<table>
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<tr>
<th>Time</th>
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<tr>
<td>6:30 AM–4:00 PM</td>
<td>Registration Open</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>8:00 AM–9:30 AM</td>
<td>WFUMB Finance Committee Meeting</td>
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<td>8:15 AM–10:15 AM</td>
<td>Special Interest Sessions</td>
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<td>9:15 AM–10:15 AM</td>
<td>Hands-on Special Interest Session</td>
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<td>10:30 AM–11:30 AM</td>
<td>Three- and Four-Dimensional Volume Data Set Manipulation: Gynecology</td>
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<td>10:30 AM–11:30 AM</td>
<td>Three- and Four-Dimensional Volume Data Set Manipulation: Obstetrics</td>
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<td>10:45 AM–12:00 PM</td>
<td>Special Interest Session</td>
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<td>12:00 PM–1:00 PM</td>
<td>Scientific Sessions</td>
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<td>12:00 PM–1:00 PM</td>
<td>Film Panel Session</td>
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<td>12:15 PM–1:30 PM</td>
<td>AIUM Community Meeting</td>
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<td>1:00 PM–3:00 PM</td>
<td>Lunch in the Exhibit Hall</td>
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<td>1:00 PM–3:00 PM</td>
<td>AIUM Annual Convention Committee Meeting</td>
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<td>1:00 PM–3:00 PM</td>
<td>Special Interest Sessions</td>
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<td>1:00 PM–3:00 PM</td>
<td>Three- and Four-Dimensional Volume Data Set Manipulation: Obstetrics</td>
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<td>3:30 PM–5:30 PM</td>
<td>Hands-on Special Interest Session</td>
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<td>4:00 PM–5:00 PM</td>
<td>WFUMB New Administrative Council Meeting</td>
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<td>5:00 PM–6:00 PM</td>
<td>AIUM Executive Committee Meeting</td>
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<td>6:00 PM–7:00 PM</td>
<td>Refreshment Break in the Exhibit Hall</td>
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<td>6:00 PM–7:00 PM</td>
<td>AIUM Community Meetings</td>
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<td>6:30 PM–8:00 PM</td>
<td>Three- and Four-Dimensional Volume Data Set Manipulation: Fetal Echocardiography</td>
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<tr>
<td>7:00 PM–9:00 PM</td>
<td>Three- and Four-Dimensional Volume Data Set Manipulation: Obstetrics</td>
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<td>7:00 PM–9:00 PM</td>
<td>Special Interest Sessions</td>
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<td>7:00 PM–9:00 PM</td>
<td>Comprehensive Refresher Session</td>
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<td>7:00 PM–9:00 PM</td>
<td>Scientific Sessions</td>
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<td>7:00 PM–9:00 PM</td>
<td>AIUM Community Meetings</td>
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<td>7:00 PM–9:00 PM</td>
<td>AIUM Executive Committee and Liaisons Meeting</td>
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<td>7:00 PM–11:00 PM</td>
<td>AIUM Leadership Banquet (by invitation only)</td>
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7:00 AM–8:00 AM

Just Images and Comprehensive Refresher Sessions

Anatomic Lessons From Normal Fetal Cardiac Ultrasound (Basic)
Earn up to 1 AMA PRA Category 1 Credit™ (accepted by the ARDMS) or ARRT Category A Credit.

Southern Hemisphere I
Moderator: Lynn Simpson, MD, MSC

The objective of this session is to review the cardiovascular anatomy that should be assessed during routine assessment of the fetal heart.

7:00 AM–7:15 AM
Four-Chamber View
Tracy Anton, BS, RDMS, RDCS

7:15 AM–7:30 AM
Outflow Tracts
Lynn Simpson, MD, MSC

7:30 AM–7:45 AM
Three-Vessel View
Alfred Abuhamad, MD

7:45 AM–8:00 AM
Systemic and Pulmonary Venous System
Liat Gindes, MD

Clinical Applications of Contrast-Enhanced Ultrasound: Case-Based Approach
Earn up to 1 AMA PRA Category 1 Credit™ (accepted by the ARDMS) or ARRT Category A Credit.

Southern Hemisphere V
Moderator: Uliike Hamper, MD, MBA

The value of contrast-enhanced ultrasound as an everyday problem-solving tool, particularly for renal and liver masses, will be discussed.

7:00 AM–7:30 AM
Case Presentation
Giovanna Ferraioli, MD

7:30 AM–8:00 AM
Case Presentation
Michelle Robbin, MD, MS

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

Northern Hemisphere E 1-2
Moderator: Richard Barr, MD, PhD

This session will update the learner on the latest research and developments regarding compression strain and shear wave elastography.

7:00 AM–7:15 AM
WFUMB Guidelines
Masatoshi Kudo, MD, PhD

7:15 AM–7:30 AM
Auto Strain Ratio System
Kazutaka Nakashima, MD, PhD

7:30 AM–7:45 AM
Thyroid
Richard Barr, MD, PhD

7:45 AM–8:00 AM
Liver
Giovanna Ferraioli, MD

Three- and Four-Dimensional Ultrasound: Obstetric Applications
Earn up to 1 AMA PRA Category 1 Credit™ (accepted by the ARDMS) or ARRT Category A Credit.

Northern Hemisphere C
Moderator: Julia Solomon, MD, CM

On completion of this session, participants will be able to describe the principles of volume data set acquisition, understand the various modes of display and formatting of the data set, as well as appreciate the unique role of 3- and 4-dimensional ultrasound in the evaluation of fetal and extrafetal structures.

7:00 AM–7:20 AM
Methods and Modalities for Volume Imaging
Cheryl Vance, MA, RT, RDMS, RVT

7:20 AM–7:40 AM
Three-Dimensional Evaluation of the Fetus
Wesley Lee, MD

7:40 AM–8:00 AM
Four-Dimensional Echocardiography
Julia Solomon, MD, CM
Topics in Pediatric Gastrointestinal Sonography
Earn up to 1 AMA PRA Category 1 Credit™ (accepted by the ARDMS) or ARRT Category A Credit.

Southern Hemisphere II
Moderator: Rob Goodman, MB, BChir

This session will teach a pediatric gastrointestinal workshop (example: bowel obstruction).

7:00 AM–7:20 AM
Ultrasound of Appendicitis
Rob Goodman, MB, BChir

7:20 AM–7:40 AM
Ultrasound of Intussusception
Susan Back, MD

7:40 AM–8:00 AM
Ultrasound of the Neonatal Gastrointestinal Tract
Pallavi Sagar, MD

Ultrasound Evaluation of Acute Abdominal and Pelvic Pain
Earn up to 1 AMA PRA Category 1 Credit™ (accepted by the ARDMS) or ARRT Category A Credit.

Southern Hemisphere III
Moderator: Srikr Adhikari, MD, MS

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

7:00 AM–7:20 AM
Acute Pelvic Pain
Beryl Benacerraf, MD

7:20 AM–7:40 AM
Acute Abdominal Pain
Adrian Goudie, MD

7:40 AM–8:00 AM
Pediatric Abdominal Pain
Brian Coley, MD

8:00 AM–9:30 AM
WFUMB Committee Meeting

Special Interest Sessions

Advanced Fetal Echocardiographic Techniques
Earn up to 2 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

Northern Hemisphere C
Moderator: Helena Gardiner, MD, PhD

The objective of this session is to present an approach to advanced quantitative examination of the fetal heart when an abnormality of structure or function is suspected.

8:15 AM–8:50 AM
Z Score: What Does It Mean, and Where to Measure?
Helena Gardiner, MD, PhD

8:50 AM–9:25 AM
Cardiac Function Using Traditional Doppler Techniques
Boris Tutschek, MD

9:25 AM–9:55 AM
Advanced Mechanics Assessment: Strain and Beyond
Elena Sinkovskaya, MD, PhD, RDMS, RDCS

9:55 AM–10:15 AM
Panel Discussion

Clinical Applications of Ultrasound Contrast: Part 1
Earn up to 2 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

Southern Hemisphere V
Moderator: Ulrike Hamper, MD, MBA

In the United States, ultrasound contrast agents are approved only for cardiac use. This session will review the WFUMB guidelines and explain how we in the United States can incorporate contrast-enhanced ultrasound (CEUS) into daily practice. The value of CEUS as an everyday problem-solving tool, especially for liver and genitourinary imaging, will be discussed.

8:15 AM–8:35 AM
Update on the WFUMB Guidelines and Use of Contrast-Enhanced Ultrasound Lymphangiography for Sentinel Node Detection in Breast Cancer
David Cosgrove, MA, MSc, FRCP, FRCR

8:35 AM–8:55 AM
Update on the Status of Contrast-Enhanced Ultrasound in the United States: How to Integrate Contrast-Enhanced Ultrasound Into Clinical Practice
Richard Barr, MD, PhD
8:55 AM–9:15 AM
How to Integrate Contrast-Enhanced Ultrasound Into Clinical Practice: A Sonographer’s or Nurse’s Perspective
Cynthia Peterson, MPH, RT, RDMS, RVT

9:15 AM–9:35 AM
Contrast-Enhanced Ultrasound for Liver Imaging
Giovanna Ferrioli, MD

9:35 AM–9:55 AM
Contrast-Enhanced Ultrasound as a Rapid Bedside Problem in Acute Situations
Fabio Piscaglia, MD

9:55 AM–10:15 AM
Contrast-Enhanced Ultrasound for Genitourinary Imaging
Jean-Michel Correas, MD, PhD

Hands-on Scanning: Peripheral Nerves of the Upper Extremity
Earn up to 2 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.
Atlantic Hall A - First Level
Moderators: Kenneth Lee, MD, Humberto Rosas, MD

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

Hands-on Faculty: Nathalie Bureau, MD, FRCP(C); Joseph Craig, MB, ChB, Mary Chiavaras, MD, PhD, FRCP, Gandikota Girish, MBBS, FRCS, FRCR, RMRS, Jon Jacobson, MD, William Madford, RDMS, RMSK, Daniel Nissman, MD, MPH, MSEE, Courtney Scher, DO, Daniel Siegel, MD, Colin Strickland, MD, Alberto Simoncini, MD, Ximeña Wortsman, MD, Corrie Yablon, MD

Know When to Hold ‘Em: How to Avoid Complications During Interventional Procedures and How to Manage When You Get Them
Earn up to 2 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.
Northern Hemisphere II
Moderator: Hisham Tchelepi, MD

After attending this session, participants will be able to identify some common as well as uncommon complications during interventional procedures. They will also understand how to avoid possible complications and ways to manage them once the complications do occur.

8:15 AM–8:55 AM
Interventional Ultrasound: How to Avoid Complications
Nami Azar, MD

New Horizons in Critical Care: Part 1
Earn up to 2 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.
Southern Hemisphere I
Moderator: Elliott Dickman, MD, RDMS

Participants will learn about recent advancements in the use of sonography when caring for critically ill patients. Specifically, they will: (1) increase their knowledge of transesophageal echocardiography, which can be used to guide patient management; (2) understand the role of diastology in assessing patients with possible congestive heart failure; and (3) understand the role of transesophageal echocardiography in managing these patients.

8:15 AM–8:50 AM
The Role of Diastology
Andrew Taylor, MD

8:50 AM–9:25 AM
Update in Clinician-Performed Echocardiography
Jorge Rabat, MD

9:25 AM–10:15 AM
Transesophageal Echocardiography in the Intensive Care Unit
Scott Millington, MD

Nonfetal Obstetric Ultrasound
Earn up to 2 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.
Northern Hemisphere D–E
Moderator: Ana Monteagudo, MD, RDMS

The objective of this session is to discuss the sonographic evaluation of nonfetal obstetric structures.

8:15 AM–8:20 AM
Nonfetal Obstetric Ultrasound: Introduction
Ana Monteagudo, MD, RDMS

8:20 AM–8:50 AM
Sonographic Diagnosis and the Morbidly Adherent Placenta
Ana Monteagudo, MD, RDMS

8:50 AM–9:10 AM
Twin Molar Pregnancies: Sonographic Findings and Clinical Presentation
Margaret Dziadosz, MD
9:10 AM–9:30 AM
Beyond the Placenta: Amniotic Fluid, Umbilical Cord, and Cervix
Jonathan Rosner, MD

9:30 AM–10:00 AM
Is It Ovarian Cancer in Pregnancy? Decidualized Endometriomas and Low-Malignant Potential Tumors
Ilan Timor-Tritsch, MD

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

Quantitative Imaging Biomarker Development
Earn up to 2 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

Northern Hemisphere E 3-4
Moderators: Paul Carson, PhD, Mark Palmeri, MD, PhD

This session will cover recent advances in quantitative ultrasound, including measurements of blood flow and scattering. Clinical applications in the cervix, liver, prostate, and lymphatic system will be discussed.

8:15 AM–8:20 AM
Introduction
Brian Garra, MD

8:20 AM–8:40 AM
Digital and Tissue-Mimicking Phantom Studies to Achieve Platform-Independent Shear Wave Speed Measurements
Mark Palmeri, MD, PhD

8:40 AM–8:55 AM
Analysis of Human Studies of Sources of Variability in Shear Wave Speed Measurements of Hepatic Fibrosis and Draft Uniform Protocols in Clinical Trials Protocol
Manish Dhyani, MD

8:55 AM–9:05 AM
Discussion

9:05 AM–9:15 AM
Status of Quantitative Imaging Biomarkers Alliance (QIBA) and QIBA/AIUM Efforts on New Biomarkers
Paul Carson, PhD

9:15 AM–9:25 AM
Blood Pressure Measurements
Flemming Forsberg, PhD

9:25 AM–9:40 AM
Ultrasound Spatial Measurement: Evolving from 1D to 3D
Brian Garra, MD

9:40 AM–9:55 AM
Quantitative Contrast Imaging
J. Brian Fowlkes, PhD

9:55 AM–10:00 AM
Opinion on Potential Biomarker Targets
Andy Milkowski, MS

10:00 AM–10:10 AM
Discussion of the AIUM Perspective on Biomarkers
Keith Wear, PhD

Sonographic Evaluation of the Brachial Plexus and Related Problems: Making Sense of the Brachial Plexus
Earn up to 2 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

Southern Hemisphere III
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 brachialploplexopathy, in assessing thoracic outlet impingement, and in assessing infant glenoid dysplasia and shoulder subluxation.

8:15 AM–8:55 AM
Pediatric Brachial Plexus Sonography of Perinatal Brachialploplexopathy: Direct and Indirect Findings
Michael Di Pietro, MD

8:55 AM–9:35 AM
Brachial Plexus Sonography in Adults: Dynamic Evaluation of Thoracic Outlet Compression Symptoms
Levon Nazarian, MD

9:35 AM–10:15 AM
Sonographic Shoulder Evaluation of Infants With Brachial Plexus Birth Palsy
Andrew Zbojniewicz, MD

3-4D Three- and Four-Dimensional Volume Data Set Manipulation: Gynecology
Earn up to 2 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

Moderators: Wesley Lee, MD, Khaled Sakhel, MD

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

GE Healthcare Faculty: Todd Deutch, MD, Lauren Mack, RDMS, MPH
Europe 8

Philips Healthcare Faculty: William Brown III, MD, Elise Housman, BS, RDMS
Europe 7
Ultrasonido General (in Spanish)

El objetivo de este curso es hacer una revisión detallada de los temas en la ecografía hepática. Temas como lesiones hepáticas focales, difusa, hipertensión portal, intervención guiada por ecografía, elastografía se abordarán. Fue diseñado para atender a las audiencias latinas, y se impartirá en Español, los charlantes son de origen Latino, y fue organizado por FLAUS. Sin embargo se le solicite los speakers que las diapositivas están en Inglés/Español para que otros participantes que deseen tomar el curso también pueda seguir las clases sin dificultad.

8:15 AM–8:35 AM
Lesiones Hepáticas Focales Benignas
Tulio Macedo, MD

8:40 AM–9:00 AM
Lesiones Hepáticas Focales Malignas
M. Cristina Chammas, MD, PhD

9:05 AM–9:25 AM
Hipertensión Portal
Osmar Saito, MD

9:25 AM–9:45 AM
Ultrasonido en El Intervencion Hepatica
Jorge Rabat, MD

9:50 AM–10:10 AM
Elastografía de Tiroides
Leandro Fernandez, MD

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

Ultrasound in Global Health Lecture Series: Part 1

This session will discuss the following topics: Training Bachelor’s Degree Sonographers at a WFUMB Center of Excellence: Curriculum Design, Implementation, and Outcomes; Ultrasound in Tropical Infectious Diseases: A Curriculum; and Healthy Pregnancy: A Prenatal Care System in a Backpack to Reduce Maternal Mortality in Developing Countries.

8:15 AM–8:55 AM
Training Bachelor’s Degree Sonographers at a WFUMB Center of Excellence: Curriculum Design, Implementation and Outcomes
Michael Kawooya, MBChB, MMed (Rad), PhD

8:55 AM–9:35 AM
Ultrasound in Tropical Infectious Diseases: A Curriculum
Ted Kuhn, MD

9:35 AM–10:15 AM
Healthy Pregnancy: A Prenatal Care System in a Backpack to Reduce Maternal Mortality in Developing Countries
Patty Hanna Crispin Milart, MD

8:15 AM–10:15 AM
AIUM Community Meeting

Ultrasound in Medical Education

The Ultrasound in Medical Education Interest Group was developed in 2011 as the AIUM sought to coordinate ultrasound activities within the undergraduate medical education community. This group has developed task forces and a portal as part of the AIUM website to help centralize communication and information about ultrasound in medical student ultrasound education. This group welcomes all AIUM members with an interest in helping continue to shape the landscape of ultrasound in the medical school curriculum. Our group is looking to expand mentorship, coordinate resources, and ramp up the sonographic footprint of ultrasound in medical education. As more programs start to invest in this educational initiative, this group helps coordinate best practices to train the next generation of clinicians able to use ultrasound at the bedside.

10:15 AM–10:45 AM
Refreshment Break in the Exhibit Hall
Atlantic Hall B/C • First Level

10:15 AM–12:15 PM
AIUM Committee Meeting

Ultrasound Practice Accreditation Council

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: Margaret Carr, MD, Lauren Mack, RDMS, MPH

Europe 8
Special Interest Sessions

Quoi de neuf en échographie en 2015 (in French)
Earn up to 1.25 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

Southern Hemisphere IV
Moderators: Michael Claudon, MD, Hassen Gharbi, MD

Une excellente mise au point est présentée sur l’évolution de l’apport de l’échographie dans l’espace, la sénologie, l’obstétrique et la pédiatrie.

10:45 AM–10:50 AM
Introduction: Que doit faire la WFUMB pour la promotion de la bonne échographie?
Michel Claudon, MD

10:50 AM–11:10 AM
L’intérêt de l’échographie dans l’espace en 2015, passé présent et avenir
Philippe Arbeille, MD, PhD

11:10 AM–11:30 AM
L’échographie du sein en 2015: de la qualité de l’image à celle de l’interprétation
Bruno Fornage, MD

11:30 AM–11:38 AM
Échographie obstétricale-Quoi d’neuf en sûreté en 2015?
Jacques Abramowicz, MD

11:38 AM–11:46 AM
Les aspects récents de l’échographie rénale chez l’enfant et l’adulte
Michel Claudon, MD

11:46 AM–11:57 AM
Discussion
Jacques Abramowicz, MD

11:57 AM–12:00 PM
Conclusion
Hassen Gharbi, MD

Ultrasound in Undergraduate Medical Education: The Path Forward in Health Care. What Is the Role of Ultrasound in Undergraduate Medical Education?
Earn up to 1.25 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

Southern Hemisphere V
Moderators: David Bahner, MD, RDMS, John Pellerito, MD

By the end of this session, participants will be able to articulate the roles of traditional and nontraditional imaging specialists in the care of emergency and primary care patients and how they relate to curricular objectives in undergraduate medial education; summarize the major approaches (comprehensive, focused, aid to procedure, and aid to physical examination) to using ultrasound in the clinical setting and its applicability to teaching future medical students; and compare approaches and visions for future educational directions in promoting ultrasound in medical student curricula.

Panelists: J. Christian Fox, MD, RDMS, John Pellerito, MD, Richard Hoppmann, MD, Donald DiSalvo, MD, Michael Blaivas, MD, David Bahner, MD, RDMS, Michael Kawooya, MBChB, MMed (Rad), PhD

11:55 AM–12:00 PM
Questions and Answers

Film Panel Session

Spine-Tingling Cases: Pediatric Spine Cases That Educate, Amaze, and Amuse
Earn up to 1.25 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

Northern Hemisphere E 1-2
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.

10:45 AM–10:50 AM
Introduction
Michael Di Pietro, MD

10:50 AM–11:20 AM
Case Presentation
Harriet Paltiel, MD

11:20 AM–11:50 AM
Case Presentation
Maria Ladino-Torres, MD

11:50 AM–12:00 PM
Questions and Answers
10:45 AM–12:00 PM
Scientific Sessions

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

Breast Ultrasound

Earn up to 1.25 AMA PRA Category 1 Credits™ (accepted by the ARDSMS) or ARRT Category A Credits.

Southern Hemisphere I

Moderators: Yi-Hong Chou, MD, Gary Whitman, MD

10:45 AM–11:00 AM
Anchor Speaker: Gary Whitman, MD

11:00 AM–11:07 AM
2081562 Accuracy of Preoperative Tumor Size Assessment on Mammography, Ultrasound, and Magnetic Resonance Imaging: Is the Accuracy Affected by Breast Density or Tumor Type?
Rebecca Leddy,* Abd Irshad, Madeleine Lewis, Aille Metcalfe, Pranod Mahalan, Abid Abid, Susan Ackerman

11:07 AM–11:14 AM
2056779 Ultrasound Image Classification of Ductal Carcinoma In Situ (DCIS) of the Breast: Analysis of 705 DCIS Lesions—Japan Association of Breast and Thyroid Sonology BC-02 Study
Takanori Watanabe,* Takuhiro Yamaguchi, Etsuko Fukuma, Hiroko Tsunoda, Koichi Hirokaga, Kumiaki Tanaka, Ryuzo Sekiguchi, Ei Ueno, Hidemitsu Yasuda, Miki Yamaguchi, Toshikazu Okuno, Yoichi Ishibe, Etsuo Takada, Kanako Ban, Toshikazu Ito, Shuchit Nakatani, Masahiko Tsuruoka, Hiroko Kusuyama

11:14 AM–11:21 AM
2076072 Ductal Carcinoma In Situ (DCIS) Showing Hypoechoic Areas on the Breast Ultrasound: Analysis of 705 DCIS Lesions—Japan Association of Breast and Thyroid Sonology BC-02 Study
Ei Ueno,* Takanori Watanabe, Takeshi Umemoto, Takuhiro Yamaguchi, Hiroko Kusuyama, Yasuhisa Fujimoto, Jun Ro, Noriko Obane

11:21 AM–11:28 AM
2086445 Ultrasonographic Findings of Ductal Carcinoma In Situ of the Breast Presenting as a Solid Mass
Kumiko Tanaka,* Takanori Watanabe, Hiroko Tsunoda, Setsuko Kaoku, Eriko Tohno, Kazuika Nakashima, Kiyoka Omoto, Hiroko Kusuyama, Takuhiro Yamaguchi

11:28 AM–11:35 AM
2082566 Characteristics of Ultrasonographic Breast Images of Ductal Carcinoma In Situ With Abnormalities of the Ducts: Japan Association of Breast and Thyroid Sonology BC-02 Study Report
Kanako Ban,* Hiroko Tsunoda, Ryoji Watanabe, Moriko Hiroshi, Hiroko Kusuyama, Tsuyoshi Shinai, Takuhiro Yamaguchi

11:35 AM–11:42 AM
2068650 Ultrasonographic Features of Ductal Carcinoma In Situ With a Mixed-Pattern Tumor of the Breast
Koichi Hirokaga,* Takanori Watanabe, Takuhiro Yamaguchi, Etsuko Fukuma, Hiroko Tsunoda, Kumiaki Tanaka, Eriko Tohno, Ryoji Watanabe, Isamu Morishima, Ayumi Izumori, Hideaki Shirai, Hiroko Kusuyama

11:42 AM–11:49 AM
2082081 Evaluation of Virtual Touch Imaging Quantification Shear Wave Velocity for Solid Breast Masses
Takanori Watanabe,* Makoto Okano

11:49 AM–11:56 AM
2091149 Stereoscopic Images of Breast Tumors by 3-Dimensional Real-time Tissue Elastography
Etsuo Takada,* Sachiko Konno

Fetal Echocardiography

Earn up to 1.25 AMA PRA Category 1 Credits™ (accepted by the ARDSMS) or ARRT Category A Credits.

Southern Hemisphere II

Moderators: Reem Abu-Rustum, MD, Simcha Yagel, MD

10:45 AM–11:20 AM
Anchor Speaker: Simcha Yagel, MD

11:20 AM–11:27 AM
2076927 Is the Brain-Sparing Effect Described in Fetuses With Congenital Heart Disease Evident in the First Trimester?
Reem Abu-Rustum,* M. Fouda Zade, Assaad Kesrouani, Sameer Abu-Rustum, Linda Dao

11:27 AM–11:33 AM
2082399 Fetal Myocardial Performance Index During Progression of Labor
Alexis Gimovsky,* Brianne Whitney, Dennis Wood, Stuart Weiner

11:33 AM–11:40 AM
2087673 Fetal Cardiac Function in Pregnanacies Complicated by Preterm Birth
Mert Bahliyaz,* Irina Buhimschi, Sarah Cross, Joshua Copen, Catalin Buhimschi
New Investigator Award Session 2
Earn up to 1.25 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

Americas Seminar Room
Moderators: Phyllis Glanc, MDCM, BSC, FRCPC, Chandra Sehgal, PhD

10:45 AM–10:55 AM
2089861 Numerical Modeling of the Dynamic of Ultrasound Contrast Agents in the Vascular Network
Laure Boyer,* Stephen Thomas, Ingrid Leguerney, Nathalie Lassau, Stephanie Pitre-Champagnat

10:55 AM–11:05 AM
2075085 Role of Age in the Negative Chronotropic Effect of Rat Hearts Exposed to Ultrasonic Pulses
Olivia Coiado,* William O’Brien Jr

11:05 AM–11:15 AM
2050797 The Effect of a Simulation Training Package on Skill Acquisition for Duplex Arterial Stenosis Detection
Pasha Normahani,* Usman Jaffer, Prashant Singh, Mohammed Aslam, Nigel Standfield

11:15 AM–11:25 AM
2066135 Three-Dimensional Localization of Specular Reflections Using Volumetric Ultrasound
Raja Sekhar Bandaru,* Anders Sørnes, Jan D’Hooge, Eigil Samset

11:25 AM–11:35 AM
2074055 Collapse Threshold Evaluation of Fluorescein Isothiocyanate Nanoparticles Loaded on Albumin-Coated Microbubbles
Marianne Gauthier,* Jamie Kelly, William O’Brien Jr

11:35 AM–11:45 AM
2076859 Effect of Microbubble-Enhanced Ultrasound on Percutaneous Ethanol Ablation of Rat Walker 256 Tumors
Wenhong Gao, Li Zhang, Lu Qiao, Dong Zhang, Juan Tu, Zheng Liu,* Feng Xie
Pediatric Ultrasound

Earn up to 1.25 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

Moderators: Annamaria Deganello, MD, Michael Riccabona, MD

10:45 AM–11:00 AM
Anchor Speaker: Annamaria Deganello, MD

11:00 AM–11:07 AM
Can Uterine Shape and Size Predict Expected Volumes in Ovarian Torsion? A Pilot Study
Anand Majmudar, * Harris L. Cohen

11:07 AM–11:14 AM
The Effect of Bedside Ultrasound Assistance on the Proportion of Successful Infant Lumbar Punctures in a Pediatric Emergency Department: A Randomized Controlled Trial
Jeffrey Neal, * Aaron Chen

11:14 AM–11:21 AM
Feasibility of Superb Microvascular Imaging, an Advanced Noninvasive Ultrasound Technique, to Detect Vesicoureteral Reflux in Pediatric Patients Without Bladder Catheterization or Contrast Use
Sara O’Hara, * Hee Kyung Yim, Bokyung Je, Janet Adams, Steven Kraus

11:21 AM–11:28 AM
Overly Bright Echo Sign for Hypertrophic Pyloric Stenosis (HPS); Gastric Pneumatosis and Portal Venous Gas in Infants—The Combination Suggests HPS
Ina Radtke, * George Young, Thomas Boulden, Clint Teague, Jeffrey Scrugham, Harris L. Cohen

Therapeutic Ultrasound

Earn up to 1.25 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

Moderators: Eleanor Stride, MD, Keith Wear, PhD

10:45 AM–10:52 AM
Ultrasound-Microbubble Radiosensitization Followed by Antivascular Maintenance Therapy as a Novel Radiation-Based Tumor Vascular Strategy
Ahmed El Kaffas, Anjola Giles, Gregory Czarnota*

10:52 AM–10:59 AM
Ultrasound-Enhanced Drug Delivery for Treatment of Parasitic Diseases in the Eye
Abel Rodriguez, Marjan Nabili, Sankara Mahesh, Craig Geist, Vesna Zderic*

10:59 AM–11:06 AM
Ultrasound-Enhanced Delivery of Anti-inflammatory Ophthalmic Drugs
Marjan Nabili, Sankara Mahesh, Craig Geist, Vesna Zderic*

11:06 AM–11:13 AM
Coincident Light/Ultrasound Therapy to Treat Bacterial Biofilms
Mark Schafer, * Tessie McNeely

11:13 AM–11:20 AM
Cellular Dynamics in Microbubble-Mediated Sonocorporation: Membrane Blebbing During Recovery
Ruen Leow, Jennifer Wan, Alfred Yu*

11:20 AM–11:27 AM
Accuracy and Safety of Ultrasound Fusion Versus Computed Tomographically Guided Abdominal Interventions
Yasmine Ahmed, * Salim Abboud, Dean Nakamoto, Nnadi Azar
**11:27 AM–11:34 AM**

**2090472**  
Predictive Value of Left Ventricular Microbubble Echogenicity for Treatment Outcome During Myocardial Cavitation-Enabled Therapy  
Douglas Miller,* Chunyan Dou, Yiying Zhu, Xiaofang Lu, Gabe Owens, Oliver Kripfgans

**11:34 AM–11:41 AM**

**2089268**  
Ultrasound Stimulation of Insulin Release From Pancreatic Beta Cells  
Ivan Suarez Castellanos, Aleksandar Jeremic, Vesna Zderic*

**11:41 AM–11:48 AM**

**2070151**  
Twenty-Kilohertz Ultrasound-Assisted Treatment of Chronic Wounds With Concurrent Optic Monitoring: A Human Study  
Peter Lewin,* Christopher Bawiec, Youhan Sunny, Michael Weingarten, Joshua Samuels, Leonid Zubkov, David Margolis, Michael Neidrauer

**11:48 AM–11:55 AM**

**2063713**  
Antenatal Cell-Based Therapy via Ultrasound-Guided Celocentesis: Effect on Maternal Long-term Fertility  
Joaquin Santolaya-Forgas,* Isabel Galan, Jacobo Santolaya, Roman Wolf

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**10:45 AM–12:00 PM**

**AIUM Community Meeting**

**Gynecologic Ultrasound**  
Earn up to 1.25 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.  
**Europe 6**  
**Moderators:** Misty Blanchette Porter, MD, James Shwayder, MD, JD, Rochelle Andreotti, MD

The Gynecologic Ultrasound Community invites all interested individuals to attend its annual meeting. Participants will have the opportunity to provide feedback on courses offered this year, suggest topics for the upcoming year, meet the community’s officers, and suggest speakers for upcoming meetings.

**12:00 PM–1:00 PM**

**Lunch in the Exhibit Hall**  
Atlantic Hall B/C • First Level

**12:15 PM–1:30 PM**

**AIUM Committee Meeting**

**Annual Convention Committee**  
**Europe 1**

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**1:00 PM–3:00 PM**

**Special Interest Sessions**

**3-4D Three- and Four-Dimensional Volume Data Set Manipulation: Obstetrics**

Earn up to 2 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.  
**Moderators:** Wesley Lee, MD, Khaled Sakhel, MD

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

**GE Healthcare Faculty:** Sharon Abuhamad, RDMS, Julia Solomon, MD, CM  
**Europe 8**

**Philips Healthcare Faculty:** Jimmy Espinoza, MD  
**Europe 7**

**Advanced Liver and Renal Doppler Ultrasound: Part 2**

Earn up to 2 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.  
**Southern Hemisphere 1**  
**Moderator:** Leslie Scoult, MD

This session will cover the following topics: portal hypertension; duplex and color Doppler of portal vein thrombosis; renovascular hypertension, pseudoaneurysms, and arteriovenous fistulas; and renal and liver transplants: a vascular surgeon’s perspective.

**1:00 PM–1:25 PM**

**Portal Hypertension**  
Leslie Scoult, MD

**1:25 PM–1:50 PM**

**Duplex and Color Doppler of Portal Vein Thrombosis**  
Fabio Piscaglia, MD

**1:50 PM–2:15 PM**

**Renovascular Hypertension, Pseudoaneurysms, and Arteriovenous Fistulas**  
Ulrike Hamper, MD, MBA

**2:15 PM–2:40 PM**

**Renal and Liver Transplants: A Vascular Surgeon’s Perspective**  
Robert Atnip, MD

**2:40 PM–3:00 PM**

**Questions and Answers**
**Clinical Applications of Ultrasound Contrast: Part 2**
Earn up to 2 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

**Northern Hemisphere E 1-2**
**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 CEUS for renal transplant imaging, inflammatory bowel disease, and applications in gynecology, the intensive care unit, and emergencies, as well as cancer treatment responses.

1:00 PM–1:25 PM  
Contrast-Enhanced Ultrasound Imaging of Renal Transplants  
*Paul Sidhu, MD*

1:25 PM–1:45 PM  
Contrast Enhanced Ultrasound Imaging in Gynecology  
*Nitin Chaubal, MD, DMRD, FICR*

1:45 PM–2:10 PM  
Contrast-Enhanced Ultrasound for Inflammatory Bowel Disease Imaging  
*Stephanie Wilson, MD*

2:10 PM–2:35 PM  
Contributions of Contrast-Enhanced Ultrasound Imaging in the Intensive Care Unit and Emergencies  
*Jean Ayoub, MD, PhD*

2:35 PM–3:00 PM  
Contrast-Enhanced Ultrasound Imaging of Cancer Treatment Responses  
*Nathalie Lassau, MD, PhD*

**Comprehensive Hemodialysis Grafts**
Earn up to 2 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

**Northern Hemisphere E 3-4**
**Moderator: Leslie Scoutt, MD**

The objectives of this session are to: (1) describe appropriate preoperative vascular evaluation of patients requiring hemodialysis access procedures; (2) review the protocol, techniques, and diagnostic criteria for evaluating the function of hemodialysis grafts and fistulas; and (3) discuss the technique of intraoperative vascular access for arterial procedures and central venous catheters.

1:00 PM–1:40 PM  
Mapping and Anatomy  
*George Berdejo, BA, RVT*

1:40 PM–2:20 PM  
Imaging of Complications  
*Mark Lockhart, MD, MPH*

2:20 PM–3:00 PM  
Endovascular Salvage of the Failing Hemodialysis Fistula  
*Roy Fujitani, MD, RVT*

**Fetal Arrhythmias (Basic and Advanced)**
Earn up to 2 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

**Northern Hemisphere C**
**Moderator: Mark Sklansky, MD**

The objectives of this session are to review methods for assessment of common fetal arrhythmias as well as to provide an advanced basis for definitive diagnosis and treatment.

1:00 PM–1:25 PM  
Basic Evaluation Techniques  
*Mark Sklansky, MD*

1:25 PM–1:30 PM  
Questions and Answers

1:30 PM–1:55 PM  
Benign Arrhythmia  
*Sarah Chambers, MD*

1:55 PM–2:00 PM  
Questions and Answers

2:00 PM–2:25 PM  
Bradyarrhythmia and Heart Block: What Everyone Needs to Know  
*Anita Moon-Grady, MD, FAAP, FACC, FASE*

2:25 PM–2:30 PM  
Questions and Answers

2:30 PM–2:55 PM  
Tachyarrhythmia  
*Helena Gardiner, MD, PhD*

2:55 PM–3:00 PM  
Questions and Answers

**Hands-on Carotid and Transcranial Doppler Ultrasound Techniques**
Earn up to 2 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

**Atlantic Hall A ∙ First Level**
**Moderator: Tatjana Rundek, MD, PhD**

This session is designed to describe the techniques for extracranial and intracranial vessels.

Hands-on Faculty: Andrei Alexandrov, MD, RVT, Eva Bartels, MD, PhD, John Blebea, MD, MBA, Nelly Campos, MD, RVT, Digna Cabral, BS, CCRP, RVT, Stephanie Coquia, MD, Joshua Cruz, RDMS, RVT, Salvatore LaRusso, MED, RDMS, RT(R), Margarita Revzin, MD, MS, Tatjana Rundek, MD, PhD, Leslie Scoutt, MD, Susan Smith, REMS, RDCS, RVT
New Applications of Ultrasound in Emergency and Critical Care Medicine
Earn up to 2 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.
Southern Hemisphere V
Moderators: Oliver Kripigans, PhD, Philip Levy, MD

The goal of this session is to bridge the gap between the technology and clinical applications of ultrasound in the emergency room and critical care settings. As the use of ultrasound increases, the technology and science must move hand in hand with its clinical application. The evolution of ultrasound is changing the landscape of ultrasound applications in the emergent and critical care settings and greatly expanding the diagnostic and therapeutic potential of ultrasound in adults and children. This session will discuss a new range of applications that ultrasound has in clinical practice, the specific challenges posed, and solutions to the increasing demands for ultrasound with the objective of translating this growing relationship between the quantitative physical properties of ultrasound and its clinical applications to patient care in critical care and emergency medicine.

1:00 PM–1:10 PM
Perspectives on New Applications of Ultrasound in the Emergency and Critical Care Setting: How to Build the Ideal “Ultrasound Team” to Support Your Clinical and Research Endeavors
Philip Levy, MD

1:10 PM–1:30 PM
Use of Ultrasound Elastography in Critical Care Medicine
Romolo Gaspari, MD, PhD, RDMS

1:30 PM–1:50 PM
The Developing Role of Contrast Ultrasound in the Emergency Setting
Jason Castle, MS

1:50 PM–2:10 PM
Ultrasound of the Stomach
Odd Helge Glifja, MD, PhD

2:10 PM–2:30 PM
High-Frequency Transducers for Point-of-Care Ultrasound Applications: What Is the Optimal Frequency Range?
Sriram Adhikari, MD, MS

2:30 PM–2:50 PM
Decision-Based Imaging Technologies
Glen McLaughlin, PhD

2:50 PM–3:00 PM
Panel Discussion

New Horizons in Critical Care: Part 2
Earn up to 2 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.
Southern Hemisphere II
Moderator: Eitan Dickman, MD, RDMS

Participants will learn about recent advancements in the use of sonography when caring for critically ill patients. Specifically, they will: (1) explore possible roles of contrast-enhanced sonography in critically injured patients; (2) learn how to perform ultrasound-guided nerve blocks; and (3) understand the utility of sonography for confirmation of endotracheal tube placement.

1:00 PM–1:35 PM
Contrast-Enhanced Ultrasonography in Trauma
Harriet Palliel, MD

1:35 PM–2:10 PM
Ultrasound-Guided Nerve Blocks in Critically Ill Patients
Arun Nagdev, MD

2:10 PM–2:45 PM
Airway Ultrasound
Mark Tessaro, MD

New Ultrasound Applications in Soft Tissue Lesions: From Skin to Muscle
Earn up to 2 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.
Southern Hemisphere III
Moderator: Levon Nazarian, MD

On completion of this session, participants will know when and how to use musculoskeletal ultrasound applications when evaluating the skin, muscles, lumps, and bumps.

1:00 PM–1:40 PM
New and Common Applications of Dermatologic Ultrasound
Ximena Wortsman, MD

1:40 PM–2:20 PM
Ultrasound of Muscle Injuries and Common Pathology
Ximena Wortsman, MD

2:20 PM–3:00 PM
Diagnostic Dilemma: Soft Tissue Hematoma Versus Sarcoma
Jason Wagner, MD
Temas y Controversias en el Ultrasonido Obstétrico (in Spanish)
Earn up to 2 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.
Americas Seminar Room
Moderator: Luis Izquierdo, MD, MBA, CPE

Durante este periodo de dos horas presentaremos un conjunto de controversias y problemas obstétricos y su relación al ultrasonido. Le presentaremos a la audiencia la aplicación de las ondas de sonido a la fisiopatología fetal.

1:00 PM–1:05 PM
Introducción
Luis Izquierdo, MD, MBA, CPE

1:05 PM–1:25 PM
Diagnóstico de los Desórdenes de Implantación de la Placenta
Ana Monteagudo, MD, RDMS

1:25 PM–1:45 PM
¿Qué hay de Nuevo en la Insuficiencia Cervical?
Edwin Guzman, MD

1:45 PM–2:05 PM
Transfusión Feto Fetal
Ruben Quintero, MD

2:05 PM–2:20 PM
Correlación Clínica entre el Ultrasonido Prenatal y la Resonancia Magnética, Solo Imágenes
Hernan Muñoz, MD

2:20 PM–2:40 PM
Embrionografía Normal del Primer Trimester
Ramon Bataglia Araujo, MD

2:40 PM–2:55 PM
Hernia Diaphragmática Congénita
Ruben Quintero, MD

2:40 PM–2:55 PM
Preguntas y Respuestas

Committee Meetings

1:00 PM–5:00 PM
WFUMB New Administrative Council
Europe 3

2:00 PM–4:00 PM
AIUM Executive Committee
Europe 2

3:00 PM–3:45 PM
Refreshment Break in the Exhibit Hall
Atlantic Hall B/C • First Level

3:00 PM–3:45 PM
AIUM Community Meetings

Contrast-Enhanced Ultrasound
Earn up to 0.75 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.
Northern Hemisphere E 1-2
Moderators: Ulrike Hamper, MD, MBA, Arthur C. Fleischer, MD, Andrej Lyshchik, MD, PhD

At the Contrast-Enhanced Ultrasound Community meeting, we will review and evaluate this year’s contrast-enhanced ultrasound sessions and ask for feedback from attendees 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.
Interventional-Intraoperative Ultrasound
Earn up to 0.75 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

Europe 6
Moderators: Shweta Bhatt, MD, Corinne Deurduian, MD, Joaquin Santolaya-Forgacs, MD, PhD

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 2016 Annual Convention and future AIUM publications and webinars.

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

Northern Hemisphere C
Moderators: Christine Bird, BS, RDMS, RVT, Kathleen Cross, RDMS, RT(R)(M)(CT), Anju Tomar, BS, RDMS, RVT

Did you know that there are approximately 2500 sonographer members of the AIUM and that this constitutes 26% of the AIUM membership? You are cordially encouraged to join us at the Sonography Community meeting. We will be planning courses for next year’s convention and desire input from as many of you as possible—sonographers and others alike. If you have a conflict at the time of our meeting, please pass your wishes and ideas along to anyone attending or to the Sonography Community leadership or e-mail communities@aium.org.

3:30 PM–5:30 PM
Special Interest Session

3-D and Four-Dimensional Volume Data Set Manipulation: Fetal Echocardiography
Earn up to 2 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

Moderators: Wesley Lee, MD, Khaled Sakhel, MD

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

GE Healthcare Faculty: Gregory DeVore, MD

Europe 8

Philips Healthcare Faculty: Leeber Cohen, MD

Europe 7

3:45 PM–5:30 PM
Special Interest Sessions

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

Northern Hemisphere C
Moderator: Khaled Sakhel, MD

This session will cover the following topics: (1) abnormal uterine bleeding—the evolving role of ultrasound; (2) adenomyosis, uterine fibroids, and sarcoma; and (3) endometrial carcinoma—grade, stage, and extent of myometrial invasion.

3:45 PM–4:20 PM
Abnormal Uterine Bleeding: the Evolving Role of Ultrasound

Misty Blanchette Porter, MD

4:20 PM–4:55 PM
Adenomyosis, Uterine Fibroids, and Sarcoma

Khaled Sakhel, MD

4:55 PM–5:30 PM
Endometrial Carcinoma: Grade, Stage, and Extent of Myometrial Invasion

Dirk Timmerman, MD, PhD

All You Need to Know About Dextro-Transposition of the Great Arteries, Tetralogy of Fallot, and Atrioventricular Septal Defects (Basic)
Earn up to 1.75 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.

Northern Hemisphere D-E
Moderators: Wesley Lee, MD, Slimcha Yagel, MD

This session will provide a comprehensive review of 3 common lesions of fetuses/newborns and how/why to detect them prenatally.

3:45 PM–4:00 PM
Embryology, Anatomy, Pathology of TGA

Norman Silverman, MD, DSc

4:00 PM–4:15 PM
D-Transposition of the Great Arteries: Prenatal Diagnosis to Postnatal Care

Gary Satou, MD

4:15 PM–4:30 PM
Embryology, Anatomy, Pathology of AVSD

Norman Silverman, MD, DSc

4:30 PM–4:45 PM
Fetal AV Septal Defects: Imaging Pearls and Clinical Implications From a Pediatric Cardiology Perspective

Miwa Geiger, MD
3:45 PM – 5:00 PM
Science Sessions

Scientific Sessions

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

* indicates presenter.

Cardiovascular Ultrasound

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

Southern Hemisphere III

Moderators: Cheng-Wen Chiang, MD, RDCS, Joseph Polak, MD, MPH

3:45 PM – 4:00 PM
Anchor Speaker: David Evans, PhD, DSc

4:00 PM – 4:07 PM
2090238 The Effects of Heart Failure on the Common Carotid Artery Doppler Waveform
Joseph Polak, * Jean Alessi-Chinetti, James Estes, Ayan Patel

4:07 PM – 4:14 PM
2090431 Edge-Detected Common Carotid Artery Intima-Media Thickness and Incident Coronary Heart Disease in the Multiethnic Study of Atherosclerosis
Joseph Polak, * Daniel O’Leary

4:14 PM – 4:21 PM
2086303 High-Frame Rate Ultrasound Can Dynamically Visualize Fast-Changing Vector Flow Fields in the Carotid Bifurcation
Billy Yiu, Alfred Yu*

4:21 PM – 4:28 PM
2083496 Four Different Real-time Image Registration Techniques in Temporal Intravascular Ultrasound Videos: Importance in Cardiovascular Interventional Ultrasound Procedures
Jasjit Suri, * Tadashi Araki, Nobutaka Ikeda, Nilanjan Dey, Sayan Chakraborty, Luca Saba, John Laird, Andrew Nicolaides

4:28 PM – 4:35 PM
2083449 Angiographic Coronary Syntax Score and Atherosclerotic Bulb Plaque in Carotid Ultrasound: A Strong Correlation in Diabetic Patients
Jasjit Suri, * Nobutaka Ikeda, Ajay Gupta, Shoab Shafique, Nilanjan Dey, Soumyo Bose, Elisa Cuadrado-Godia, Tadashi Araki, Luca Saba, John Laird, Andrew Nicolaides

4:35 PM – 4:42 PM
2090297 Effect of Aortic Stenosis on the Common Carotid Artery Doppler Waveform
Jean Alessi-Chinetti, Joseph Polak, * Ayan Patel, James Estes

TUESDAY
<table>
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<th>Time</th>
<th>Presentation</th>
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| 4:42 PM – 4:49 PM | Carotid Arterial Stiffness in Patients With Pulmonary Hypertension Assessed With a Radiofrequency Ultrasound Technique  
Ying Hou, Li-Jun Yuan,* Chang-Yang Xing, Fu-Jun Shang, Yun-You Duan |
Jasjit Suri,* Nobutaka Ikeda, Ajay Gupta, Soumyo Bose, Suvojit Acharjee, Luca Saba, Elisa Quadrato-Godía, Nilanjan Dey, John Laird, Andrew Nicolaides |
| 4:56 PM – 5:03 PM | Common Carotid Artery Doppler Waveform Measurements and the Prediction of the Left Ventricular Ejection Fraction  
Joseph Polak,* Jean Alessi-Chinetti, James Estes, Ayan Patel |
| 5:03 PM – 5:10 PM | Audit of Factors Affecting Duplex Peak Systolic Velocity Measurement in a Multisite Vascular Service  
Pasha Normahani,* Usman Jaffer, Mohammed Aslam, Nigel Standfield |
| 5:10 PM – 5:17 PM | The Clinical Significance of Deep Vein Thrombosis Within the Calf Veins  
Refky Nicola,* Shirley Chan, Anthony Almudevar, Vikram Dogra |
Stephen Pinter, Jennifer Jachowski, Jonathan Rubin, J. Brian Fowlkes, John Younger, Oliver Kripfgans* |

**Contrast-Enhanced Ultrasound: Part 1**

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

**Southern Hemisphere IV**

Moderators: Arthur C. Fleischer, MD, Ulrike Hamper, MD, MBA, Andrej Lyschik, MD, PhD

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<th>Time</th>
<th>Presentation</th>
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<tbody>
<tr>
<td>3:45 PM – 4:00 PM</td>
<td>Anchor Speaker: Nico De Jong, PhD</td>
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| 4:00 PM – 4:07 PM | Contrast-Enhanced Ultrasound Versus Computed Tomography in the Follow-up of Abdominal Trauma in a Pediatric and Young Adult Population: How the Desire for Radiation Reduction Affects Common Clinical Practice  
Annamarie Deganello,* Eleni Konstantatou, Odysseos Romanos, Maria Sellars, Paul Sidhu |
| 4:07 PM – 4:14 PM | Contrast-Enhanced Ultrasonography in the Diagnosis of Acute Mesenteric Ischemia  
Masaharu Odo,* Katsui Yanagi, Hitoshi Tsubouchi, Shigeru Katakuchi, Kenichiro Uraguchi |
| 4:14 PM – 4:21 PM | Parametric Volumes for Visualizing Breast Lesion Vascularity Using 3-Dimensional Subharmonic Imaging  
Anush Sridharan,* John Eisenbrey, Maria Stanczak, Priscilla Machado, Haydee Ojeda-Fournier, Robert Mattrey, Annina Wilkes, Alexander Sevrukov, Kirk Wallace, Carl Chalek, Kai Thomenius, Flemming Forsberg |
| 4:21 PM – 4:28 PM | Renal Transplants: Early Postsurgical Contrast-Enhanced Ultrasound in the Detection of Rejection and in Predicting Subsequent Kidney Function  
Ben Stenberg,* Andrew McNeill |
| 4:28 PM – 4:35 PM | Comparing Quantitative Immunohistochemical Markers of Angiogenesis to Subharmonic Contrast Imaging  
Aditi Gupta, Mark Forsberg, Kelly Dulin, Samantha Jaffe, Jaydev Dave, Valgerdur Hallardottir, Andrew Marshall, Anya Forsberg,* Priscilla Machado, Traci Fox, Ji-Bin Liu, Flemming Forsberg |
| 4:35 PM – 4:42 PM | Contrast-Enhanced Ultrasound Detects Infected Fracture Nonunions  
Christian Fischer,* Marc-André Weber, Eva Preuss |
| 4:42 PM – 4:49 PM | Contrast-Enhanced Ultrasound Versus Renal Diethylene-Triamine Pentaacetic Acid Scanning in the Detection of Perfusion Defects in Early Renal Transplants: Preliminary Findings  
Ben Stenberg,* Andrew McNeill |
| 4:49 PM – 4:56 PM | Relationship Between the Effect of Neoadjuvant Chemotherapy in Breast Cancer Patients and Changes in the Time to Peak Using Contrast-Enhanced Ultrasound  
Shinsaku Kanazawa,* Yukio Mitsuzuka, Fumi Saito, Tadatoshi Osaku, Yorichika Kubota, Toshihide Ito, Shunsuke Magoshi, Akemi Kataoka, Hideaki Ogata |
5:10 PM–5:17 PM
2090329  Subharmonic Pressure Estimation in Breast Tumors: An In Vivo Calibration Study
Valgerdur Halldorsdottir, Andrew Marshall, Jaydev Dave, Anya Forsberg, Priscilla Machado, Traci Fox, Ji-Bin Liu, Flemming Forsberg

5:17 PM–5:24 PM
2090635  Massive Hematia of Unknown Origin: Emergency Assessment With Contrast-Enhanced Sonography
Orlando Catalano,* Roberto Farina, Antonio Nunziata, Luigia Romano, Antonella Petrillo

Elastography
Earn up to 1.75 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.
Northern Hemisphere E 1-2
Moderator: Kevin Parker, PhD

3:45 PM–4:00 PM
Anchor Speaker: Kevin Parker, PhD

4:00 PM–4:10 PM
2092322  Three-Dimensional Acoustic Radiation Force Impulse Imaging of Prostate Cancer: Correlation With Whole-Mount Histopathology and Volumetric Comparison to Magnetic Resonance Imaging
Mark Palmeri, Tyler Glass, Zachary Miller, Stephen Rosenzweig, Andrew Buck, John Madden, Melissa Mendez, Thomas Polasek, Kathryn Nightingale

4:10 PM–4:20 PM
2090363  Quantifying the Impact of Elevated Acoustic Output on Shear Wave Imaging
Yufeng Deng,* Mark Palmeri, Ned Rouze, Stephen Rosenzweig, Manal Abdelmalek, Kathryn Nightingale

4:20 PM–4:30 PM
2084603  Distinguishing Viscous From Elastic Properties in Viscoelastic Response Ultrasound
Mallory Selzo, Caterina Gallippi

5:00 PM–5:10 PM
2084420  Real-time Elastography in Inflammatory Skin Diseases: A Primer
Fernando Alfageme,* Eugenio Cerezo, Gaston Roustan

5:10 PM–5:20 PM
2075089  The Microchannel Flow Model for Soft Tissues
Kevin Parker

5:20 PM–5:30 PM
2080299  Local Lung Ventilation Estimation Using Ultrasound Strain Measurements
Jonathan Rubin,* Jeffrey Horowitz, Thomas Sisson, Kang Kim, James Hamilton

Musculoskeletal Ultrasound
Earn up to 1.75 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.
Northern Hemisphere E 3-4
Moderators: Minna Kohler, MD, Daniel Haun, DC

3:45 PM–4:00 PM
Anchor Speaker: Minna Kohler, MD

4:00 PM–4:07 PM
2102444  Transverse Median Nerve Movement According to the Severity of Carpal Tunnel Syndrome
Gi-Young Park,* Dong-Sun Park

4:07 PM–4:14 PM
2092355  Platelet-Rich Plasma and Hyperosmolar Dextrose (Prolotherapy) for Lateral Epicondylitis: Power Doppler Sonographic Assessment of Tendon Neovascularity as a Measure of the Healing Response
Andrew Schapiro,* Kenneth Lee, David Rabago, John Wilson
### Obstetric Ultrasound: Fetal Anomalies

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

**Southern Hemisphere II**

**Moderators:** Anne Kennedy, MBBCh, MRCP, Susan Campbell Westerway, PhD

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Authors</th>
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<tbody>
<tr>
<td>3:45 PM–4:10 PM</td>
<td>Standardization of the Lung-to-Head Ratio in the Prediction of the Prognosis in Isolated Congenital Diaphragmatic Hernias: A Single-Center Experience</td>
<td>Ingrid Britto, Nicolas Sananes, Darrell Cass, Christopher Cassady, Amy Mehollin-Ray, Stephen Welty, Joan Mastroberta, Oluwayinka Olutoye, Wesley Lee, Michael Belfort, Rodrigo Ruano*</td>
</tr>
<tr>
<td>4:31 PM–4:38 PM</td>
<td>Longitudinal Assessment of 2-Dimensional Ultrasonographic Lung Measurements in Fetuses With Isolated Left-Sided Congenital Diaphragmatic Hernias</td>
<td>Rodrigo Ruano,* Ingrid Britto, Haleh Sangi-Haghpeykar, Michael Belfort, Russell Deter, Wesley Lee</td>
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</table>

**Anchor Speaker:** Anne Kennedy, MBBCh, MRCP
**Musculoskeletal Ultrasound**

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**Europe 6**

*Moderators: Kenneth Lee, MD, Nathalie Bureau, MD, FRCP(C), Joseph Craig, MB ChB*

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 2016.

**AIUM Committee Meeting**

4:00 PM–5:00 PM

**Executive Committee and Liaisons Meeting**

**Europe 2**

7:00 PM–11:00 PM

**AIUM Leadership Banquet (by invitation only)**

**Southern Hemisphere V**

**AIUM Community Meeting**

**Basic Science and Instrumentation**

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

*Americas Seminar Room*

*Moderators: Keith Wear, PhD, Michael Oelze, PhD, Caterina Gallippi, PhD*

The Basic Science and Instrumentation Community holds a meeting during each Annual Convention. That 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 discussion 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 order those topics. The highest ranking of these 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.