

Saturday, March 27

Convention

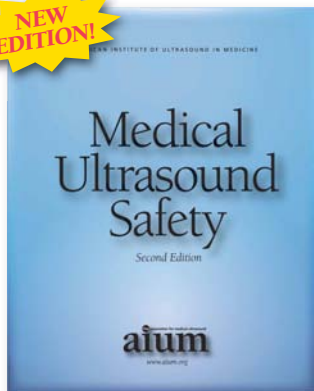
Schedule at a Glance

6:00 AM–5:00 PM	Registration Open
7:00 AM–8:00 AM	<i>Journal of Ultrasound in Medicine</i> Editorial Board Meeting
7:00 AM–8:00 AM	Meet-the-Professor Sessions
8:00 AM–12:30 PM	Resident/Medical Student Course
8:15 AM–9:15 AM	Exhibit Advisory Council Meeting
8:15 AM–10:15 AM	Categorical Courses
9:30 AM–2:00 PM	Exhibit Hall Open
10:15 AM–11:15 AM	Community of Practice Meetings
10:15 AM–11:15 AM	Refreshment Break in the Exhibit Hall
11:15 AM–12:15 PM	Scientific Sessions
11:15 AM–12:15 PM	Just Images Sessions
12:30 PM–1:30 PM	Community of Practice Council Meeting
12:30 PM–1:30 PM	Lunch in the Exhibit Hall
12:30 PM–1:30 PM	Scientific Poster Discussion
1:45 PM–3:15 PM	Categorical Courses
2:30 PM–5:00 PM	Executive Committee Meeting
3:30 PM–5:00 PM	Scientific Sessions
3:30 PM–5:00 PM	Just Images Sessions
5:15 PM	AIUM Business Meeting
5:30 PM–8:00 PM	Board of Governors Meeting

Essential Reading!

Medical Ultrasound Safety, Second Edition

**NEW
EDITION!**



This publication meets the US Food and Drug Administration (FDA) recommendations (Track 3) for education programs for the clinical end user.

Attention Manufacturers

The FDA suggests that manufacturers provide a copy of *Medical Ultrasound Safety* with ultrasound equipment they sell. Licensing agreements are available for manufacturers. Contact the AIUM resource specialist at 301-498-4100 for more information.



More than 140,000 copies sold!

All operators of ultrasound systems with an output display should review the information in this publication. The book consists of 3 parts: Bioeffects and Biophysics, Prudent Use, and Implementing ALARA (as low as reasonably achievable). With the information from this publication, users can better control the diagnostic ultrasound equipment and examination to ensure that needed diagnostic information is obtained with minimal risk to the patient. (2009; 64 pp) ISBN 1-932962-13-1

NEW CME OPPORTUNITY!

Earn up to 3 CME credits!

A new feature of this edition is the inclusion of a CME self-study test at the end of each section. Individuals who successfully complete all 3 self-study tests can earn up to 3 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits. Fees for CME credits apply, and instructions for test submission are included within the publication.

Product #: MUS

Pricing: Member: \$35 • Nonmember: \$70

Available at the AIUM Resource Center, Booth 100.
Order online at www.aium.org, or call 800-638-5352 or 301-498-4100.



7:00 AM–8:00 AM

Meet-the-Professor Sessions

S1 Sonography of Developmental Dysplasia of the Infant Hip

Henrietta K. Rosenberg, MD

Columbia 3 – North Tower/Lobby Level

This session will discuss the diagnostic features of developmental hip dysplasia and monitoring of therapy as well as joint effusion and ultrasound-guided hip aspiration.

S2 Interventional Musculoskeletal Ultrasound: Tendon, Ligament Injections, and Joint Injections

Ralf Thiele, MD

Columbia 1/2 – North Tower/Lobby Level

This session will discuss interventional musculoskeletal ultrasound, including the tendon, ligament injections, and joint injections.

S3 Twins, Triplets (and More): Double, Triple (and More) Jeopardy

David Schrimmer, MD, and Gina James, RDMS

Torrey 1/2 – North Tower/Lobby Level

The objective of this session is to discuss how to determine amnionicity and chorionicity in multiple gestations, the sonographic features important to evaluate in twin transfusion syndrome (TTS), and treatment options for TTS and other complications of multiple gestations such as acardiac twins and conjoined twins.

S4 Correlation With Biochemical Markers in the Abdomen

J. Louis Hinshaw, MD

Anaheim – Marriott Pavilion/Lobby Level

This session is a review of various markers in obstetrics and the abdomen to help the sonographer and sonologist in their search for the proper pathology that the marker may indicate.

S5 Ultrasound Evaluation of Liver and Kidney Transplants

Ulrike Hamper, MD

Torrey 3 – North Tower/Lobby Level

This session covers the ultrasound criteria for diagnosing complications involving liver and kidney transplants.



8:00 AM–12:30 PM

Resident/Medical Student Course: Diagnostic Ultrasound—The Basics

Program Chair: Joan M. Mastrobattista, MD

Columbia 1/2 – North Tower/Lobby Level

This course will provide the basics of diagnostic ultrasound imaging. Equipment terminology and functionality will be discussed. Participants will learn about bio-effects and basic ultrasound physics, knobology and machine controls, abdominal imaging, emergency department ultrasound, obstetric and gynecologic ultrasound, thyroid and carotid imaging, and vascular imaging. On completion of this course, participants will be aware of the importance of ultrasound energy and the effects of improper machine settings and will learn tricks to optimize image quality.



8:15 AM–10:15 AM

Categorical Courses

Nine concurrent in-depth courses presented by top experts in the field are conducted during this period.

Advances in Adult Neurosonology

Moderator: Charles Tegeler, MD

Torrey 1/2 - North Tower/Lobby Level

Following this course, participants will be able to discuss the role of transcranial Doppler (TCD) and transcranial color-coded duplex ultrasound in adult patients with asymptomatic and symptomatic carotid and vertebral artery disease, acute stroke, clinical implications of neurologic intensive care unit TCD monitoring of patients with elevated intracranial pressure, vasospasm, brain death, and traumatic brain injury.

- 8:15 AM–8:45 AM** Transcranial Doppler Sonography in Carotid Stenosis
Tatjana Rundek, MD, PhD
- 8:45 AM–9:15 AM** Embolus Detection With Transcranial Doppler Sonography
Zsolt Garami, MD
- 9:15 AM–9:45 AM** Use of Contrast Agents in Extracranial and Transcranial Sonography
Eva Bartels, MD, PhD
- 9:45 AM–10:15 AM** Transcranial Doppler Sonography in Traumatic Brain Injury
Charles Tegeler, MD

Arterial Stent Interventions and Ultrasound Criteria for Evaluation

Moderator: *John Blebea, MD*

San Diego C - North Tower/Lobby Level

This course will include discussions of the following: carotid ultrasound, renal artery stenosis, aortic aneurysm treatments, and lower extremity arterial evaluations.

- 8:15 AM–8:45 AM** Carotid Ultrasound: Criteria for Evaluation Following Stenting
B. K. Lal, MD
- 8:45 AM–9:15 AM** Criteria for Diagnosing Renal Artery Stenosis Following Stenting
Tara Mastracci, MD
- 9:15 AM–9:45 AM** Criteria for Evaluation Following Stenting
Hisham Bassiouny, MD
- 9:45 AM–10:15 AM** Ultrasound Criteria for Postoperative Evaluation of Aortic Endografts
Phillip Bendick, PhD

Breast Ultrasound: Including Elastography

Moderator: *Susan J. Ackerman, MD*

Columbia 3 - North Tower/Lobby Level

This course will discuss Doppler ultrasound evaluation of breast masses, ultrasound screening, ultrasound of the postoperative breast, ultrasound-guided breast and cervical node biopsy, 3-dimensional ultrasound, and elastography. The course will fulfill Mammography Quality Standards Act CME requirements for breast imaging.

- 8:15 AM–8:45 AM** Breast Ultrasound and Elastography
Stamatia V. Destounis, MD
- 8:45 AM–9:15 AM** Breast Cancer Staging With Ultrasound
Gary Whitman, MD
- 9:15 AM–9:45 AM** Sonographic Evaluation of Axillary Lymph Nodes in Patients Undergoing Minimally Invasive Breast Biopsy
A. Thomas Stavros, MD
- 9:45 AM–10:00 AM** New Advances in Breast Ultrasound
Mukund Joshi, MD
- 10:00 AM–10:15 AM** Mammographic, Magnetic Resonance Imaging, and Ultrasound Correlation
Susan J. Ackerman, MD

Creating a Positive Work Environment

*Moderators: Audrey Fleming, RDMS, RVS, and Carolyn Modlin, RT(R), RDMS, RVT
Torrey 3 - North Tower/Lobby Level*

This course will provide talks covering employee satisfaction, patient satisfaction, healthy work environments, and employee retention.

- 8:15 AM–8:55 AM** The Power of Trust and Confidence in Ultrasound Labs
Kathleen M. Hanlon-Lundberg, MD
- 8:55 AM–9:35 AM** Customer Satisfaction: How to Deal With Unhappy Customers
George Berdejo, BA, RVT
- 9:35 AM–10:15 AM** Minute-to-Minute Happiness in the Work Place
James S. Pennington, RDMS



Hands-on Ultrasound-Guided Biopsy

Moderators: Vikram Dogra, MD, and Wui Chong, MD

Marriott Hall 5 - Marriott Pavilion/Lobby Level

This course will provide practical demonstrations of thyroid, breast, liver, and kidney biopsy. Before the hands-on workshop, a 20-minute lecture will cover preprocedure preparation, technique, and complications of biopsies in general.

Faculty: Susan J. Ackerman, MD, Nami Azar, MD, Shwata Bhatt, MD, Wui Chong, MD, Corinne Deurdulian, MD, Vikram Dogra, MD, Rick Feld, MD, Ulrike Hamper, MD, MBA, Mark E. Lockhart, MD, MPH, Dean Nakamoto, MD, Raj M. Paspulati, MD, and Deborah J. Rubens, MD

Live Scanning of the Fetal Heart: Technique Demonstration

Moderators: Wesley Lee, MD, and Lami Yeo, MD

Marina E/F - South Tower/Level 3

The objective of this course is to have an expert specialist perform live scanning of the fetal heart offstage with the audience watching a live video projection during a discussion of the protocol to be followed and the anatomic images obtained during the examination. Techniques, basic views, and fetal cardiac anatomy will be reviewed, including how to overcome imaging constraints and the important components of screening and fetal echo examinations.

- 8:15 AM–8:55 AM** Basic Fetal Cardiac Examination: The Obstetric Approach
Greggory R. DeVore, MD
- 8:55 AM–9:35 AM** Basic Fetal Cardiac Examination: The Sonographer Approach
Julia A. Drose, BA, RT, RDMS, RVT, RDCS
- 9:35 AM–10:15 AM** Basic Fetal Cardiac Examination: The Pediatric Cardiology Approach
Mark Sklansky, MD

Newer Transducer Technologies

Moderators: Anne L. Hall, PhD, and Thomas Szabo, PhD

San Diego A - North Tower/Lobby Level

This course is designed to educate and familiarize the audience with the latest developments in ultrasound transducer methods, construction, and materials.

- 8:15 AM–8:45 AM** Advances in High-Frequency Transducer Technology
K. Kirk Shung, PhD
- 8:45 AM–9:15 AM** Piezoelectric Composite Micromachined Ultrasonic Transducer: A New Ultrasound Transducer Technology
Xiaoning Jiang, PhD
- 9:15 AM–9:45 AM** Capacitive Micromachined Ultrasonic Transducers: A Platform for Medical Imaging, Therapy, and Sensing
Omer Oralkan, PhD
- 9:45 AM–10:15 AM** Diagnostic Ultrasound in the 21st Century: Latest Developments and Trends
Alan C. Tai, PhD

Things You Should Know but Are Afraid to Ask (Legal, Safety, and Coding)

Moderator: Jacques S. Abramowicz, MD

San Diego B - North Tower/Lobby Level

This course will discuss the legal ramifications of suspected ectopic pregnancies treated with methotrexate and found to be intrauterine pregnancies, the biosafety of ultrasound, and coding issues for obstetric ultrasound.

- 8:15 AM–8:55 AM** Ectopic Pregnancy: Clinical and Legal Implications
James M. Shwayder, MD, JD
- 8:55 AM–9:35 AM** Safety Issues
Thomas R. Nelson, PhD
- 9:35 AM–10:15 AM** Coding Issues
Joshua A. Copel, MD

Ultrasound Evaluation of Dyspnea

Moderator: Anthony Dean, MD

Marina D - South Tower/Level 3

This course is designed to discuss a comprehensive point-of-care ultrasound approach to evaluation of the dyspneic patient, including cardiac, lung, vascular, and traumatic causes of dyspnea.

- 8:15 AM–8:45 AM** Sonographic Evaluation of Cardiac Causes of Dyspnea
Paul R. Sierzenski, MD, RDMS
- 8:45 AM–9:15 AM** Sonographic Evaluation of Pulmonary Causes of Dyspnea
Vicki Noble, MD, RDMS
- 9:15 AM–9:45 AM** Other Causes of Dyspnea
David P. Bahner, MD, RDMS
- 9:45 AM–10:15 AM** Sonographic Evaluation of Pediatric Causes of Dyspnea
James W. Tsung, MD

10:15 AM–11:15 AM Community of Practice Meetings

Cardiovascular Ultrasound | San Diego C - North Tower/Lobby Level

Fetal Echocardiography | Marina E/F - South Tower/Level 3

Pediatric Ultrasound | Columbia 3 - North Tower/Lobby Level

Therapeutic Ultrasound | San Diego A - North Tower/Lobby Level

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



AIUM Apple Giveaway Drawing! | \$100 Apple Store Gift Card

Winner will be posted at the AIUM Resource Center—Booth 100.

There's still time to stop by and submit your entry for an additional drawing to be held during lunch today (one entry per person qualifies you for all drawings).



11:15 AM–12:15 PM

Scientific Sessions

Five concurrent sessions, each including 5 presentations on the latest ultrasound research, are offered during this period. *indicates presenter.

Basic Science: Instrumentation 2

Moderators: *Elisa Konofagou, PhD, and Jeremy Dahl, PhD*

San Diego C – North Tower/Lobby Level

11:15 AM–11:27 AM

731986 Quantitative Ultrasound Inverse Scattering and Tomographic Refraction-Corrected B-Scan

*Wiskin, James**; Borup, David; Klock, John; Steven, Johnson; Berggren, Michael; Smith, Jessica; Callahan, Karleen

11:27 AM–11:39 AM

732580 Suitability of Tissue-Mimicking Materials for Testing Tissue Harmonic Imaging Performance

*Deaner, M. E. **; Madsen, Ernest L.

11:39 AM–11:51 AM

732535 Radio Frequency Elastographic Tensor Engine's New Opportunities

Scott, Guy W.

11:51 AM–12:03 PM

732323 Methods for Generating Crawling Waves With Radiation Force from Ultrasonic Beams

*Hah, Zaegyoo**; Cho, Yong Thung; An, Liwei; Hazard, Christopher; Rubens, Deborah J.; Strang, John; Parker, Kevin

12:03 PM–12:15 PM

697560 A Flexible Implantable Sensor for Postoperative Monitoring of Blood Flow

*Cannata, Jonathan**; Vilkomerson, David; Chilipka, Tom; Yang, Hao-Chung; Han, Sukgu; Rowe, Vincent; Weaver, Fred

Clinical Sonography: Genitourinary

Moderators: Monzer Abu-Yousef, MD, and Nira Beck-Razi, MD

San Diego A - North Tower/Lobby Level

11:15 AM–11:27 AM

730632 **Acoustic Radiation Force Impulse Imaging of the Human Prostate In Vivo**

*Zhai, Liang**; Polascik, Thomas; Mouraviev, Vladimir; Madden, John; Nightingale, Kathryn

11:27 AM–11:39 AM

731669 **Striated Appearance of the Testes: What Does It Mean?**

*Dhillon, Gurpreet**; Bhatt, Shweta; Sidhu, Ravinder; Dogra, Vikram

11:39 AM–11:51 AM

730552 **Assessment of Registration Accuracy in 3-Dimensional Transrectal Ultrasound Images of Prostates**

*Karnik, Vaishali V.**; Ward, Aaron D.; Bax, Jeff; Cool, Derek W.; Gardi, Lori; Gyacskov, Igor; Romagnoli, Cesare; Fenster, Aaron

11:51 AM–12:03 PM

731270 **Spectrum of High-Resolution Sonographic Features of Urinary Tuberculosis**

Vijayaraghavan, S. Boopathy

12:03 PM–12:15 PM

725285 **Ultrasonographic Evaluation of Urinary Bladder Tumors in Sokoto, Northwestern Nigeria**

Maaji, Sadisu M.

Clinical Sonography: Gynecologic 2

Moderators: Rochelle Andreotti, MD, and Charlotte Henningsen, MS, RT(R), RDMS, RVT

Marina D - South Tower/Level 3

11:15 AM–11:27 AM

731132 Intrauterine Pregnancies and Intrauterine Devices: Findings on Sonography
*Moschos, Elysia**; *Twickler, Diane M.*

11:27 AM–11:39 AM

731009 Increasing the Accuracy of Transvaginal Ultrasound to Diagnose Adenomyosis: Which Finding Is Best?
Verma, Usha; *Croce, Clara*; *Gonzalez-Quintero, Victor*; *Verma, Nupur*; *Cruz-Pachano, Francisco E.**

11:39 AM–11:51 AM

729853 Sonohysterography Versus Transvaginal Ultrasonography: A Blinded Retrospective Case Series of 800 Consecutive Patients With Polyps Diagnosed on Sonohysterography—How Accurate Is Transvaginal Ultrasonography?
*Hartman, Alex**; *Hartman, Michael*

11:51 AM–12:03 PM

714825 A Prospective Observational Comparative Single-Center Trial to Predict In Vitro Fertilization and Embryo Transfer Outcomes by Ovarian Doppler Ultrasound Measurements
*Szyller, Alain H.**; *Silverberg, Kaylen M.*; *Crumb, Robert S.*; *Vaughn, Thomas C.*; *Hansard, Lisa J.*; *Burger, Natalie Z.*

12:03 PM–12:15 PM

732618 A New Emerging Indication in Gynecologic Ultrasound: Difficult Pelvic Examinations
*Cruz-Pachano, Francisco E.**; *Gonzalez-Quintero, Victor*; *Vazquez-Vera, Enrique*; *Verma, Usha*

Clinical Sonography: Obstetric—Fetal Echocardiology

Moderators: *Mark Sklansky, MD, and Deborah D'Agostini, RDMS*

Marina E/F – South Tower/Level 3

11:15 AM–11:27 AM

732237 **Increasing the Detection Rate of Fetal Cardiac Defects During Routine Obstetric Screening Using a Standardized Assessment in Real Time Technique**
*Scott, Ted E. *; Jones, Judy; Rosenberg, Herschel; Thompson, Andrea; Ghandehari, Hournaz; Rosta, Neil; Jozkow, Kim; Stromer, Malka; Moran, Gerald; Swan, Hans*

11:27 AM–11:39 AM

732087 **Acquired Mitral Arcade in Twin-Twin Transfusion Syndrome**
*Moon-Grady, Anita J. *; Losada, Elizabeth; Wu, Danny; Ursell, Phillip*

11:39 AM–11:51 AM

732630 **Prenatal Diagnostic Rates of Severe Aortic Stenosis Versus Hypoplastic Left Heart Syndrome**
*Moon-Grady, Anita J. *; Gonzalez, Monica; Gosnell, Kristen; Rand, Larry; Meadows, Jeffery; Tworetzky, Wayne*

11:51 AM–12:03 PM

732232 **Fetal Tetralogy of Fallot: Impact of Extracardiac Anomalies and Chromosomal Abnormalities on Perinatal Outcomes**
*Mirza, Fadi *; Tung, Stephanie; Bauer, Samuel; Simpson, Lynn L.; Glickstein, Julie*

12:03 PM–12:15 PM

732454 **Can a Complete Fetal Echocardiographic Examination Be Performed at 12–16 Weeks' Gestation?**
*Shahanavaz, Shabana *; Moon-Grady, Anita J.; Caughey, Aaron; Hornberger, Lisa*

Clinical Sonography: Obstetric—Fetal Growth

Moderators: *Thomas Kelly, MD, and Lisa Allen, BS, RDMS*

San Diego B - North Tower/Lobby Level

11:15 AM–11:27 AM

702427

Normogram of the Cerebellar Vermis Using 3-Dimensional Ultrasound and Its Utility in Differential Diagnosis of Posterior Fossa Anomalies

*Dighe, Manjiri**; *Guttmann, Amy*; *Mitsumori, Lee*; *Dubinsky, Theodore*

11:27 AM–11:39 AM

732260

Association Between Pregnancy Complications and Small for Gestational Age Birth Weight Defined by a Customized Fetal Growth Standard Versus a Population-Based Standard

Odibo, Anthony O.; *Francis, Andre*; *Cahill, Alison*; *Macones, George*; *Gardosi, Jason*

11:39 AM–11:51 AM

732695

Prospective Validation of Fetal Weight Estimation Using Fractional Limb Volume

*Lee, Wesley**; *Balasubramaniam, Mamtha*; *Riggs, Thomas*; *Deter, Russell L.*; *Yeo, Lami*; *Hassan, Sonia S.*; *Kusanovic, Juan P.*; *Gonçalves, Luis F.*; *Romero, Roberto*

11:51 AM–12:03 PM

728541

Prenatal Second-Trimester Fetal Long Bone Measurements and the Prediction of Small for Gestational Age Fetuses at Term

*Speer, Paul**; *Simhan, Hyagriv*; *Hill, Lyndon*

12:03 PM–12:15 PM

732388

Early Biometric Lag as a Predictor of Adverse Pregnancy Outcomes

*Pessel, Cara**; *Krieger, Abba M.*; *Coletta, Jaclyn*; *Timor-Tritsch, Ilan E.*; *Schwartz, Nadav*



11:15 AM–12:15 PM

Just Images Sessions

Diagnostic Conundrums in the Breast

Moderators: Gary Whitman, MD, and Susan J. Ackerman, MD

Torrey 3 - North Tower/Lobby Level

Faculty: Susan J. Ackerman, MD, Stamatia V. Destounis, MD, and Gary Whitman, MD

This session will provide presentations of challenging breast cases in which ultrasound had a vital role in diagnosis.

Skeleton and Face

Moderator: Diane M. Twickler, MD, and Maryann Tarsa, MD

Columbia 3 - North Tower/Lobby Level

Faculty: Diane M. Twickler, MD, and Maryann Tarsa, MD

This session will emphasize congenital anomalies of the fetal skeleton using both 2- and 3-dimensional ultrasound.

Sports Medicine

Moderator: Jay Smith, MD

Torrey 1/2 - North Tower/Lobby Level

Faculty: Jonathan Halperin, MD, Jon Jacobson, MD, Levon Nazarian, MD, Carolyn Sofka, MD, and Steve Wisniewski, MD

Sports medicine applications are an important part of musculoskeletal ultrasound. This session will include physiatry and rehabilitation indications.

Technical Errors

Moderator: M. Robert De Jong, RDCS, RDMS, RVT

Manchester 3 - North Tower/Lobby Level

Faculty: James Pennington, RDMS, Jennifer McDowell, RVT, RDMS, RT, and Salvatore LaRusso, MEd, RDMS, RT(R)

This session will address various faux pas from our laboratories.



12:30 PM–1:30 PM

Lunch in the Exhibit Hall



AIUM Apple Giveaway Drawing! | iPod Nano (with built-in video camera!)

Winner will be posted at the AIUM Resource Center—Booth 100. It could be you!



12:30 PM–1:30 PM

Scientific Poster Discussion

Leucadia, Oceanside, Pacific, Point Loma, and Solana – South Tower/Level 1

See page 113 for list of posters.



1:45 PM–3:15 PM

Categorical Courses

Nine concurrent in-depth courses presented by top experts in the field are conducted during this period.

Ankle and Foot Ultrasound

Moderator: David Fessell, MD

San Diego C – North Tower/Lobby Level

The course topics discussed will include sonographic anatomy and conditions including tendinosis, ligament injury, enthesopathy, plantar fasciitis, effusion, synovitis, and gout of this less frequently discussed joint area.

- 1:45 PM–2:05 PM** Sonographic Anatomy of the Ankle and Foot
Kenneth S. Lee, MD
- 2:05 PM–2:25 PM** Sonographic Pathology of the Ankle and Foot
David Fessell, MD
- 2:25 PM–2:45 PM** Ultrasound of the Foot and Ankle: Indications in Rheumatology
Ralf Thiele, MD
- 2:45 PM–3:05 PM** Ultrasound of the Foot and Ankle: Indications in Sports Medicine
Jay Smith, MD
- 3:05 PM–3:15 PM** Questions and Answers

Basic Fetal Heart Scanning Protocols for Screening

Moderator: Thomas R. Nelson, PhD

Marina E/F – South Tower/Level 3

The objective of this course is to review protocols for performance of a basic fetal cardiac screening examination, including what information is required, how to obtain it, pitfalls to avoid, and how to assess normal fetal cardiac anatomy.

- 1:45 PM–2:15 PM** A Protocol-Driven Approach to the Basic Fetal Cardiac Examination: 4-Chamber View
Wesley Lee, MD
- 2:15 PM–2:45 PM** A Protocol-Driven Approach to the Basic Fetal Cardiac Examination: Outflow Tracts
Mark Sklansky, MD
- 2:45 PM–3:15 PM** A Protocol-Driven Approach to the Basic Fetal Cardiac Examination: Arches and the 3-Vessel View
Liat Gindes, MD

Elastography

Moderators: Carolyn Modlin, RT(R), RDMS, RVT, and M. Robert De Jong, RDCS, RDMS, RVT

San Diego A - North Tower/Lobby Level

By the end of this course, participants should be able to discuss how elastography works and some current clinical applications.

- 1:45 PM–2:30 PM** Clinical Applications of Elastography
Margaret Szabunio, MD
- 2:30 PM–3:15 PM** Understanding How Elastography Works
Matthew Ernst, RDMS

Molecular Imaging

Moderators: Ronald H. Silverman, PhD, and Michael C. Kolios, PhD

Columbia 1/2 - North Tower/Lobby Level

Recent developments in microbubble technology have made molecular imaging with high-frequency ultrasound possible. It now joins other high-resolution methods in the study of molecular medicine. This course will review the state of the art technology and ongoing research.

- 1:45 PM–2:05 PM** Ultrasound Molecular Imaging: Optimizing Methods for a Clinical Protocol
Katherine Ferrara, PhD
- 2:05 PM–2:25 PM** Contrast Ultrasound Molecular Imaging of Cardiovascular Regenerative Therapies
Howard Leong-Poi, PhD
- 2:25 PM–2:45 PM** Contrast and Molecular Imaging With Micro-Ultrasound
E. Stuart Foster, PhD
- 2:45 PM–3:05 PM** Photoacoustic Tomography: In Vivo Functional and Molecular Imaging Beyond the Optical Diffusion Limit
Lihong Wang, PhD
- 3:05 PM–3:15 PM** Questions and Answers

Multimodality Evaluation of Emergency Patient Treatment: Ultrasound and Beyond

Moderator: Leslie Scutt, MD

San Diego B - North Tower-Lobby Level

This course will discuss, compare, and contrast the utility of ultrasound alone and in combination with computed tomography, magnetic resonance imaging, and other advanced imaging in emergency patients.

1:45 PM–2:30 PM Abdominal Pathologic Evaluation: Ultrasound and Its Complements
Joan C. Prowda, MD

2:30 PM–3:15 PM Pelvic Pathologic Evaluation: Ultrasound and Its Complements
Leslie Scutt, MD

The Fetal Brain: Still an Enigma

Moderator: Deborah Levine, MD

Marina D - South Tower/Level 3

This course will discuss the state of the art in diagnosis/prognosis of ventriculomegaly and posterior fossa abnormalities. The role of magnetic resonance imaging will be presented, but the emphasis will be on ultrasound.

1:45 PM–2:15 PM Ventriculomegaly: Update
Deborah Levine, MD

2:15 PM–2:45 PM Posterior Fossa: Update
Ruth B. Goldstein, MD

2:45 PM–3:15 PM Three-Dimensional Ultrasound of the Brain
Ana Monteagudo, MD, RDMS

Therapeutic Ultrasound: 50+ Years of Progress

Moderator: *J. Brian Fowlkes, PhD*

Torrey 3 - North Tower/Lobby Level

The AIUM recently established a Therapeutic Ultrasound Community of Practice to emphasize the importance of this medical application of ultrasound and foster its growth within the multidisciplinary structure of the AIUM. Over more than 50 years, ultrasound therapies have been well established in a wide variety of medical applications, and there is currently a substantial number of investigations to expand its use. This course will provide an overview of the progress that has been made in disease treatment by ultrasound and will examine the current development of ultrasound-based therapies. The objectives of the course are to provide the historical perspective for the progress in therapeutic ultrasound, update participants on some of the current medical applications, and examine the potential for future developments in the field.

- 1:45 PM–2:00 PM** Therapeutic Ultrasound: From Theory to Clinical Applications
Elisa E. Konofagou, PhD
- 2:00 PM–2:15 PM** Focused Ultrasound Treatment of Uterine Fibroids
Shannon Laughlin, MD
- 2:15 PM–2:30 PM** Magnetic Resonance Imaging–Guided Focused Ultrasound
William Bradley, Jr, MD, PhD
- 2:30 PM–2:45 PM** Expanding the Impact of Therapeutic Ultrasound
Christy K. Holland, PhD
- 2:45 PM–3:15 PM** Panel Discussion

Ultrasound of Superficial Lumps and Bumps, Nodes, and Salivary Glands

Moderator: *Wui Chong, MD*

Torrey 1/2 - North Tower/Lobby Level

This course will discuss sonography of palpable superficial masses, including cutaneous and subcutaneous solid and cystic tumors, lymphadenopathy, foreign bodies, salivary glands, and hernias.

- 1:45 PM–2:15 PM** Ultrasound of Superficial Palpable Lumps
Levon Nazarian, MD
- 2:15 PM–2:45 PM** Sonography of Lymph Nodes
Wui Chong, MD, FRCR
- 2:45 PM–3:15 PM** Sonography of Hernias
A. Thomas Stavros, MD

Ultrasound of the Pediatric Pelvis: Disorders in Boys and Girls

Moderator: Sara M. O'Hara, MD

Columbia 3 - North Tower/Lobby Level

This course will discuss ultrasound of pelvic abnormalities and will include ovarian masses and torsion, congenital anomalies, and pelvic inflammatory disease. Scrotal disorders examined will include tumors, testicular torsion, varicocele, and hydrocele.

- 1:45 PM–2:10 PM** The Female Pelvis in Infancy and Childhood
Lynn Fordham, MD
- 2:10 PM–2:35 PM** The Female Pelvis in Adolescence
Sara M. O'Hara, MD
- 2:35 PM–3:00 PM** Pediatric Scrotal Disorders
Steven Kraus, MD
- 3:00 PM–3:15 PM** Questions and Answers

Introducing the AIUM's NEW

Career Center

Looking for that perfect fit? Introducing the new Career Center, an interactive online job board. The Career Center is your resource for making online employment connections in the health care industry.

Visit the AIUM Career Center at Booth 100 in the Exhibit Hall.
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3:30 PM–5:00 PM Scientific Sessions

Four concurrent sessions, each including 7 presentations on the latest ultrasound research, are offered during this period. *indicates presenter.

Basic Science: Bioeffects, Image Processing, and Analysis

Moderators: William D. O'Brien, Jr, PhD, and Narendra Sanghvi, MSEE
Marina D - South Tower/Level 3

3:30 PM–3:42 PM

732504 Spatially Sensitive Passive Cavitation Detection With Ultrasound Imaging Arrays During Focused Ultrasound Ablation
Salgaonkar, Vasant A. *; Holland, Christy K.; Mast, T. Douglas

3:42 PM–3:54 PM

729786 Experimental Comparison Between Microbubble Activity and Sonoporation Efficacy of Monolayer Chinese Hamster Ovary Cells
King, Daniel A. *; Sen-Gupta, Ellora; O'Brien, William D. Jr

3:54 PM–4:06 PM

727377 Two Competing Strategies for Intima-Media Thickness Measurement in Carotid Ultrasound: A Stroke Indicator
Molinari, Filippo; Zeng, Guang; Suri, Jasjit*

4:06 PM–4:18 PM

727119 Immune System Modulation With Low- and High-Intensity Focused Ultrasound Treatment of Prostate Cancer
Sanghvi, Narendra T. *; Chen, Wohsing; Carlson, Roy; Guha, Chandan; Zhang, Huagang

4:18 PM–4:30 PM

742425 In Vivo Hemostasis Detection at Human Femoral Arteriotomy by Acoustic Radiation Force Impulse Ultrasound
Behler, Russell H.; Scola, Mallory R.; Nichols, Timothy C.; Caughey, Melissa C.; Fisher, Melrose W.; Zhu, Hongtu; Gallippi, Caterina M. *

4:30 PM–4:42 PM

728844 Acoustoelastographic Mapping of the Stiffness Gradient Distribution in the Rotator Cuff for Pathology Identification
Frisch, Kayt*; Lee, Kenneth S.; Baer, Geoff; Kobayashi, Hirohito; Vanderby, Ray

4:42 PM–4:54 PM

742452 In Vivo Acoustic Radiation Force Impulse Imaging of the Mechanical Properties of Muscle in a Dog Model of Duchenne Muscular Dystrophy
Scola, Mallory R.; Kornegay, Joe N.; Gallippi, Caterina M. *

Clinical Sonography: Emergency 2

Moderator: Michael Blaivas, MD

Columbia 1/2 - North Tower/Lobby Level

3:30 PM–3:42 PM

732924 A Prospective Randomized Comparison of Conscious Sedation to an Ultrasound-Guided Interscalene Nerve Block for Shoulder Reduction in the Emergency Department
Blaivas, Michael

3:42 PM–3:54 PM

732794 Peer-Mentored Ultrasound Training Trial
Bailey, Jared; Jeppesen, Kelly; Stehmeier, Ian; Kube, Erika; Bahner, David P.*

3:54 PM–4:06 PM

732319 Pneumothorax Localization on Computed Tomography: A Retrospective Analysis to Develop a Streamlined Protocol for Ultrasound Screening
Mennicke, Maria; Oliva, Isabel; Gulati, Kavita; Goldflam, Katja; Skali, Hicham; Ledbetter, Stephen M.; Platz, Elke*

4:06 PM–4:18 PM

732691 Right-Sided Diaphragm Movement Is a Sensitive and Specific Marker of Tracheal Intubation in a Cadaver Model
*Ferre, Robinson M. *; Lotterman, Seth; Pitotti, Chris; Pitotti, Rebecca; Peng, Jenn*

4:18 PM–4:30 PM

731961 Comparative Extravasation Rates of 1.75- and 2.5-Inch Ultrasound-Guided Peripheral Vascular Catheters
Bauman, Michael J.; Nomura, Jason T.; Schofer, Joel M.; Resurreccion, Debbie; Toulson, Karen; Reed, James F.; Sierzenski, Paul R.*

4:30 PM–4:42 PM

732420 Ultrasound of the Inferior Vena Cava Can Be Used as a Measure of Volume Status in Pediatric Patients
Dickman, Eitan; Ayvazyan, Sergey; Likourezos, Antonios; Wu, Stanley; Hannan, Hashibul; Fromm, Christian; Marshall, John*

4:42 PM–4:54 PM

705460 Utility and Effectiveness of Ultrasound-Guided Emergency Transvenous Pacemaker Placement
Blaivas, Michael

Clinical Sonography: Obstetrics—New Techniques and Multiple Gestations

Moderators: David Schrimmer, MD, and Gina James, RDMS

Marina E/F – South Tower/Level 3

3:30 PM–3:42 PM

730833 Placental Vascular Indices Obtained by a Single Central Sonobiopsy Correlate Well With Those From Evaluation of the Entire Placenta
*Tuuli, Methodius G. *; Schoenborn, Jean; Odibo, Anthony O.*

3:42 PM–3:54 PM

732531 Current Practices in Determining Amnionicity and Chorionicity in Multiple Gestation
*Wan, Jennifer J. *; Taché, Véronique; Quinn, Kristen; Schrimmer, David; Lacoursiere, Yvette; James, Gina; Pretorius, Dolores H.*

3:54 PM–4:06 PM

732720 Learning Curve Analysis for Fractional Limb Volume Measurements Using the Cusum Technique
*Lee, Wesley *; Tsimis, Michael; Riggs, Thomas; Deter, Russell L.; Yeo, Lami; Gonçalves, Luís F.; Romero, Roberto*

4:06 PM–4:18 PM

732282 Subjective Assessment of Amniotic Fluid Volume in Monochorionic Diamniotic Twins Results in Overestimation of Oligohydramnios
*Smith, Nicole A. *; Lyons, Jennifer; Robinson, Julian N.*

4:18 PM–4:30 PM

732593 Image-Processing Techniques for Improved 3-Dimensional Ultrasound Imaging: A Comparative Study
*Forsberg, Flemming *; Berghella, Vincenzo; Merton, Daniel A.; Rychlak, Keith; Meiers, Joann; Goldberg, Barry B.*

4:30 PM–4:42 PM

732629 Elastography in Fetal Growth Restriction: An Ex Vivo Placental Study
*Beiswenger, Timothy *; Ghate, Sujata; Zhai, Liang; Boyd, Brita; Nightingale, Kathryn*

4:42 PM–4:54 PM

732509 Cervical Cerclage for a Short Cervix After Laser Photocoagulation in Twin-Twin Transfusion Syndrome
*Papanna, Ramesha *; Mann, Lovepreet; Johnson, Anthony; Moise, Kenneth J.*

Practice of Sonography

Moderator: M. Robert De Jong RDCS, RDMS, RVT

Columbia 3 - North Tower/Lobby Level

3:30 PM–3:42 PM

732813 Low Female to Male Birth Gender Ratios Among Asians in California: The Possible Role of Keepsake Ultrasound
Lin, G. Sharat

3:42 PM–3:54 PM

731591 Ultrasound on Picture Archiving and Communications Systems: Are Radiologists Satisfied?
Emerson, Donald; Cohen, Harris L.; Parks, Frank; Wan, Jim Y.; Graves, Houston*

3:54 PM–4:06 PM

730592 Prospective Durability Testing of a Commercially Available Vascular Access Phantom
Schofer, Joel M.; Nomura, Jason T.*; Bauman, Michael J.; Sierzenski, Paul R.

4:06 PM–4:18 PM

732482 Ultrasound-Guided Vascular Access Training in Medical School
Adkins, Eric J*; Kube, Erika; Bahner, David P.

4:18 PM–4:30 PM

720359 The Best Way to Image Crohn Disease With Sonography: Volumetric and Movie Acquisition
Medellin, Alexandra K.*; Gupta, Chander; Valin, Chris; Wilson, Stephanie R.

4:30 PM–4:42 PM

732982 The Radiologic-Pathologic Conference: A Valuable Tool for Quality Assurance and Staff and Resident Education
Schieda, Jill*; McNamara, M. P.; Eckhauser, Christine; Dubrovka, Oravec; Janine, Milligan; Pham, Ramya M.

4:42 PM–4:54 PM

732168 Role of High-Resolution Ultrasound in Diagnosis of Brachial Plexus Injury
Srivastava, Pradeep K



3:30 PM–5:00 PM

Just Images Sessions

Cardiac Ultrasound in the Emergency Department and Intensive Care Unit

*Moderators: Christopher L. Moore, MD, RDMS, RDCS, and Alexander Levitov, MD
San Diego C – North Tower/Lobby Level*

*Faculty: Christopher L. Moore, MD, RDMS, RDCS, Alexander Levitov, MD,
James Tsung, MD, and Erika Kube, MD*

This session will compare and contrast the utility of ultrasound and chest radiography for the diagnosis of common and infrequent findings in the emergency department and intensive care unit.

Comprehensive Fetal and Pediatric Neurosonology: Clinical Applications

Moderator: Mary B. McCarville, MD

Torrey 3 – North Tower/Lobby Level

Faculty: Mike A. DiPietro, MD, and Vesna Kriss, MD

This session will present ultrasound cases of fetal and pediatric cranial and spine abnormalities with audience participation.

Difficult Biopsies and Interventional Procedures

Moderator: Vikram Dogra, MD

San Diego A – North Tower/Lobby Level

Faculty: Dean Nakamoto, MD, and Wael Saad, MD

This session will discuss complications and pitfalls of the biopsy technique.

Fetal Cardiac Unknowns: Complex

Moderator: Julia A. Drose, BA, RT, RDMS, RVT, RDCS

San Diego B – North Tower/Lobby Level

*Faculty: Julia A. Drose, BA, RT, RDMS, RVT, RDCS, Liat Gindes, MD,
Mark Sklansky, MD, and Lami Yeo, MD*

The objective of this session is to view and discuss cases of complex fetal cardiac abnormalities that are initially not known and how to make the diagnosis.



5:15 PM

AIUM Business Meeting

Torrey 1/2 – North Tower/Lobby Level



5:30 PM–8:00 PM

Board of Governors Meeting

Manchester – North Tower/Lobby Level



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