone: 651-687-0048
Website: http://www.arrt.org

The American Registry of Radiologic Technologists’ (ARRT’s) sonography certification covers a wide scope of practice with just one exam and has eligibility pathways for practicing sonographers as well as for recent graduates of educational programs. Developed by practicing sonographers, educators, ultrasound physicians, and physicists, the 400-question exam is designed to be clear and complete. It covers the Joint Review Commission on Education in Diagnostic Medical Sonography–approved sonography curriculum and spans a spectrum of procedures, including abdomen and pelvis, obstetrics and gynecology, and more. ARRT certification provides qualified confidence for sonographers, their employers, and—ultimately—patients.

**ALPINION Medical Systems, Inc**

21312 30th Dr SE, Suite 100
Bothell, WA 98021 USA
Phone: 425-949-4900
E-mail: info@alpinionusa.com
Website: http://www.AlpinionUSA.com

ALPINION Medical Systems believes that technology is only meaningful when it delivers value to health care providers. Guided by this philosophy, ALPINION focuses on the development and production of ultrasound, including diagnostic ultrasound, therapeutic high-intensity focused ultrasound, and advanced piezoelectric crystal and single-crystal transducer technology. Winner of the Red Dot Design Award and IF Design Award for excellence in product innovation, our E CUBE portfolio of diagnostic ultrasound platforms ranges from premium to portable systems and provides ergonomic design, efficient work flow, and extreme accuracy.
Exhibit Information

American Society of Echocardiography (ASE)  
Booth 423
2100 Gateway Centre Blvd, Suite 310  
Morrisville, NC 27560 USA  
Phone: 919-861-5574  
Fax: 919-882-9900  
E-mail: ase@asecho.org  
Website: http://www.asecho.org

As the largest global organization for cardiovascular ultrasound imaging, the American Society of Echocardiography (ASE) is the leader and advocate, setting practice standards and guidelines. Comprising more than 16,000 physicians, sonographers, nurses, and scientists, The ASE is a strong voice, providing guidance, expertise, and education to its members with a commitment to improving the practice of ultrasound and imaging of the heart and cardiovascular system for better patient outcomes. Stop by booth 423 for a free ASE Guidelines CD. ASE staff will be on hand to answer your membership, education, and product questions.

Analogic Ultrasound  
Booth 100
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Peabody, MA 01960 USA  
Phone: 978-326-4000  
Fax: 978-977-6809  
E-mail: info@analogicultrasound.com  
Website: http://www.analogicultrasound.com

Analogic’s ultrasound group designs and manufactures ultrasound systems for a range of specialties under the BK Medical and Ultrasonix brands. Sound Technology develops specialized transducers for Analogic and other manufacturers. Our innovative ultrasound products offer premium imaging and unique features for urology, surgery, anesthesiology, musculoskeletal, emergency medicine, and reproductive medicine applications.

AS Software, Inc  
Booth 417
560 Sylvan Ave  
Englewood Cliffs, NJ 07632 USA  
Phone: 201-541-1900  
Fax: 201-541-1199  
E-mail: info@as-software.com  
Website: http://www.as-software.com

AS Software, Inc, specializes in ultrasound reporting and image management systems, for maternal-fetal medicine, obstetrics and gynecology, radiology, and vascular medicine, which offer both physicians and hospitals state-of-the-art data management systems with reports, images, and graphs in one easy-to-read clear, comprehensive, and concise report. AS Software has been providing scalable and robust solutions using a structured clinical database for more than 21 years and has earned a reputation for excellence in the ultrasound reporting industry. AS Software offers seamless integration with your health information systems (eg, hospital information systems, radiology information systems, picture archiving and communication systems, electronic health records, and electronic medical records) to enable interoperability across platforms.

Center for Fetal Diagnosis and Treatment at the Children’s Hospital of Philadelphia (CHOP)  
Booth 300
34th Street and Civic Center Boulevard  
5126 Wood Building  
Philadelphia, PA 19104 USA  
Phone: 215-590-5298  
Fax: 215-590-2447  
E-mail: galiem@email.chop.edu  
Website: http://www.fetalsurgery.chop.edu

The center provides multidisciplinary care for mothers carrying fetuses with known birth defects, from prenatal evaluation, diagnosis, and surveillance through delivery and treatment. Therapies include fetoscopy, open fetal surgery, and postnatal surgery. In 2008, we opened the Garbose Family Special Delivery Unit, the world’s first birth facility devoted exclusively to women carrying fetuses with diagnosed birth defects, providing comprehensive, compassionate care focused on two patients: mother and baby.
CIRS, Inc
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E-mail: info@cirsinc.com
Website: http://www.cirsinc.com

CIRS manufactures a wide range of ultrasound products for quality assurance, training, demonstration, and research. Our products are on the cutting edge of emerging technologies, such as image fusion and shear wave imaging. As more companies develop ultrasound phantoms, our proprietary Zerdine material sets CIRS phantoms apart. A recent reformulation makes for more durable phantoms and minimizes the effect of needle tracks during image-guided interventional procedures. CIRS phantoms uniquely mimic the imaging properties of human tissue in a full range of modalities. Celebrating 30 years as a worldwide leader in phantom manufacturing and tissue simulation, CIRS has earned a reputation for outstanding quality.

CIVCO Medical Solutions
Booth 422
102 First St S
Kalona, IA 52247 USA
Phone: 319-656-4447
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E-mail: info@civco.com
Website: http://www.CIVCO.COM

With more than 30 years of experience, CIVCO Medical Solutions is a recognized leader in increasing patient throughput and clinical productivity while improving patient outcomes. The Multimodality Imaging Unit designs, manufactures, and markets accessories for use in diagnostic and therapeutic imaging and interventional procedures, with a strong focus on ultrasound. CIVCO partners with leading imaging and device manufacturers to supply innovative needle guidance and infection prevention products, including the revolutionary eTRAX needle guidance system, infection control and transducer covers, and positioning and stabilizing equipment. CIVCO offers products for men’s and women’s health care, anesthesia, echocardiography, vascular access, gastroenterology, surgery, and emergency medicine.

Conquest Imaging
Booth 106
1815 Industrial Dr, Suite 100
Stockton, CA 95206 USA
Phone: 866-900-9404
Fax: 209-942-2572
E-mail: mtomory@conquestimaging.com
Website: http://www.conquestimaging.com

Conquest Imaging is a full-service ultrasound support organization. We deliver local field service, parts and probes, reconditioned systems, and technical support, all at a fraction of the cost of the manufacturer. For the highest quality, lowest cost-of-ownership ultrasound service and support, Conquest Imaging is the one call to make.

Cook Medical
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Bloomington, IN 47402 USA
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E-mail: susan.rumple@cookmedical.com
Website: http://www.cookmedical.com

With international headquarters in Bloomington, Indiana, Cook Medical, the world’s largest privately held medical device manufacturer, is a leading designer, manufacturer, and global distributor of minimally invasive medical device technology for diagnostic and therapeutic procedures. Since its founding in 1963, Cook has created innovative technologies for radiology, cardiology, urology, critical care medicine, general surgery, assisted reproduction, gynecology and obstetrics, endovascular medicine, gastroenterology, and endoscopy.

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Fax: 919-528-3400
E-mail: sales@csmedicalllc.com
Website: http://www.csmedicalllc.com

Established in 2003, CS Medical, LLC, has pioneered the automated disinfection process for transesophageal ultrasound probes with the development and release of the TD 100 Automated transesophageal echocardiographic (TEE) probe disinfector. The TD 100 is the first US Food and Drug Administration (FDA)-cleared automated disinfection process with printed verification for transesophageal ultrasound probes. During the disinfection process, the TEE probe receives high-level disinfection in 5 minutes followed by 5 complete rinse cycles before disinfection confirmation is acknowledged and a report is printed. The TD 100 automated TEE probe disinfector eliminates manual reprocessing of delicate and expensive TEE ultrasound probes while providing a repeatable and FDA-cleared disinfection process.
Delphinus Medical Technologies, Inc

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E-mail: dsaunders@delphinusmt.com
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Delphinus Medical Technologies, Inc is an innovation leader in advanced ultrasound development, introducing a dynamic new technique to image the breast with the use of sound and water. Headquartered in Plymouth, Michigan, Delphinus is the first company to design and manufacture a whole-breast ultrasound system that uses a ring transducer to transmit and receive ultrasound signals. Known as SoftVue, the system captures reflection echoes from all directions around the breast and gathers transmitted signals coming through the breast, something no other ultrasound system currently available can do. SoftVue has received 510(k) clearance from the US Food and Drug Administration for diagnostic ultrasound imaging and is not a replacement for screening mammography. Delphinus is committed to creating improved imaging methods that assist medical professionals to better define and diagnose breast disease, while establishing a better patient experience that can be available for all women, regardless of age, and without concern for radiation or discomfort.

Digisonics, Inc

3701 Kirby Dr
Houston, TX 77098 USA
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Website: http://www.digison.com

Digisonics has set the standard in picture archiving and communication systems and structured reporting systems for more than 25 years, with the first review station, the first fully functional Web-based system, and a fully integrated 3/4-dimensional analysis package.

Electronics & Innovation, Ltd

Electronics & Innovation, Ltd (E&I), is a world leader in providing rugged and reliable radiofrequency (RF) power. Covering all the frequencies required for any ultrasound application, E&I offers a complete line of RF amplifiers with power levels ranging from 1–2000 W. The linearity and ruggedness of E&I’s amplifiers make them ideal for applications such as high-intensity focused ultrasound, ablation, drug delivery, cavitation, imaging, and lithotripsy. E&I also designs and manufactures matching transformers, variable transformers, phased array systems, and various amplifier components designed specifically for ultrasound applications. In addition to our standard line, we also specialize in custom original equipment manufacturer solutions. E&I operates globally and is committed to providing RF power solutions of the highest quality, durability, and ruggedness.

Elsevier

Elsevier is a leading publisher of health science publications, advancing medicine by delivering superior reference information and decision support tools to physicians, nurses, health practitioners, and students. With an extensive media spectrum—print, online, and handheld—we are able to supply the information you need in the most convenient format.

Esaote North America, Inc

Esaote North America, part of the Esaote Group, is a global leader in research, production, and marketing of diagnostic medical equipment. Among the largest manufacturers of ultrasound systems worldwide, Esaote prides itself in achieving superior price and performance over competitors through focused ultrasound and office-based magnetic resonance imaging.
Fetal Medicine Foundation, USA (FMF)  Booth 113
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Dayton, OH 45424 USA
Phone: 937-208-8382
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Website: http://www.fetalmedicineusa.com

The Fetal Medicine Foundation (FMF) is recognized as the world leader in first-trimester screening (FTS) training and accreditation, with more than 58,000 participants worldwide. We are a nonprofit charitable organization whose main goal is to improve the health of pregnant women and their babies through our programs. Free online courses are available at www.fetalmedicineusa.com in FTS, Doppler ultrasound, echocardiography, cervical assessment, videos of fetal defects, and lectures. The 11–13-week scan course covers all of the important aspects of first-trimester screening for chromosomal abnormalities, the diagnosis of major fetal defects, and screening for preeclampsia. First-trimester accreditation offered includes nuchal translucency, nasal bone, tricuspid flow, ductus venosus, and uterine artery Doppler.

FUJIFILM Sonosite, Inc  Booth 213
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FUJIFILM Sonosite, Inc, the world leader in bedside and point-of-care ultrasound, delivers solutions that meet imaging needs of the medical community. With its acquisition of VisualSonics’ ultra high-frequency micro imaging technology, Sonosite continues to influence the future of medical ultrasound in both the clinical and preclinical markets.

Gammex, Inc  Booth 420
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Middleton, WI 53562 USA
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Website: http://www.gammex.com

Gammex is a leader in the manufacture and sale of quality assurance phantoms for ultrasound applications, and is a worldwide sales organization that sells these products to hospitals, service organizations, government agencies, and medical physics companies. In addition to ultrasound phantoms, Gammex also sells products for quality assurance and alignment applications in the diagnostic radiology, mammography, radiation oncology, and laser alignment markets.

GE Healthcare  Booth 101
9900 Innovation Dr, RP 2139
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GE Healthcare provides transformational medical technologies that will shape a new age of patient care. GE Healthcare’s expertise in medical imaging and information technologies, medical diagnostics, patient-monitoring systems, disease research, drug discovery, and biopharmaceuticals is dedicated to detecting disease earlier and tailoring treatment for individual patients. GE Healthcare offers a broad range of services to improve productivity in health care and enable health care providers to better diagnose, treat, and manage patients. For more information, visit www.gehealthcare.com.

GMI, LLC  Booth 223
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GMI is your nationwide partner for acquiring, maintaining, and managing all of your ultrasound and nuclear medicine assets. GMI provides new and refurbished equipment, on-hand parts to maximize uptime, probe repair solutions to help reduce operating cost, a national network of service engineers to reduce down time, and 24/7 technical support to diagnose problems and often times fix them over the phone. We also provide hands-on training to enable you to improve your in-house capabilities. We strive to be innovative, to continue to help lower the cost of high-quality health care, and pass along those savings to our customers. Our unyielding integrity allows us to say that we are the best at what we do...taking care of our customers.

Gulfcoast Ultrasound Institute, Inc  Booth 108
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Gulfcoast Ultrasound Institute is the gold standard when it comes to ultrasound education. More than 131,000 medical professionals have received education through Gulfcoast Ultrasound’s seminars, products, and online education since 1985. Gulfcoast Ultrasound’s participant-to-instructor ratio is the lowest in the industry, at 3:1. Customized on-site training and live ultrasound webinars are also offered.
Exhibit Information

Hitachi Aloka Medical, Ltd  
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Website: http://www.hitachi-aloka.com

As a recognized leader in ultrasound innovation, Hitachi Aloka Medical is known for unparalleled image quality, superior system reliability, and intuitive use of innovative technologies. Hitachi Aloka Medical has the answer for all of your clinical diagnostic requirements.

Imorgon Medical, LLC  
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Website: http://www.imorgon.net

Imorgon’s integrated ultrasound software solutions are designed to cost-effectively advance work flow efficiency, improve reporting accuracy, and increase patient safety. Imorgon Report Accelerator—Advance work flow efficiency through seamless transfer of numeric data from the ultrasound system to the dictated report while eliminating paper forms. Dictation errors are reduced, and reporting speed is increased. Paper drawings are also replaced with electronic diagrams for noting and tracking pathology over time. Both electronic worksheets and drawings can be saved with the image set for easy viewing on a picture archiving and communication system (PACS). Dual-energy x-ray absorptiometric data are also transferred directly into the reporting system, saving dictation time, decreasing errors, and increasing patient safety. Imorgon Ultrasound View—Use the full value of your ultrasound systems, and see the complete diagnostic picture by viewing both static images and auto-playing cine clips in their proper order. Unlike PACS, which limit clip use, Imorgon enables clip review of any length, a critical feature for contrast studies. Sonographer Quality Control Tools—Improve reporting accuracy, by performing quality control measures without information technology support: easily correct the patient name and identification on the images; correct study exceptions; split studies that were accidentally merged; and combine a patient’s exam done in two different rooms. PACS Integration—This is not a standalone application that runs in its own world on your PACS workstation. Imorgon is seamlessly integrated with your PACS software for work flow efficiency.

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Established in 1948, with origins in the 1800s, Kyoto manufactures internationally acclaimed simulation training mannequins and models. Kyoto’s expertise spans several major disciplines, including imaging, medical, and nursing education. The experiential training afforded by Kyoto’s high-fidelity products helps instructors enable students to become professionals.

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MedaPhor is a global ultrasound training company selling the award-winning ScanTrainer ultrasound training simulator. The virtual reality simulator combines “real-feel” haptic simulation with real patient scans and curriculum-based interactive learning to provide fast and effective 24/7 ultrasound training in a nonclinical environment. ScanTrainer’s unique ScanTutor learning software provides a personalized education environment that minimizes both the time required by an expert to teach and the need for a variety of patients to learn on. This makes the ScanTrainer system both resource-efficient and highly cost-effective. ScanTrainer comes with integrated core skills training modules and a wide range of advanced skills pathology modules and diagnostic case studies for the more experienced practitioner.
Mindray North America
Booth 427
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Mahwah, NJ 07430 USA
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Mindray North America is a company founded on innovation, accompanied by an enduring commitment to customer service and an unwavering dedication to improving patient care. Mindray offers a full complement of monitoring, anesthesia, and ultrasound products to meet the needs of low- to high-acuity surgical facilities.

Mint Medical Education
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Mint Medical Education offers a fresh approach to ultrasound education through hands-on ultrasound training courses, online continuing medical education activities, and online performance improvement training tools.

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MSKUS provides training in musculoskeletal ultrasound and hosts regional workshops that teach ultrasound-guided injections and diagnostic musculoskeletal ultrasound. MSKUS is also a provider of ultrasound training materials, books, and DVDs, providing custom training in musculoskeletal ultrasound for physicians at their primary practice.

Parker Laboratories, Inc
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Parker Laboratories, Inc, established in 1958, is a leading manufacturer of medical ultrasound and electromedical contact media, including gels, lotions, and pads. Parker’s products are recognized globally by health care professionals as standards of excellence and products of choice.

PCI Medical, Inc
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Website: http://pcimedical.com

GUS disinfection soak stations are the most financially responsible way to high-level disinfect your probes and to stay compliant with the Joint Commission and the Occupational Safety and Health Administration. GUS systems are compatible with hydrogen peroxide, glutaraldehyde, and o-phthalaldehyde. Now you can simplify the process with a fast 8-minute disinfection and disinfect above the probe handle. Stop by our booth for a demo. PCI also manufactures the new GUS disinfectant warmer, which warms the disinfectant to meet the minimum required temperature.

Philips Healthcare
Booth 501
3000 Minuteman Rd
Andover, MA 01810 USA
Phone: 978-659-2578
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As a global leader in health care technology, Philips Healthcare is dedicated to improving people’s lives through meaningful innovation. We are guided by the understanding that there is a patient connected to everything we do and that all over the world, patients and their clinicians are counting on us to deliver solutions across the continuum of care. Please join us at booth 501.

Samsung Electronics America, Inc
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As a leader in the digital revolution, Samsung Electronics has contributed by providing products that encompass innovative technologies, original designs, convenience, and customer values. By branching out into the medical equipment industry, Samsung Electronics aims to become a global leader as a health care company through joining together its image-processing, semiconductor, and communication technologies into medical devices. The Health and Medical Equipment Business now sells cutting-edge medical devices, including diagnostic ultrasound, digital x-ray, blood analyzers, and computed tomographic scanners, in more than 110 countries around the world.
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Siemens Medical Solutions is one of the largest suppliers of medical technologies in the world, offering complete solutions comprising medical devices, advanced information technologies, and services. Siemens Medical Solutions is known for bringing together innovative medical technologies, health care information systems, management consulting, and support services to help customers achieve tangible, sustainable, clinical, and financial outcomes. Founded more than 125 years ago, Siemens Medical Solutions brings together innovative medical devices, information technology, and services to help customers streamline work flow.

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Simbionix, a world leader in medical education solutions, has added the U/S Mentor to its full line of simulators. The U/S Mentor is an advanced medical simulator for the training of ultrasound-related examinations and interventions. This product expansion offers multidisciplinary, realistic, hands-on training for the ever-growing utilization of ultrasound in medicine at point-of-care and other settings. It provides medical students, residents, fellows, and practicing physicians an opportunity to acquire and improve their sonographic and diagnostic skills in a variety of fields, including echocardiography, emergency ultrasound, thoracic-abdominal ultrasound, transesophageal echocardiography, and, coming soon, obstetrics and gynecology. The U/S Mentor simulator is designed to provide the optimal educational environment to reach and demonstrate competency levels. It joins a full spectrum of high-quality, technically advanced products that were developed by an experienced research and development team in collaboration with global medical experts. Simulators in more than 60 countries are supported by our world-class customer support center, which is available 24/7 to provide the most responsive service available. To learn more about Simbionix and the new U/S Mentor, visit www.simbionix.com, or follow us on Facebook, Twitter, and LinkedIn. Contact us at infousa@simbionix.com, or call 866-746-2466 with any questions.

Society for Maternal-Fetal Medicine (SMFM)  
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The Society for Maternal-Fetal Medicine (SMFM) is a not-for-profit organization of more than 2000 members that are dedicated to improving perinatal care. The society’s primary objectives are to promote and expand education in maternal-fetal medicine and to encourage the exchange of new ideas and research concerning the most recent approaches and treatments for obstetric problems.

Society of Ultrasound in Medical Education (SUSME)  
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The Society of Ultrasound in Medical Education (SUSME) is a 501(C)(3) organization committed to promoting ultrasound in medical education. It is an academic society that will help guide the development of best practices in teaching and testing of medical students, residents, and other trainees in the field of clinical ultrasound. The mission of SUSME is to promote the use of ultrasound in medical education through development of educational experiences, research on outcomes, and distribution of results.

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SonoSim develops and markets state-of-the-art simulation training products for physicians, nurses, students, and care providers who need to continually expand and improve their ultrasound skills. The company comprises leading ultrasound educators, computer-based instructional designers, content editors, computer engineers and scientists, and software developers. The company has a foundation of intellectual property that has enabled creation of an easy-to-use, low-cost, and portable ultrasound education and training solution. The company’s products allow learners to take control of how, when, and where they learn. The products are designed to make learning easy, effective, convenient, and engaging.
Sonultra Corporation
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Sonultra Corporation’s patented technology can help grow and manage your practice. Solutions for mobile and satellite expansion, virtual access to reporting and imaging, picture archiving and communication systems, and hospital information system/radiology information system/electronic medical record integration continue to enhance the 20+ years of solutions we have provided to hospitals, private practices, and your colleagues. Come see our latest offerings.

SuperSonic Imagine
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E-mail: contactsUSA@supersonicimagine.com
Website: http://www.supersonicimagine.com
SuperSonic Imagine is an innovative imaging company that has developed a revolutionary ultrasound system: the Aixplorer. Aixplorer is the only system on the market with an UltraFast Imaging platform that ensures impeccable image quality and 2 breakthrough technologies: ShearWave Elastography (SWE) and UltraFast Doppler (UFD). SWE is the only technology cleared by the US Food and Drug Administration that measures shear wave velocity in real time. SWE displays local tissue elasticity on a color-coded map in kilopascals. UFD unites color flow imaging with pulsed wave Doppler. Three seconds of scanning renders high-quality flow information, ultrafast color frame rates without compromises, and complete spectral Doppler analysis.

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Telexy Healthcare has set new standards for streamlining point-of-care ultrasound work flow with Q-path and companion products. Q-path is the ideal tool to help you manage work flow for clinical and training ultrasound exams for any bedside ultrasound program in a central repository to store all your clinical and training exams. It is a simple process to document exam results, evaluate and grade exams, manage credentialing, submit billing reports, and track the status of your program. Transfer clinical images to picture archiving and communication systems and exam results to the electronic medical record (EMR). Telexy provides not only products but also the expertise to help you define your optimal ultrasound work flow. Whether you deploy Q-path on your local server or on Telexy’s advanced cloud servers, we help you achieve your work flow goals. With industry-leading innovations such as Q-view, you can complete your exam report on the ultrasound system or from the patient chart in your EMR. Imagine being able to order an ultrasound exam on your ultrasound system. Imagine no more. It is reality today using Q-path.

Terason Ultrasound
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Terason continues to revolutionize ultrasound with the latest developments in high-performance portable systems. Our uSmart products provide exceptional imaging capability and the advanced features and functionality you have come to expect from Terason. These complete ultrasound solutions optimize work flow, enhance clinical efficacy, and increase productivity for everyday clinical needs.
Exhibit Information

Texas Children’s Pavilion for Women/Baylor College of Medicine  
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Houston, TX 77031 USA
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Website: http://www.fetal.texaschildrens.org

Texas Children’s Pavilion for Women is home to the Texas Children’s Fetal Center, one of only a handful of facilities in the world to offer a full spectrum of maternal and fetal care. As one of the nation’s leaders in the diagnosis and treatment of abnormalities in unborn and newborn infants, Texas Children’s attracts parents from around the world seeking the ultimate in care for their unborn children. The physicians at Texas Children’s Pavilion for Women are recognized leaders in fetal medicine and fetal and neonatal surgery. Our comprehensive services include management of complex pregnancies, genetic counseling, and the full range of fetal diagnostic procedures. Texas Children’s Fetal Center also provides highly specialized fetal surgery for a number of congenital malformations. Texas Children’s Fetal Center is committed to providing the best possible care and outcome for each mother, baby, and family.

Trisonics, Inc  
Booth 318

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Trisonics, Inc, is your ultrasound imaging partner specializing in ultrasound service, support, parts, transducers, and systems. Our goal is to provide cost-effective solutions with an emphasis on personalized service. We at Trisonics view exceptional service and technical expertise as critical elements of our customers’ satisfaction.

Texas Fetal Center  
Booth 500

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The Texas Fetal Center at UTHealth Medical School and Children’s Memorial Hermann Hospital is a leader in the diagnosis, treatment, and comprehensive care of mothers with high-risk pregnancies and babies with congenital anomalies or genetic conditions. The internationally recognized team is the most experienced at providing comprehensive fetal diagnoses and interventions in the Southwest, and its members are world leaders in laser ablation for twin-twin transfusion syndrome and performed the first fetal spina bifida repair in the region.

UltraLinq Healthcare Solutions, Inc  
Booth 613

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UltraLinq Healthcare Solutions provides a secure cloud-based solution for the reliable reviewing, reporting, archiving, managing, sharing, and distribution of a multitude of medical imaging modalities. Breaking away from the constraints of closed-end, high-cost, local network picture archiving and communication systems, UltraLinq offers our clients a low-cost, secure, and flexible system that provides authorized users anytime, anywhere access to vital information. UltraLinq’s core strategy centers around access, usability, and value. The UltraLinq service integrates effortlessly into any existing work flow and optimizes efficiency, with a client base that includes medical practices, small hospitals, major medical centers, the federal government, and remote service providers.

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Ultra Solutions has the largest inventory of refurbished ultrasound equipment in the world. This may sound like a bold claim, as there are hundreds of companies that will sell you an ultrasound machine. But not a single one of our competitors has an inventory of more than 350 used ultrasound machines, 3000 transducers, and thousands of parts in stock from every manufacturer like we do. And if seeing is believing, come visit our 25,000-square-foot facility in Ontario, California. You won’t want to leave!
Exhibit Information

**UltrasoundJOBS.com**

Booth 521

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Phone: 866-964-2465
E-mail: ultrasoundjobs@nhcnnetwork.org
Website: http://www.ultrasoundjobs.com

UltrasoundJOBS.com is the only recruitment site exclusively devoted to ultrasound professionals, offering sonographers and vascular technologists a service that will enhance their professional development through the use of the latest cutting-edge technology. For more than 10 years, UltrasoundJOBS.com has partnered with the American Registry for Diagnostic Medical Sonography with the commitment to providing the recruiting tools needed when promoting quality care and patient safety through the certification and continuing competency of ultrasound professionals. For more information, please visit www.ultrasoundJOBS.com.

**Verasonics, Inc**

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Verasonics has developed revolutionary ultrasound system technology. This real-time software-based ultrasound system accelerates research and provides unsurpassed control, while simplifying the data collection and analysis process. Verasonics licenses its technology, sells research systems and software components and provides consulting services. Key areas of application support: optoacoustics, high-intensity focused ultrasound, high-frequency ultrasound, elastography, and a variety of standard imaging modes.

**ZONARE Medical Systems, Inc**

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