

Sunday, April 5 Convention

Schedule at a Glance

6:30 AM–5:00 PM	Registration Open
7:00 AM–8:00 AM	Meet-the-Professor Sessions
7:00 AM–8:00 AM	<i>Journal of Ultrasound in Medicine</i> Editorial Board Meeting
8:15 AM–10:15 AM	Categorical Courses
8:15 AM–9:15 AM	Exhibit Advisory Council Meeting
8:30 AM–10:30 AM	Ultrasound Practice Accreditation Council Meeting
10:15 AM–11:15 AM	Refreshment Break in the Exhibit Hall
10:15 AM–11:15 AM	Community of Practice Meetings
10:30 AM–12:00 PM	Membership Committee Meeting
11:15 AM–12:15 PM	Just Images Sessions
11:30 AM–1:30 PM	Community of Practice Council Meeting (formerly Council on Sections)
12:30 PM–1:30 PM	Meet-the-Professor Sessions
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	Quick Take Sessions
5:00 PM	AIUM Business Meeting



Visit www.aium2009.org for daily convention blogs, pictures, video clips, Community of Practice news, and more!

Additional CME Opportunities Available Through the AIUM

2009 Postgraduate Courses

Sonography Registry Review

June 6–7, 2009
Montgomery College
Takoma Park, Maryland

Hands-on Musculoskeletal Ultrasound: Diagnostic and Interventional Techniques

July 9–11, 2009
Mayo Clinic
Rochester, Minnesota

Breast Ultrasound: Current Concepts and Future Directions

August 22–23, 2009
Gaylord National Hotel on the Potomac
National Harbor, Maryland

Pediatric Ultrasound: Basic, Advanced, and Problem-Based Imaging

November 14–15, 2009
Eden Roc Hotel
Miami Beach, Florida

Vascular Ultrasound

November 14–15, 2009
Eden Roc Hotel
Miami Beach, Florida

Sonography Registry Physics Review

December 5, 2009
Montgomery College
Takoma Park, Maryland

CME Video Programs

CME video programs are available on a variety of ultrasound topics. To view or purchase any of these programs, visit the AIUM Resource Center in the Westside Ballroom on the Fifth Floor, or visit the online store at www.aium.org

Journal of Ultrasound in Medicine (JUM) CME Tests

AIUM Members benefit from free online test submission of CME self-study tests from current and archived issues of the *JUM*—access up to 84 CME tests worth up to 1 CME credit each! Visit www.aium.org



7:00 AM-8:00 AM

Meet-the-Professor Sessions

Four concurrent Meet-the-Professor sessions (MTPs) are offered at this time. The MTPs must be paid for separately. Visit the registration desk to register for any MTPs that are not sold out.

SUNA1 Preoperative Duplex Ultrasound Arterial Mapping

Natalie Marks, MD

Ziegfeld • Fourth Floor

The objective of this session is to describe duplex arterial mapping as a powerful, unique, and accurate imaging technique for assessment of ischemic lower extremities before revascularization procedures.

SUNA2 Sonography of the Appendix and Abdominal Wall Hernias

Cindy Rapp, BS, RDMS

Wildier • Fourth Floor

Sonography plays a vital role in noninvasive evaluation of patients with right lower quadrant (RLQ) pain. Sonography can differentiate appendicitis and hernias from other etiologies of pelvic pain. Successful demonstration of a normal-sized appendix virtually excludes appendicitis in the patient with RLQ pain. The first portion of this session will cover how to find the normal appendix with sonography. Abdominal wall hernias are a common clinical problem. Sonography is an accurate means of identifying abdominal wall hernias when the clinical diagnosis is uncertain. We will also discuss how to identify inguinal, femoral, and spigelian hernias. On completion of this session, participants will be able to identify the sonographic landmarks for locating the appendix, list the various locations of abdominal wall hernias, and recognize the contents of abdominal wall hernias.

SOLD OUT

SUNA3 Everything You've Always Wanted to Know About Imaging of Uterine Fibroids

Douglas L. Brown, MD

O'Neill • Fourth Floor

After this session, participants will understand common and uncommon sonographic features of uterine fibroids, the appearance of fibroids by computed tomographic, positron emission tomographic, and magnetic resonance scanning, and limitations in the diagnosis of uterine leiomyosarcoma. The role of imaging in evaluating patients for uterine fibroid embolization and focused ultrasound ablation of fibroids will also be discussed.

SOLD OUT

SUNA4 Transcranial Doppler Ultrasound—Applications From Fetal Life to Brain Death

Dorothy Bulas, MD

Odets • Fourth Floor

Following this session, the participant should be able to describe the numerous applications for transcranial Doppler (TCD) ultrasound, including middle cerebral artery velocities for fetal anemia, neonatal resistive indices for hydrocephalus and asphyxia, and the TCD protocol for sickle cell disease. The use of TCD ultrasound for vasospasm, trauma, and brain death will also be discussed.



8:15 AM-10:15 AM

Categorical Courses

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

Acoustic Microscopy

Moderators: Gregory Czarnota, PhD, MD, and Michael Oelze, PhD

Gramercy/Olmstead • Seventh Floor

The objective of the course is to familiarize clinicians and scientists with the latest developments in acoustic microscopy, how these developments are being used to better understand microstructure of tissues, how this better understanding of tissue properties can lead to improved scattering models for imaging at conventional frequencies, and how acoustic microscopy can be used clinically. Clinical applications include intravascular ultrasound, development of techniques to monitor therapy through quantification of cell death and apoptosis, ultrasonically based tissue pathology, and characterization of bone. The latest advances in acoustic microscopy and novel applications will be presented.

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|--------------------------|---|
| 8:15 AM-8:20 AM | Introduction
<i>Michael Oelze, PhD</i> |
| 8:20 AM-8:45 AM | Acoustic Microscopy of Live Cells and Cell Aggregates
<i>Michael Kolios, PhD</i> |
| 8:45 AM-9:10 AM | Scanning Acoustic Microscopic Characterization of the Microstructure and Microelastic Properties of Bone
<i>Fabienne Rupin, MD</i> |
| 9:10 AM-9:35 AM | Acoustic Microscopy of Individual Cells and Cell Clusters
<i>Eike Weiss, MD</i> |
| 9:35 AM-10:00 AM | Multimode Ultrasound Microscope for Biomedical Applications
<i>Yoshifumi Saijo, MD, PhD</i> |
| 10:00 AM-10:15 AM | Questions and Answers |

After-hours Pediatric Imaging

Moderator: Lynn Fordham, MD

Soho/Herald • Seventh Floor

This course will review the ultrasound evaluation of common pediatric emergencies.

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|--------------------------|--|
| 8:15 AM–8:20 AM | Introduction
<i>Lynn Fordham, MD</i> |
| 8:20 AM–8:45 AM | Ultrasound Evaluation of the Vomiting Infant
<i>Harriett Paltiel, MD</i> |
| 8:45 AM–9:10 AM | Pelvis
<i>Sara O'Hara, MD</i> |
| 9:10 AM–9:35 AM | Bowel Appendicitis/Intussusceptions and Necrotizing Enterocolitis
<i>Lynn Fordham, MD</i> |
| 9:35 AM–10:00 AM | Scrotal Ultrasound
<i>Brian Coley, MD</i> |
| 10:00 AM–10:15 AM | Questions and Answers |

Breast Ultrasound

Moderator: Susan Ackerman, MD

Astor Ballroom • Seventh Floor

The objectives of this course are to familiarize participants with sonographic techniques such as color Doppler imaging for characterizing breast lesions. Postbiopsy management of discordant lesions will also be discussed. At the conclusion of this course, participants will be able to understand the practical application of new techniques such as elastography and 3-dimensional imaging and the role of ultrasound in breast cancer screening.

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|-------------------------|--|
| 8:15 AM–8:45 AM | The Role of Color Doppler Sonography in Characterizing Breast Lesions
<i>Susan Ackerman, MD</i> |
| 8:45 AM–9:15 AM | Postbiopsy Management of Breast Lesions: Understanding Concordant and Discordant Results
<i>Abid Irshad, MD</i> |
| 9:15 AM–9:45 AM | The Role of Ultrasound in Screening for Breast Cancer
<i>Wendie Berg, MD, PhD</i> |
| 9:45 AM–10:15 AM | Three-Dimensional Ultrasound and Elastography of the Breast
<i>Stamatia Destounis, MD</i> |



Elastography

Moderator: Audrey Fleming, RDMS, RVS

Empire Complex • Seventh Floor

Elastography is a new aspect of ultrasound that has shown great promise in breast imaging. This course will discuss how elastography works, the different methods used in elastography, current uses of elastography, applications that are currently being evaluated, and the proper way to perform an elastographic examination.

- 8:15 AM–8:45 AM** What Elastography Is and How Elastography Works
Elisa Konofagou, MD
- 8:45 AM–9:15 AM** Clinical Applications
Sughra Raza, MD
- 9:15 AM–9:30 AM** Elastography Applications in the Thyroid
Margaret Szabunio, MD
- 9:30 AM–10:15 AM** Hands-on Scanning

Extremity Trauma

Moderators: Vivek Tayal, MD, and Srikar Adhikari, MD

Shubert Complex • Sixth Floor

The objective of this course is to discuss ultrasound in the evaluation of closed extremity fractures, the application of ultrasound in evaluating open extremity fractures, and the use of ultrasound in a therapeutic role for treating extremity trauma.

- 8:15 AM–8:20 AM** Introduction
Vivek Tayal, MD
- 8:20 AM–8:50 AM** Ultrasound Evaluation of the Injured Extremity:
An Initial Approach
Vivek Tayal, MD
- 8:50 AM–9:15 AM** The Therapeutic Role of Ultrasound in Extremity
Trauma
Srikar Adhikari, MD
- 9:15 AM–9:40 AM** Vascular Injuries in Extremity Trauma
Michael Stone, MD
- 9:40 AM–10:05 AM** Extremity Trauma in the Pediatric Patient
James Tsung, MD
- 10:05 AM–10:15 AM** Questions and Answers

First-Trimester Obstetric Ultrasound: Fetal Heart, Bioeffects, and Anomalies

Moderator: *Jacques Abramowicz, MD*

Broadway Ballroom South • Sixth Floor

The objective of this course is to discuss first-trimester sonographic issues related to bioeffects, fetal anomaly detection, and other systemic anomalies.

- 8:15 AM–8:20 AM** Introduction
Jacques Abramowicz, MD
- 8:20 AM–9:00 AM** Fetal Structural Anomaly Survey: Can It Be Done?
Kafui Demasio, MD, MPH
- 9:00 AM–9:40 AM** Fetal Heart Scanning: How Early Can We Go?
Kathryn Reed, MD
- 9:40 AM–10:10 AM** Is All This Safe for the Fetus?
Jacques Abramowicz, MD
- 10:10 AM–10:15 AM** Questions and Answers

Gynecologic Sonography of Infertility

Moderator: *Elizabeth Puscheck, MD, MS*

Broadway North • Sixth Floor

Over the last 10 years, ultrasound has revolutionized the field of reproductive endocrinology and infertility. We use ultrasound to evaluate and diagnose reproductive endocrine and infertility problems as well as to monitor patients and do procedures. This session will focus on the initial evaluation of the infertility patient and treatments.

- 8:15 AM–8:50 AM** Using Baseline Ultrasound in the Evaluation and Counseling of the Infertile Couple
Elizabeth Puscheck, MD, MS
- 8:50 AM–9:25 AM** Sonohysterograms to Evaluate the Uterus and Tubes
Alexander Hartman, MD
- 9:25 AM–10:00 AM** Ultrasound Used in Infertility Treatments
Misty Blanchette Porter, MD
- 10:00 AM–10:15 AM** Questions and Answers

Interventional Musculoskeletal Ultrasound

Moderator: Levon Nazarian, MD

Marquis Ballroom • Ninth Floor

At the conclusion of this course, participants will be familiar with various ultrasound-guided procedures of the joint and bursae, soft tissue biopsy techniques, and various tendon procedures, such as calcification lavage and aspiration and percutaneous tenotomy.

- 8:15 AM–8:35 AM** Tendon and Tendon Sheath
Nathalie Bureau, MD
- 8:35 AM–8:55 AM** Joint and Bursa
Diana Gaitini, MD
- 8:55 AM–9:15 AM** Soft Tissue Biopsy
Gregory Saboeiro, MD
- 9:15 AM–9:25 AM** Questions and Answers
- 9:25 AM–9:45 AM** Percutaneous Tenotomy of the Common Extensor Tendon
John McShane, MD
- 9:45 AM–10:05 AM** Intratendinous Injections for Chronic Tendinopathy
Jay Smith, MD
- 10:05 AM–10:15 AM** Questions and Answers



10:15 AM–11:15 AM

Refreshment Break in the Exhibit Hall

Supported by



imagination at work



10:15 AM–11:15 AM

Community of Practice Meetings

Emergency and Critical Care Ultrasound

Shubert Complex • Sixth Floor

Fetal Echocardiography

Marquis Ballroom • Ninth Floor

Neurosonology

Soho/Herald • Seventh Floor



11:15 AM-12:15 PM

Just Images Sessions

Fetal Echocardiology: Fetal Anatomy

Lami Yeo, MD, and Gregory DeVore, MD

Marquis Ballroom • Ninth Floor

Gynecologic Ultrasound

Phyllis Glanc, MDCM, BSC, and Sherelle Laifer-Narin, MD

Broadway Ballroom North • Sixth Floor

Interventional/Intraoperative Ultrasound

Dean Nakamoto, MD, Deborah Rubens, MD, and Wael Saad, MD

Majestic/Music Box • Sixth Floor

Musculoskeletal Ultrasound: Rheumatologic Applications

Ralf Thiele, MD, Alvin Wells, MD, PhD, Gurjit Kaeley, MBBS, MRCP, Richard Haddad, MD, and Anna Ciechomska, MD, PhD

Astor Ballroom • Seventh Floor

Neurosonology

Dorothy Bulas, MD, Judy Estroff, MD, and Carol Barnewolt, MD

Soho/Herald • Seventh Floor

Pediatric Ultrasound

Steven Kraus, MD, and Harris Cohen, MD

Gramercy/Olmstead • Seventh Floor

Practice of Obstetric Ultrasound

Mindy Horrow, MD, and Sandra Allison, MD

Broadway Ballroom South • Sixth Floor

Practice of Sonography

Diana McCormick Strickland, BSBA, RDMS, RDCS, and Mani Montazemi, RDMS

Shubert Complex • Sixth Floor



12:30 PM-1:30 PM

Meet-the-Professor Sessions

Four concurrent Meet-the-Professor sessions (MTPs) are offered at this time. The MTPs must be paid for separately. Visit the registration desk to register for any MTPs that are not sold out.

SUNP1 Sonographic Evaluation of Thyroid Nodules

Diana Gaitini, MD

Ziegfeld • Fourth Floor

SOLD OUT

After this session, participants will have learned indications for thyroid sonography, instrumentation and techniques (B-scan and color Doppler imaging), differential diagnosis of diffuse pathology and focal lesions, and indications and techniques for fine-needle aspiration biopsy and percutaneous treatment.

SUNP2 Ultrasound in the Operating Room: A “How to Do It” Guide

Robert Kane, MD

Wilder • Fourth Floor

This session will review practical tips to perform ultrasound-guided biopsies. The various approaches that can be used to perform biopsies and methods to avoid complications will be emphasized.

SUNP3 Coding for Obstetric Ultrasound

Peter Doubilet, MD

O'Neill • Fourth Floor

SOLD OUT

The objective of this session is to describe appropriate coding in obstetric ultrasound and provide practical advice regarding coding.

SUNP4 Basic Fetal Cardiac Screening

Wesley Lee, MD

Odets • Fourth Floor

SOLD OUT

At the end of this session, participants will understand how to apply AIUM guidelines for the performance of a second-trimester fetal cardiac screening examination and will also be able to identify common heart abnormalities.



12:30 PM-1:30 PM

Scientific Poster Discussion

Fourth and Seventh Floor Foyers



1:45 PM-3:15 PM

Categorical Courses

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

Carotid Ultrasound

Moderator: *Edward Bluth, MD*

Empire Complex • Seventh Floor

After attending this course, participants will be able to understand the criteria used to grade carotid stenosis, understand the criteria used for determining the type of plaque present, and understand the significance of plaque characterization.

- | | |
|------------------------|---|
| 1:45 PM-2:00 PM | Treatment: Endarterectomy and Stenting
<i>Sidney Holec, MD</i> |
| 2:00 PM-2:15 PM | Intima-Media Thickness Evaluation
<i>Joseph Polak, MD, MPH</i> |
| 2:15 PM-2:35 PM | Plaque Characterization
<i>Edward Bluth, MD</i> |
| 2:35 PM-2:55 PM | Stenosis Grading
<i>John Pellerito, MD</i> |
| 2:55 PM-3:10 PM | Transcranial Doppler Ultrasound
<i>Andrei Alexandrov, MD, RV</i> |
| 3:10 PM-3:15 PM | Questions and Answers |

Fetal Heart Abnormalities Requiring Immediate Postdelivery Attention

Moderator: *Mark Sklansky, MD*

Marquis Ballroom • Ninth Floor

The objective of this course is to review those congenital heart abnormalities that will require immediate postdelivery attention. This course is designed to assist practitioners in identifying fetal heart abnormalities and optimizing their prenatal and postnatal management in collaboration with the pediatric cardiology team.

- | | |
|------------------------|--|
| 1:45 PM-2:15 PM | Pathophysiology of Fetal Heart Abnormalities Requiring Immediate Postdelivery Attention
<i>Lami Yeo, MD</i> |
| 2:15 PM-2:45 PM | Prenatal Diagnosis of Fetal Heart Abnormalities Requiring Immediate Postdelivery Attention
<i>Miwa Geiger, MD</i> |
| 2:45 PM-3:15 PM | Management of Fetal Cardiac Defects From a Pediatric Cardiology Standpoint
<i>Mark Sklansky, MD</i> |

Improving Patient Management With Transvaginal Ultrasound

Moderator: James Shwayder, MD, JD

Broadway Ballroom North • Sixth Floor

This course will address the use of ultrasound in enhancing management of patients with common gynecologic problems, including its use in planning surgical management.

- 1:45 PM–2:15 PM** Ultrasound in the Evaluation and Management of Abnormal Uterine Bleeding
Steven Goldstein, MD
- 2:15 PM–2:45 PM** Ultrasound in the Evaluation and Management of Ectopic Pregnancy
William Brown III, MD
- 2:45 PM–3:15 PM** Ultrasound in the Evaluation and Management of Adnexal Masses
James Shwayder, MD, JD

Key Applications of Transcranial Doppler Ultrasound in Adults and Pediatrics

Moderator: Charles Tegeler, MD

Soho/Herald • Seventh Floor

Following this course, participants will be able to discuss the role of transcranial Doppler (TCD) ultrasound in patients with acute stroke, describe the changes on TCD sonography in patients with cardiovascular and sleep disorders, and list the TCD velocity criteria for increased stroke risk in sickle cell disease.

- 1:45 PM–2:15 PM** Transcranial Doppler in Acute Stroke: CLOTBUST and Beyond
Andrei Alexandrov, MD, RVT
- 2:15 PM–2:45 PM** Transcranial Doppler Ultrasound in Cardiovascular, Cerebrovascular, and Sleep Breathing Disorders
Tatjana Rundek, MD, PhD
- 2:45 PM–3:15 PM** Transcranial Doppler Ultrasound in Sickle Cell Disease
Charles Tegeler, MD

Multiple Gestation: Basic, Twin-Twin Transfusion Syndrome (TTTS), and Prescribing TTTS

Moderators: *Anthony Johnson, DO, and Michael Bebbington, MD, MhSC*
Broadway Ballroom South • Sixth Floor

The objective of this course is to describe the basic sonographic evaluation of twins, the evaluation of complicated monochorionic multifetal pregnancies, and treatment options in complicated monochorionic multifetal pregnancies.

- 1:45 PM–2:15 PM** Basic Sonographic Evaluation of Twins
Ashley Breaux, RDMS
- 2:15 PM–2:45 PM** Evaluation of Complicated Monochorionic Multifetal Pregnancies
Michael Bebbington, MD, MhSC
- 2:45 PM–3:15 PM** Treatment Options in Complicated Monochorionic Multifetal Pregnancies
Anthony Johnson, DO

Therapeutic Ultrasound

Moderators: *Thomas Nelson, PhD, Thomas Szabo, PhD, and Vikram Dogra, MD*
Shubert Complex • Sixth Floor

This course will introduce one of the fastest growing applications of ultrasound. Aspects of therapeutic ultrasound that will be covered include tumor ablation, healing, surgery, thrombolysis, and drug delivery. Participants will learn clinical applications of new devices and their principles of operation.

- 1:45 PM–2:15 PM** Healing With Ultrasound: Basic Principles
Michael Bailey, PhD
- 2:15 PM–2:45 PM** Ultrasound Thrombolysis and Drug Delivery
Christy Holland, PhD
- 2:45 PM–3:15 PM** Tumor Ablation With High-Intensity Focused Ultrasound
Vikram Dogra, MD

Ultrasound of Palpable Superficial Masses: Nodes, Bumps, and Hernias

Moderator: Wui Chong, FRCR

Astor Ballroom • Seventh Floor

The objective of this course is to provide participants with an approach to assessment of palpable superficial masses. Participants will learn the sonographic techniques for distinguishing normal from abnormal lymph nodes, evaluating hernias, and characterizing cutaneous and subcutaneous masses.

1:45 PM–2:15 PM Palpable Superficial Masses
Susan Ackerman, MD

2:15 PM–2:45 PM Lymph Nodes
Wui Chong, FRCR

2:45 PM–3:15 PM Abdominal Hernias
Cindy Rapp, BS, RDMS



1:45 PM–3:15 PM

Accreditation “Getting Started” Workshop

Paula Woletz, MPH, RDMS, RDCS

Gramercy/Olmstead • Seventh Floor



3:30 PM–5:00 PM

Scientific Sessions

Eight concurrent sessions, each including up to 7 presentations on the latest ultrasound research, are offered during this period.

* indicates presenter; (CR) indicates Case Report.

● Abdominal Ultrasound

Moderator: *Abid Irshad, MD*

Empire Complex • Seventh Floor

3:30 PM–3:42 PM

554978 **Image Quantification for Diagnosis of Fatty Liver Disease: Magnetic Resonance Imaging and Ultrasound**

Tuthill, Theresa A.; Williamson, Rachel; Gray, Calum D.; Price, Jackie F; Glancy, Stephen; Marshall, Ian; Hayes, Peter C.; Reynolds, Rebecca M.; Forbes, Shareen; Johnston, Geoffrey; Strachan, Mark W*

3:42 PM–3:54 PM

532087 **Nonvisualization of Hepatic Arteries on Post-transplant Doppler Ultrasound: Technical Limitation or Real?**

Hedegard, Wade; Bhatt, Shweta; Saad, Wael; Rubens, Deborah; Dogra, Vikram*

3:54 PM–4:06 PM

554808 **Impairment of Change in Diameter of the Pancreatic Portion of the Superior Mesenteric Vein: A Sonographic Sign of Chronic Pancreatitis or Fibrosis**

Kitamura, Hiroshi; Koike, Shoichiro; Nomura, Kazuhiko; Arai, Masayuki; Nakagawa, Kan; Miyabayashi, Hideharu; Furuta, Kiyoshi*

4:06 PM–4:18 PM

538885 **Estimation of Drainable Fluid Volume by Measuring the Fluid Depths at the Paracentesis Site**

Irshad, Abid; Ackerman, Susan J.; Campbell, Amy; Anis, Munazza*

4:18 PM–4:30 PM

555016 **Enlargement of the Hilar Periportal Space and Medial Segment of the Left Lobe (Segment 4): Prospective Study—Comparison Between Healthy Individuals and Cirrhotic Patients**

Correa, Marcos E; Marcelino, Antonio S.; Baena, Marcos E.; Corradi, Gustavo; Jureidini, Regiany; Donato, Francisco; Cerri, Luciana; Cerri, Giovanni G.*

4:30 PM–4:42 PM

537103 **Percutaneous Ultrasound-Guided Treatments Under Low-Acoustic Power Harmonic Imaging With Sonazoid for Hepatocellular Carcinomas Undetected by B-Mode Ultrasonography**

Maruyama, Hitoshi; Takahashi, Masanori; Ishibashi, Hiroyuki; Okabe, Shinichiro; Yoshikawa, Masaharu; Yokosuka, Osamu*

● **Basic Science: Contrast Agents**

Moderators: *Barry Goldberg, MD, and Charles Church, PhD*
Soho/Herald • Seventh Floor

3:30 PM–3:42 PM

555020 **Ultrasound-Activated Drug Delivery With a Preclinical Therapy and Imaging System**

Shi, William T.; Böhmer, Marcel; Celebi, Muzaffer; van Wamel, Annemieke; Chin, Chien Ting; Chlon, Ceciel; Klibanov, Alexander L.; Hall, Christopher S.*

3:42 PM–3:54 PM

555288 **Functional Contrast-Enhanced Ultrasound Imaging to Monitor Rapid Tumor Response Following Selective Internal Radiation Therapy With Yttrium 90**

Kono, Yuko; Ganesan, Karthik; Gauthier, Thomas; Itani, Malak; Park, Seong Jin; Rose, Steven; Mattrey, Robert F*

3:54 PM–4:06 PM

555032 **Contrast-Enhanced Ultrasound Detection of Secondary Lymph Nodes**

Goldberg, Barry B.; Merton, Daniel A.; Liu, Ji-Bin; Mi, Chengrong; Jing, Xiang; Berger, Adam; Witkiewicz, Agnieszka*

4:06 PM–4:18 PM

555079 **Noninvasive Subharmonic Pressure Estimation: In Vitro Experiments and Modeling**

Forsberg, Flemming; Katiyar, Amit; Leodore, Lauren M.; Sarkar, Kausik*

4:18 PM–4:30 PM

555334 **Brain Molecular Imaging and Nanoparticle Delivery Through the Blood-Brain Barrier**

Konofagou, Elisa; Choi, James; Wang, Shougang; Baseri, Babak*

4:30 PM–4:42 PM

554191 **Consequences of Glomerular Capillary Hemorrhage Induced in Rats by Diagnostic Ultrasound With a Gas Body Contrast Agent**

Miller, Douglas; Dou, Chunyan; Wiggins, Roger C.*

4:42 PM–4:54 PM

554106 **Quantifying Ultrasound Contrast Agent Destruction Using Double Passive Cavitation Detection**

King, Daniel A.; Haak, Alexander; Malloy, Michael J.; Yoder, Christian C.; O'Brien, William D. Jr*

● **Basic Science: Tissue Characterization**

Moderator: William O'Brien, Jr; PhD

Shubert Complex • Sixth Floor

3:30 PM–3:42 PM

555239 Evaluation of Human Cervical Microstructure Using Quantitative Ultrasound

Feltovich, Helen; Nam, Kibo; Harter, Josephine; Kliewer, Mark; Hall, Timothy*

3:42 PM–3:54 PM

555071 Interlaboratory Comparison of Backscatter Coefficient Estimates for Tissue-Mimicking Phantoms

Anderson, Janelle; Herd, Maria T.; King, Michael; Haak, Alexander; Hafez, Zachary; Song, J.; Oelze, Michael; O'Brien, William D. Jr; Madsen, Ernest; Zagzebski, James; Hall, Timothy*

3:54 PM–4:06 PM

554427 Estimate of the Attenuation Coefficient Using a Clinical Array Transducer for the Detection of Cervical Ripening

Labyed, Yassin; Bigelow, Timothy A.; McFarlin, Barbara*

4:06 PM–4:18 PM

554515 Tissue-Type Imaging of the Prostate and Prostate Cancer Based on Classification by Support Vector Machines

Rondeau, Mark; Feleppa, Ernest J.; Dasgupta, Shreedevi; Sparks, Deborah; Porter, Christopher R.*

4:18 PM–4:30 PM

552266 Improving the Estimation of Attenuation Along the Propagation Path Using Backscattered Echoes From Multiple Sources

Bigelow, Timothy A.

4:30 PM–4:42 PM

555106 The Effect of Scatterer Size Distribution on the Backscatter Coefficient

King, Michael; Anderson, Janelle; Herd, Maria T.; Madsen, Ernest L.; Hall, Timothy J.; Haak, Alexander; Oelze, Michael L.; O'Brien, William D. Jr*

4:42 PM–4:54 PM

554193 A Model of Distributed Phase Aberration for Improved Phase Estimation From Scattering

Tillett, Jason C.; Astheimer, Jeffrey P.; Waag, Robert C.*

● **Musculoskeletal Ultrasound**

*Moderators: Kenneth Lee, MD, and William Medford, RDMS
Gramercy/Olmstead • Seventh Floor*

3:30 PM–3:42 PM

**553847 The Posterior Interosseous Nerve of the Elbow:
Normal Appearance Simulating Entrapment**

Robertson, Brian; Jamadar, David A.; Jacobson, Jon A.; Dong, Qian;
Caoili, Elaine M.; Gest, Thomas; Berry, Allison A.*

3:42 PM–3:54 PM

**552630 Ultrasound of Fat Necrosis Involving the Extremity and Torso
With Magnetic Resonance Imaging and Histologic Correlation**

Walsh, Michael; Jacobson, Jon A.; Kim, Sung Moon; Lucas, David R.;
Morag, Yoav; Fessell, David P.*

3:54 PM–4:06 PM

**555385 Sonographic Evaluation of the Supraspinatus Cross-sectional
Area in Collegiate Baseball Players**

Malanga, Gerard; Ramirez Del Toro, Jose; Karnaugh, Ronald D.;
Dentico, Richard; Komaroff, Eugene*

4:06 PM–4:18 PM

**533581 Use of Musculoskeletal Ultrasound by North American
Rheumatologists**

Kaeley, Gurjit S.

4:18 PM–4:30 PM

**551037 Calcified Tendinosis: Correlation of Ultrasound, Fourier
Transform Infrared, and Raman Spectroscopies**

Chiou, Hong-Jen; Lin, Shan-Yang; Chou, Yi-Hong; Hung, Shih-Jei*

4:30 PM–4:40 PM

537015 Multiple Glomus Tumor of the Extremity (CR)

Glazebrook, Katrina; Most, Mathew; Inwards, Carrie; Sim, Franklin*

4:40 PM–4:52 PM

**565421 Acoustoelastography of the Tendon: Applying a New Method
for Evaluating Tissue Properties and Deformation of a
Porcine Flexor Tendon**

Lee, Kenneth S.; Kobayashi, Hiro; Vanderby, Raymond; Rosas,
Humberto; Baer, Geoffrey S.*

● **Obstetric Anomalies: General**

Moderators: *Luc De Catte, MD, and Janet Adams, RDMS, RVT, CNMT, RT(N)*

Astor Ballroom • Seventh Floor

3:30 PM–3:42 PM

552812 **Developing Normative Growth Curves for Evaluation of Gastroschisis on Prenatal Ultrasound**

Kuret, Verena H.; Pollard, J.; Cooper, S.; Simrose, R.; Johnson, J.; Roggensack, A.; Connors, G.*

3:42 PM–3:54 PM

548473 **Predicting Fetal Karyotype in Fetuses With an Omphalocele: The Current Role of Ultrasound**

Zork, Noelia; Kominiarek, Michelle A.; Pierce, Sara M.; Zollinger, Terrell W.*

3:54 PM–4:06 PM

555280 **Amniotic Fluid Index as a Prognostic Factor in Pregnancies Complicated by Polyhydramnios**

Pri-Paz, Shai; Khalek, Nahla; Simpson, Lynn L.*

4:06 PM–4:16 PM

555332 **Membranous Aplasia Cutis Congenita: A Recognizable Lesion on Prenatal Ultrasound? (CR)**

Jelin, Angie C.; Glenn, Orit; Strachowski, Loretta; Vargas, Juan*

4:16 PM–4:28 PM

555367 **Vein of Galen Aneurysmal Malformations: A Correlation Between Prenatal Ultrasound, Magnetic Resonance Imaging Features, and Postnatal Outcome**

*Hindryckx, An; Naulaers, Gunnar; Locquet, Philippe; Devlieger, Roland; Dymarkowski, Steven; De Catte, Luc**

4:28 PM–4:32 PM

553856 **Potential Pitfalls in Gender Determination in the First Trimester**

*Talukdar, Sabrina; Santolaya-Forgas, Joaquin; Borrell, Toni; Horbaczewski, Cindy; Robinson, Julian N.**

● **Obstetric Ultrasound: Fetal Growth**

Moderators: *Teresita Angtuaco, MD, and Cindy Rapp, BS, RDMS*
Broadway Ballroom South • Sixth Floor

3:30 PM–3:42 PM

555553 Umbilical Vein Pulsations Are Caused by Increased Resistance in the Portal Circulation

Drennan, Kathryn J.; Picconi, Jason L.; Hanif, Farhan; Mari, Giancarlo*

3:42 PM–3:54 PM

555247 Prediction of Growth Restriction: Utility of Abdominal Circumference Measurements

Dharan, Vanita B.; Burd, Irina; Srinivas, Sindhu; Wang, Eileen; Schwartz, Nadav*

3:54 PM–4:06 PM

552964 Mitral and Tricuspid E/A Ratio Abnormality and Timing of Delivery of Severe Intrauterine Growth-Restricted Fetuses

Samson, Jacques E.; Picconi, Jason L.; Egerman, Robert; Meyer, Norman; Mari, Giancarlo*

4:06 PM–4:18 PM

549405 Aortic Isthmus Reversed Flow and Arterial Cord pH in Fetuses Delivered at ≤ 29 Weeks and Weighing ≤ 750 g

Patil, Avinash S.; Picconi, Jason L.; Meyer, Norman; Egerman, Robert; Mari, Giancarlo*

4:18 PM–4:30 PM

555629 Aortic Isthmus Doppler Transitional Phase in Intrauterine Growth-Restricted Fetuses

Picconi, Jason L.; Hanif, Farhan; Egerman, Robert; Meyer, Norman; Mari, Giancarlo*

4:30 PM–4:42 PM

553069 Maternal Obesity and Ultrasound Accuracy in Fetal Weight Estimation

Gerber, Susan

4:42 PM–4:54 PM

554472 Is Abnormal Placentation Associated With Small-for-Gestational-Age Infants?

Gaitan, Lucia F.; de la Cruz, Lucy; Marimon, Adrian; Gonzalez-Quintero, Victor H.*

● **Obstetric Ultrasound: Heart**

Moderators: *Leeber Cohen, MD, and Karen Alton, BS, RDMS, RT(R)*
Marquis Ballroom • Ninth Floor

3:30 PM–3:42 PM

551822 **Increasing the Detection Rate of Normal Fetal Cardiac Structures: A Real-time Approach**

*Scott, Ted E. *; Swan, Hans; Moran, Gerald; Mondal, Tapas; Jones, Judy; Guram, Karm; Huff, Jaime*

3:42 PM–3:52 PM

553468 **Prospective Documentation of Differences in Fetal and Postnatal Presentations of Isolated Noncompaction of the Ventricular Myocardium (CR)**

*Vidaeff, Alex C. *; Glaser, Angela; Gupta-Malhotra, Monesha*

3:52 PM–4:04 PM

555506 **Congenital Cardiac Lesions: Prenatal Readings Versus Outcomes**

Quinn, Kristen; Trivedi, Neha; Tarsa, Maryam; Caitlin, Hartney; Levy, Denis; Anton, Tracy; Pretorius, Dolores*

4:04 PM–4:16 PM

566014 **Feasibility of Telemedicine Fetal Echocardiography in a Rural Perinatal Center in Appalachia**

Shoemaker, Misty; Michelfelder, Erik; Chaffin, David; Reeves, Robin; Brooks, Deborah; Singh, Shailini*

4:16 PM–4:28 PM

540328 **The Effectiveness of Ultrasound Screening for the Detection of Major Congenital Heart Defects at a Major Teaching Hospital**

*Cohen, Leeber S. *; Cabello, Andrea; Gotteiner, Nina*

4:28 PM–4:40 PM

548761 **Screening for Congenital Heart Defects With 3-Dimensional Fast Acquisition and Sonography-Based Volume Computer-Aided Diagnosis Software at 18 to 22 Weeks' Gestation**

*Cohen, Leeber S. *; Mangers, Kristie; Platt, Lawrence D.*

4:40 PM–4:52 PM

553539 **Efficacy of an Isolated Intracardiac Echogenic Focus as a Marker for Down Syndrome**

Spencer, Jeffrey V.; Leftwich, Heidi; Prabalos, Anne M.; Benn, Peter; Egan, James*

● **Obstetric Ultrasound: New Technology**

*Moderators: Judy Estroff, MD, and Ana Monteagudo, MD, RDMS
Broadway Ballroom North • Sixth Floor*

3:30 PM–3:42 PM

549520 Three-Dimensional Magnetic Resonance Imaging Volumetry of the Brain and Ventricular System in Fetuses With Ventriculomegaly Correlated to Neonatal Outcomes

Pier, Danielle B.; Levine, Deborah; Kataoka, Milliam L.; Estroff, Judy; Werdich, Xiang Q.; Feldman, Henry A.*

3:42 PM–3:54 PM

554234 Three-Dimensional Inversion Rendering of First-Trimester Normal Brain Ventricles

Timor-Tritsch, Ilan E.; Monteagudo, Ana; Santos, Rosalba*

3:54 PM–4:06 PM

554361 A 3-Dimensional Tool for Teaching the Sonographic Assessment of Fetal Anatomy

Bankowski, Heather; Trampe, Barbara; Heiser, Timothy; Shah, Dinesh; Stewart, Kathy; Droste, Sabine*

4:06 PM–4:18 PM

537872 Median View Obtained by an Offline Analysis of 3-Dimensional Fetal Brain Volume Can Provide Easy and Reliable Measurements of the Cerebellar Vermis, Cisterna Magna, and Nuchal Fold

Bornstein, Eran; Monteagudo, Ana; Santos, Rosalba; Tsymbal, Tanya; Platt, Lawrence D.; Timor-Tritsch, Ilan E.*

4:18 PM–4:30 PM

554721 The Use of Transposterior Fornix Scanning in Patients With Uteri in the Neutral Position

Yeh, Hsu-Chong; Shapiro, Robert; Simpson, William*

4:30 PM–4:42 PM

541230 A Systematic Technique Using 3-Dimensional Ultrasound Provides a Simple and Reliable Mode for Rapid Evaluation of the Corpus Callosum

Bornstein, Eran; Monteagudo, Ana; Santos, Rosalba; Tsymbal, Tanya; Strok, Irina; Keeler, Sean; Timor-Tritsch, Ilan E.*



3:30 PM–5:00 PM

Quick Take Sessions

Abdominal and Gynecologic Ultrasound

Wilder • Fourth Floor

- 3:30 PM–3:38 PM** Echogenicity of Focal Liver Lesions: Discrepancies Between Fundamental Versus Harmonic Mode Findings
Ronald Wachsberg, MD
- 3:38 PM–3:46 PM** Use of Doppler and Volume Imaging in the Diagnosis of Diverticulitis
Edwin Cruz, MD
- 3:46 PM–3:54 PM** Biliary Microlithiasis (Defined as Structures Seen With Endoscopic Retrograde Cholangiopancreatography Aspirates) Are Detected as Intraluminal Gallbladder Echogenic Foci on Routine Gallbladder Ultrasound Utilizing a Unique Rapid Patient Rotation Technique
Barrie Steed, MD
- 3:54 PM–4:02 PM** Postablation Tubal Sterilization Syndrome With Hematometra Diagnosed by Ultrasound Following Thermal Balloon Endometrial Ablation
Jennifer Nichols, DO, and Eric Bieber, MD
- 4:02 PM–4:10 PM** The Utility of 3-Dimensional Evaluation in Sonohysterography
Clara Croce, MD

Emergency Ultrasound

Odets • Fourth Floor

- 3:30 PM–3:38 PM** Ultrasound in the Diagnosis of Hemopneumothorax
Anjali Bharati, DO
- 3:38 PM–3:46 PM** Pneumoperitoneum: Diagnosis via Ultrasound
Amie Woods, MD
- 3:46 PM–3:54 PM** Ruptured Cornuate Ectopic Pregnancy Presenting as Pulseless Electrical Activity
Michael Lambert, MD, RDMS
- 3:54 PM–4:02 PM** Pediatric Emergency Ultrasound: Diagnosing Intussusception at the Bedside—A Case Series
Stephanie J. Doniger, MD, RDMS
- 4:02 PM–4:10 PM** Great Pickup! High-Impact Cases From the Emergency Department
Yiju Liu, MD, RDMS
- 4:10 PM–4:18 PM** Sonographic Evaluation During Simulated Hypovolemia Using a Lower Body Negative Pressure Model
Edward Tham, MD

- 4:18 PM–4:26 PM** What Effect Does the Implementation of an Incentive Plan Have on the Performance of Ultrasound Examinations in a Community Emergency Department?
Rajesh Geria, MD, RDMS
- 4:26 PM–4:34 PM** Real-time Instruction of Emergency Medicine Faculty With Focused Bedside Limited Ultrasound Examinations of Patients in an Academic Emergency Department
Michael Antonis, DO, RDMS

Obstetric Ultrasound

Ziegfeld • Fourth Floor

- 3:30 PM–3:38 PM** Ultrasound Examination of Uterine Wall Defects
Ashlee Smith, DO
- 3:38 PM–3:46 PM** Twenty Years of Ultrasound in Family Medicine Obstetrics: Applications for Developing Countries
William Rodney, MD
- 3:46 PM–3:54 PM** Second-Trimester Endovaginal Ultrasound Observation of Sludge and Abnormal Obstetric Outcome: A Prospective Series
Vernon Cook, MD
- 3:54 PM–4:02 PM** Improving the Detection of Ventricular Septal Defects on Fetal Cardiac Screening Examinations
Richard Benoit, MD, MPH
- 4:02 PM–4:10 PM** Fetal Epignathus: A Visual Presentation
Lisa Allen, BS, RDMS, RDCS, RVT
- 4:10 PM–4:18 PM** Diagnosis of Heterotopic Pregnancy Using 3-Dimensional Ultrasound
Helen Feltovich, MD, MS
- 4:18 PM–4:26 PM** A Practical Solution for the Detection of Fetal Heart Defects: A Brief Review of the Opportunities and Challenges
Ted Scott, MAppSc

Vascular and Small Parts Ultrasound

O'Neill • Fourth Floor

- 3:30 PM–3:38 PM** Iatrogenic Pulmonary Embolism From Repeated Lower Extremity Sonograms: A Case Report
Nathan Teismann, MD
- 3:38 PM–3:46 PM** From Arteritis to Aneurysm
Nira Beck-Razi, MD
- 3:46 PM–3:54 PM** Hemodialysis Access Duplex Case Studies
Kathleen Hannon
- 3:54 PM–4:02 PM** Use of Ultrasound for Extraocular Movement and Pupillary Reflex Examinations in Patients With Facial Trauma
Stephen Crandall, MD
- 4:02 PM–4:10 PM** Identification of Papilledema with Bedside Ultrasound: A Pilot Study
Nathan Teismann, MD
- 4:10 PM–4:18 PM** Appearance of Neuromas After Head and Neck Surgery
Lynwood Hammers, DO
- 4:18 PM–4:26 PM** Peripheral Nerves in Leprosy: Ultrasound
Thummalakunta Praveen, MD



5:00 PM

AIUM Business Meeting

Columbia/Duffy • Seventh Floor

SCIENTIFIC POSTER SESSIONS

Fourth and Seventh Floor Foyers

Posters are available for viewing Friday, April 3, 11:30 AM–5:00 PM, Saturday, April 4, 7:00 AM–4:30 PM, and Sunday, April 5, 7:00 AM–2:00 PM.

Authors will be available to discuss their research presented on the following posters on Sunday, April, 5, 12:30 PM–1:30 PM.

538639 **The Twinkling Artifact Revisited: When and How to Look?**
*Choudhary, Shaile**; Kielar, Ania; St Germain, Jane; Bogie, Lisa J.

551626 **First-Trimester Pelvic Pain: Spectrum of Sonographic Findings**

*Chandrasekhar, Chitra**; Birt, Bradley B.

552783 **Neonatal Neuromuscular Disorders Associated With Fetal Polyhydramnios**

*Fuchs, Karin**; Bauer, Samuel; Van der Veer, Anne; Simpson, Lynn

554709 **Biplanar and 3-Dimensional Ultrasound in Emergency Applications**

*Tayal, Vivek S.**; Weekes, Anthony; Jayarama, Krishnaraj

554722 **Prospective Evaluation of Optic Nerve Sheath Diameter Ultrasound Measurement to Rule Out Intracranial Pressure in Adult Nontraumatic Patients**

*Tayal, Vivek S.**; Mahoney, Laurie; Saunders, Timothy; Norton, H. James

554819 **Contribution of Echo-Enhanced Contrast Agents in Assessment of Liver, Kidney, and Pancreatic Transplants**

*Marcelino, Antonio S.**; Saito, Osmar; Chipoch, Conrado; Chammas, Maria C.; Cerri, Giovanni G.

555203 **Accuracy of Bedside Ultrasound in the Diagnosis of Abscesses in the Emergency Department**

Corbo, Jill; Wang, Jessica*; Ruder, Sonali; Chertoff, Andrew

555212 **Pilot Study: Can Emergency Physicians Diagnosis Acute Appendicitis Using Bedside Ultrasonography?**

Corbo, Jill; Wang, Jessica*; Begleiter, David

555301 **Assessment of Metastatic Spread in Lymph Nodes by Ultrasound Scanning in Combination With Positron Emission Tomographic Imaging in a Murine Melanoma Model**

*Denoyer, Delphine**; Potdevin, Titaina; Dorow, Donna; Hicks, Rod