

Sunday, April 1

Convention

Schedule at a Glance

7:00 AM–8:00 AM	<i>Journal of Ultrasound in Medicine</i> Editorial Board Meeting Just Images and Comprehensive Refresher Sessions
8:15 AM–9:15 AM	Exhibitor Advisory Council Meeting
8:15 AM–10:15 AM	Special Interest Sessions Hands-on Special Interest Session
10:15 AM–10:45 AM	Refreshment Break in the Exhibit Hall
10:45 AM–12:30 PM	Hands-on Special Interest Session Oral Sessions
12:30 PM–1:30 PM	Community of Practice Council Meeting Lunch in the Exhibit Hall Scientific E-Poster Discussions
1:30 PM–3:30 PM	Special Interest Sessions Hands-on Special Interest Session
1:30 PM–3:30 PM	Executive Committee Meeting
3:45 PM–4:15 PM	AIUM Business Meeting
4:30 PM–7:00 PM	Board of Governors Meeting

See [Community Meetings](#) tab for Interest Group meeting times.

AIUM CME Opportunities

2012 Postgraduate Courses

Hands-on Diagnostic and Interventional Musculoskeletal Ultrasound in the Lower Limb: A Problem-Solving Approach

July 19–21, 2012 • Mayo Clinic • Rochester, Minnesota

Course Chair: Jay Smith, MD

Point-of-Care Ultrasound for the Emergency and Critically Ill Patient A Comprehensive Didactic and Hands-on Course for All Clinicians Involved in Treating Acutely Ill Patients

August 3–5, 2012 • Caesars Palace • Las Vegas, Nevada

Course Chairs: Michael Blaivas, MD, and Vicki Noble, MD

Thyroid and Parathyroid Ultrasound Imaging and Update on Thyroid Disorders

August 3–5, 2012 • Caesars Palace • Las Vegas, Nevada

Course Chairs: Jill Langer, MD, and Daniel Duick, MD

Register online at www.aium.org.

2013 AIUM Annual Convention

April 6–April 9, 2013 • New York Marriott Marquis Hotel • New York, New York

CME DVD Programs

CME DVD programs are available on a variety of ultrasound topics. For more information, or to purchase any of these programs, visit the AIUM Resource Center or online store at www.aium.org.

Journal of Ultrasound in Medicine (JUM) CME Tests

AIUM members receive FREE online 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!

Webinars

Archived and upcoming webinars on a variety of medical ultrasound topics are now available online with FREE CME credit available to AIUM members. Visit www.aium.org.

Subject to change.

Visit www.aium.org for more information.



7:00 AM–8:00 AM

Journal of Ultrasound in Medicine Editorial Board Meeting

Desert Suites IV–VI



7:00 AM–8:00 AM

Just Images and Comprehensive Refresher Sessions

Contrast-Enhanced Ultrasound: Applications in the Liver and Abdominal Transplants

Grand Sonoran H-I

CEUS

B&A

SONO

Moderator: Ulrike Hamper, MD

The objective of this session is to describe applications of contrast-enhanced ultrasound in the liver and abdominal transplants, including characterization of focal masses, transplant evaluation, and the patency of liver vasculature.

7:00 AM–7:30 AM Benign and Malignant Liver Lesions
Stephanie Wilson, MD

7:30 AM–8:00 AM Liver and Renal Transplants
Paul Sidhu, BSc, MRCP, FRCR

Fetal Cardiac Anomalies: 3- and 4-Dimensional Cases

Grand Canyon 6

FE

OB

SONO

Moderators: Liat Gindes, MD, and Wesley Lee, MD

Speakers: Reuven Achiron, MD, Liat Gindes, MD, and Wesley Lee, MD

The objective of this session is to view and discuss cases of fetal cardiac anomalies diagnosed using 3- and 4-dimensional sonography.

Hepatobiliary Imaging

Grand Canyon 3–5

B&A

SONO

Moderator: Leslie Scoutt, MD

Speakers: Nira Beck-Razi, MD, and Shweta Bhatt, MD

This session is designed to describe the imaging techniques of the liver, gallbladder, and pancreas, to help understand the pitfalls of the techniques, and to describe the sonographic findings of gallbladder disease and portal hypertension.

Interesting Cases in the Pediatric Neck

Grand Canyon J-K

PEDS

B & A

SONO

MSK

Moderator: Eva Rubio, MD

Speakers: Beth Kline-Fath, MD, Martha Munden, MD, and Eva Rubio, MD

This session will cover sonographic cases with regard to congenital malformations and developmental lesions affecting soft tissue and vessels in the pediatric neck.

Maintaining Advanced Quality With Fiscal Responsibility

Grand Sonoran F

ALL

Moderator: James Pennington, RDMS, RVS

Speakers: Joseph Adashek, MD, and James Pennington, RDMS, RVS

This session is designed to help attendees understand the balance of business and science.

Nonfetal Obstetrics: Placenta, Membranes, and Cervix

Grand Sonoran E

OB

B & A

SONO

Moderator: Harris Finberg, MD

Speaker: Harris Finberg, MD

This session will review the ultrasound evaluation of the placenta, membranes, and cervix.

Thoracic Ultrasound in the Emergency and Critical Care Patient

Grand Canyon 8

ERCC

IVIO

SONO

Moderator: James Tsung, MD

Speakers: Anthony Dean, MD, and James Tsung, MD

This session will discuss advanced ultrasound applications in evaluating thoracic and cardiac emergencies in settings ranging from the emergency department to the intensive care unit and the operating suite. The latest innovations and data will be included in comprehensive coverage of the topic.



8:15 AM–9:15 AM

Exhibitor Advisory Council Meeting

Desert Suite VIII



8:15 AM–10:15 AM

Special Interest Sessions

Basic Obstetric Ultrasound

Grand Canyon 9–13

OB

SONO

Moderator: Jude Crino, MD

This session is appropriate for those with experience in basic-level obstetric ultrasound or who have attended the basic-level hands-on session in the morning. Participants will scan second-trimester pregnant models with supervision by sonographer and physician experts. The class size will be limited to 3 students per instructor. Skills taught in this basic-level session include detailed basic obstetric ultrasound to better learn your machine settings for fetal biometrics, fetal anomalies, and more.

8:15 AM–10:15 AM Hands-on Scanning

Julia Solomon, MD, Christina Bird, BS, RDMS, RVT, Kathleen Bradley, MD, Jenice Gonyea, RDMS, RTR, Joseph Wax, MD, Sharon Horton, RDMS, RT, Luis Izquierdo, MD, and Celeste Sheppard, MD

Diagnosing and Treating Venous Disease

Grand Sonoran F

CARDIO

B&A

SONO

Moderators: Salvatore LaRusso, MEd, RDMS, RT(R), and John Pellerito, MD

By the end of this session, participants should be able to: discuss the sonographic criteria for detecting venous thrombosis, discuss the sonographic criteria for detecting venous reflux, and list different treatment options for patient's with venous thrombosis or venous reflux.

8:15 AM–8:35 AM Ultrasound Diagnosis of Venous Thrombosis

Deborah Rubens, MD

8:35 AM–8:55 AM Controversies in Diagnosis

Laurence Needleman, MD

8:55 AM–9:15 AM Treatment: Thrombolysis and Intravascular Ultrasound

Patricia Thorpe, MD

9:15 AM–9:35 AM Diagnosing and Treating Venous Disease

Evan Unger, MD

9:35 AM–9:55 AM Diagnosis of Reflux

Jennifer McDowell, RVT, RDMS, RT

9:55 AM–10:15 AM Treatment of Reflux

Alessandra Puggioni, MD

Evaluation of Fetal Cardiac Function: Live Demonstration

Grand Canyon 6

FE OB B&A SONO

Moderator: Gregory DeVore, MD

The objective of this session is to learn how to evaluate fetal cardiac function. Topics to be discussed include normal and abnormal cardiac function, 2-dimensional methods, 3- and 4-dimensional methods, spectral Doppler imaging, tissue Doppler imaging, and the myocardial performance index.

8:15 AM–9:15 AM Normal and Abnormal Cardiac Function (2-Dimensional Methods, Spectral Doppler, and Tissue Doppler) and Live Demonstration
Gregory DeVore, MD

9:15 AM–10:15 AM Evaluation of Fetal Cardiac Function With 3- and 4-Dimensional Methods (3- and 4-Dimensional Ultrasound, M-Mode Tricuspid Annular Plane Systolic Excursion, and Myocardial Performance Index)
Simcha Yagel, MD

Newborn Neurosonography in the Acute Care Setting

Grand Sonoran H-I

NEURO B&A SONO PEDS

Moderator: Beth McCarville, MD

The objective of this session is to educate radiologists and sonographers about the utility of transcranial Doppler ultrasound and head ultrasound in the newborn acute care setting.

8:15 AM–8:45 AM Neonatal Intracranial Hemorrhage
Harriet Paltiel, MD

8:45 AM–9:15 AM Utilization of Ultrasound Guidance in the Performance of Lumbar Punctures in Pediatric Patients
Fernando Lopez, MD

9:15 AM–9:45 AM Transcranial Doppler Ultrasound in the Acute Care Setting
Lisa Lowe, MD

9:45 AM–10:15 AM Head, Ocular, and Optic Nerve Sheath Ultrasound in the Pediatric Emergency Department
James Tsung, MD

Hands-on Applications of Therapeutic Ultrasound: Physical Effects, Practical Methods and Their Relationship to Diagnostic Imaging

Grand Canyon 8

THERA

HFI

BSI

B&A

Moderators: Keith Wear, PhD, and Maggie Zhang, MD, PhD

Ultrasound has a long, well-known history of use in medicine for diagnostic imaging applications. It has an even longer history of use in physical therapy for musculoskeletal disorders. In recent years, the medical application of ultrasound has expanded into new applications. Ultrasound is being used, either by itself or in combination with drugs, in the treatment of diabetes, stroke, cancer, cardiovascular diseases, infections, osteoporosis, thrombosis, glaucoma, nerve damage, aging skin, wounds, muscle spasms, and bone fractures. Some of these treatments have already been approved by the US Food and Drug Administration for clinical use, whereas others are at various stages of development. The amazing versatility of ultrasound in medical therapies lies in the multiplicity of its interactions with cells, membranes, and tissues. This session will provide hands-on presentations showing how ultrasound can affect tissues, with industry partners in various stages of commercial development of their systems. Demonstrations will include ultrasound-assisted thrombolysis of bovine blood clots, ultrasound-mediated transdermal drug delivery, and high-intensity focused ultrasound surgical ablation.

- 8:15 AM–8:45 AM Microbubble and Ultrasound Enhancement of Radiation-Induced Tumor Cell Death In Vivo (Ultrasound Physics)
Gregory Czarnota, MD, PhD
- 8:45 AM–9:05 AM Hands-on Demonstrations of Ultrasound Physics and Therapy
J. Brian Fowlkes, PhD, George Lewis, PhD, and Maggie Zhang, MD, PhD
- 9:05 AM–9:35 AM Microbubbles in Ultrasound: Their Role Beyond Contrast Agents (Therapeutic Applications)
Christy Holland, PhD
- 9:35 AM–10:05 AM Clinical Safety and Monitoring in Therapeutic Ultrasound Procedures
Srirambelaji Shunmugavelu, PhD
- 10:05 AM–10:15 AM Questions and Answers

New Techniques in Biopsy Combined With New Materials

Grand Sonoran J-K

IVIO

B&A

SONO

Moderator: Corinne Deurdulian, MD

Attendees will be able to (1) understand the newer techniques using sonographic and computed tomographic fusion and sonographic and magnetic resonance imaging fusion and (2) understand and become familiar with the newer needles and catheters and various kits used currently for biopsy.

- 8:15 AM–8:55 AM The Procedure Patient: Preparation, Coagulation, and Management
Corinne Deurdulian, MD
- 8:55 AM–9:35 AM When to Choose an Ultrasound Procedure
David Madoff, MD
- 9:35 AM–10:15 AM The Role of Ultrasound Fusion in Interventions: What's New?
Hisham Tchelepi, MD

Pregnancies in Unusual Places

Grand Sonoran G

GYN

OB

SONO

B&A

ERCC

Moderator: Peter Doubilet, MD, PhD

This session will present a review of 645 cases in the literature using 28 different treatment approaches, including 89 misdiagnoses and 245 severe complications, many ending with laparotomies and hysterectomies. Our own experience with 24 such pregnancies and successful and uncomplicated local intragastric puncture injections of methotrexate with transvaginal sonographic guidance will be included.

- 8:15 AM–8:55 AM Local Injections of Cesarean Section Scar Pregnancies: Diagnosis and Management
Ilan Timor-Tritsch, MD
- 8:55 AM–9:35 AM The Cesarean Scar Pregnancy Epidemic: A Single-Center Experience
Ana Monteagudo, MD, RDMS
- 9:35 AM–10:15 AM Local Injections of Ectopic Pregnancies
Peter Doubilet, MD, PhD

Transplant Imaging

Grand Canyon 3–5

B & A

SONO

CARDIO

Moderators: Erin Doudt, MD, and Vikram Dogra, MD

This session will describe the techniques of imaging in liver and renal transplants, discuss the complications of liver transplants, discuss the role of duplex Doppler imaging in pancreas transplants, and discuss the complications of renal transplants and their interpretation.

- 8:15 AM–8:45 AM Pancreas Transplants
Edward Bluth, MD
- 8:45 AM–9:15 AM Imaging Technique for Liver Transplants and Doppler
Techniques
Nancy Carson, MD
- 9:15 AM–9:45 AM Ultrasound Evaluation of Vascular Complications of Liver
Transplant Recipients
Leslie Scoutt, MD
- 9:45 AM–10:15 AM Vascular Complications of Renal Transplants
Ulrike Hamper, MD

Ultrasound of Hernias and the Hip

Grand Canyon 7

MSK

B & A

SONO

Moderator: Marnix van Holsbeeck, MD

After this session, attendees will know how and when to perform musculoskeletal ultrasound examinations to evaluate sports hernias, inguinal hernias, and hip pathology.

- 8:15 AM–10:15 AM Ultrasound of Hernias and the Hip: Lecture and
Live Demonstration
Marnix van Holsbeeck, MD



9:00 AM–10:00 AM

Ultrasound in Medical Education Interest Group Meeting

Desert Suite II

See page 156 for details.



8:15 AM–9:15 AM

Exhibitor Advisory Council Meeting

Desert Suite VIII



9:15 AM–10:15 PM

Sound Judgment–Clinical Vignette Task Force Meeting

Desert Suite VII



10:00 AM–11:00 AM

Ultrasound in Global Health Interest Group Meeting

Desert Suite III

See page 154 for details.



10:15 AM–10:45 AM

Refreshment Break in the Exhibit Hall



10:45 AM–12:30 PM

Oral Sessions

Learn about the latest research in ultrasound in concise 7-minute presentations;
* indicates presenter.

BSI

Basic Science: Tissue Characterization

Grand Sonoran E

Moderators: Ernest Feleppa, PhD, and James Zagzebski, PhD

10:45 AM–10:52 AM

1236548 A Novel Nonlinear Analysis in Ultrasound Elasticity Imaging of Edema and Fibrosis in Crohn's Disease

Rubin, Jonathan*; Xu, Jingping; Tripathy, Sakya; Stidham, Ryan; Johnson, Laura; Higgins, Peter; Kim, Kang

10:52 AM–10:59 AM

1241624 Comparison Between 3-Dimensional B-Mode, Acoustic Radiation Force Impulse, and Magnetic Resonance Human Prostate Image Volumes In Vivo

Nightingale, Kathy*; Hsu, Christina; Rosenzweig, Stephen; Rouze, Ned; Palmeri, Mark; Gupta, Rajan; Kulbacki, Evan; Madden, John; Polascik, Thomas

10:59 AM–11:06 AM

1240546 Photoacoustic Imaging for Prostate Cancer Detection: Preliminary Results

Dogra, Vikram; Bhatt, Shweta; Chinmi, Bhargava; Valluru, Keerthi*; Rao, Navalgund, Ghazi, Ahmed; Yao, Jorge; Joseph, Jean

11:06 AM–11:13 AM

1235024 Clinical Potential of 3-Dimensional High-Frequency Quantitative Ultrasound for the Detection of Metastases in Lymph Nodes of Colorectal and Gastric Cancers

Saegusa-Beecroft, Emi*; Mamou, Jonathan; Machi, Junji; Hata, Masaki; Coron, Alain; Yanagihara, Eugene; Oelze, Michael; Yamaguchi, Tadashi; Laugier, Pascal; Feleppa, Ernest

11:13 AM–11:20 AM

1241282 Detection of Layers of Aligned Collagen in Human Cervical Tissue Using Ultrasound

Reusch, Lisa*; Feltovich, Helen; Carlson, Lindsey; Dahl, Jeremy; Palmeri, Mark; Eliceiri, Kevin; Hall, Timothy

11:20 AM–11:27 AM

1241423 Quantitative Characterization of In Vivo Breast Masses Using Ultrasound Attenuation and Backscatter

Nam, Kibo*; Zagzebski, James; Hall, Timothy

11:27 AM–11:34 AM

1229416 Quantitative Breast Tissue Characterization With Inverse Scattering Using TechniScan's Whole-Breast Ultrasound Scanner
*Wiskin, James**; Borup, David; Andre, Michael; Ojeda-Fournier, Haydee; Olson, Linda; Johnson, Steve

11:34 AM–11:41 AM

1241347 Comparison of Features Derived From Full-Shear and Axial-Shear Strain for Breast Mass Classification
*Xu, Haiyan**; Varghese, Tomy; Madsen, Ernest

11:41 AM–11:48 AM

1241406 High-Resolution Imaging of Breast Microcalcifications With a Real-time Synthetic-Aperture Ultrasound System
*Huang, Lianjie**; Labyed, Yassin; Sandoval, Daniel; Heintz, Philip; Rosenberg, Robert; Williamson, Michael

11:48 AM–11:55 AM

1241363 Nonlinear Elasticity Imaging for Breast Cancer Diagnosis
*Oberai, Assad; Barbone, Paul; Hall, Timothy**; Goenezen, Sevan; Dord, Jean-Francois; Sink, Zac; Jiang, Jingfeng

11:55 AM–12:02 PM

1240791 Assessing Individual Myocardial Structure With Echocardiographic Backscatter
*Milne, Michelle**; Singh, Gautam; Miller, James; Holland, Mark

12:02 PM–12:09 PM

1240855 Echocardiographic Tissue Characterization Measurements of the Right Ventricle Discriminate the Need for Respiratory Support in Premature Infants
*Levy, Philip**; Holland, Mark; Singh, Gatuum; Hamvas Aaron

ERCC

Emergency and Critical Care Ultrasound 2

Grand Canyon 7

Moderator: Michael Blaivas, MD

10:45 AM–11:00 AM

Luminary Speaker: Michael Blaivas, MD

11:00 AM–11:07 AM

1229686 Bumps: Bedside Ultrasound Maximizes Patient Satisfaction
*Howard, Zoe**; Noble, Vicki; Sajed, Dana; Bertuzzi, Bianca; Rodrigues, Marcio; Liteplo, Andrew

11:07 AM–11:14 AM

1162975 Emergency Department Patients Evaluated by Bedside Biliary Ultrasonography: Does Radiology Ultrasonography Alter the Disposition?
*Conway, Daniel**; *Baden, Eric*; *Anderson, Kenton*; *Summers, Shane*; *Dufresne, Gary*

11:14 AM–11:21 AM

1239655 Emergency Department Training of Ultrasound-Guided Peripheral Vascular Access Effectively Prioritizes Utilization of Central Venous Catheterization
*Shokoohi, Hamid**; *Boniface, Keith*; *Yadav, Kabir*; *McCarthy, Melissa*; *Khedir Al-Tiae, Tareq*; *Sattarian, Mehdi*; *Liu, Yiju*; *Teresa, Schoenfeld, Elizabeth*

11:21 AM–11:28 AM

1235891 Emergency Department (ED) Pelvic Ultrasound Reduces the ED Length of Stay Compared to Radiology Pelvic Ultrasound
Chan, Connie; *Chiem, Alan**; *Ibrahim, Deena*; *Maldonado, Graciela*; *Anderson, Craig*; *Vandordaklou, Negean*; *Wu, Daniel*; *Gilani, Chris*; *Williams, Marcus*; *Fox, J. Christian*

11:28 AM–11:35 AM

1217174 Soft Tissue Ultrasound Is More Detailed Than Computed Tomography for Superficial Abscesses
*Gaspari, Romolo**; *Dayno, Matthew*; *Helland, Gregg*

11:35 AM–11:42 AM

1162503 Comparison of Serial Qualitative and Quantitative Assessments of the Caval Index and Left Ventricular Systolic Function During Acute Volume Loading of Hypotensive Emergency Department Patients
*Weekes, Anthony**; *Tassone, Heather*; *Babcock, Alan*; *Quirke, Dale*; *Norton, H. James*; *Jayarama, Krishnaraj*; *Tayal, Vivek*

11:42 AM–11:49 AM

1240807 Identification of Pulmonary Edema on Lung Ultrasound Versus Chest Radiography
Martindale, Jennifer; *Noble, Vicki*; *Liteplo, Andrew**

11:49 AM–11:56 AM

1240710 Effect of Weight-Based Volume Loading on the Inferior Vena Cava in Fasting Subjects: A Randomized Prospective Double-Blind Trial
*Lewis, Margaret**; *Weekes, Anthony*; *Kahler, Zachary*; *Stader, Donald*; *Quirke, Dale*; *Norton, H. James*; *Almond, Courtney*; *Middleton, Dawn*; *Zhou, Jie*; *Tayal, Vivek*

11:56 AM–12:03 PM

1241281 A Prospective Blinded Analysis of Single-Operator Optic Nerve Sheath Diameter Measurement for Elevated Intracranial Pressure
Rosen, Sasha; Frumin, Erica; Rosen, Mark; Fox, J. Christian; Wiechmann, Warren; Maldonado, Graciela; Hata, Stacey*

12:03 PM–12:10 PM

1238517 Accuracy of Point-of-Care Ultrasound for Detecting Hydronephrosis in Suspected Renal Colic
Rosenberg, Graeme; Herbst, Meghan; Moore, Christopher*

12:10 PM–12:17 PM

1157747 Bedside Ultrasound Evaluation of Lung Infiltrates
Cohen, Stephanie; Sivitz, Adam*

GYN **Gynecology (Including Ectopic Pregnancy)**

Grand Canyon 8

Moderator: Steven Goldstein, MD

10:45 AM–11:00 AM

Luminary Speaker: Steven Goldstein, MD

11:00 AM–11:07 AM

1229012 Unilateral Versus Bilateral Polycystic Ovarian Syndrome (PCO): A Prospective Study of Infertility Patients Comparing Those With Unilateral, Bilateral, and No PCO With Regard to Body Mass Index and Cycle Regularity.
Hartman, Alex

11:07 AM–11:14 AM

1229000 Müllerian Duct Anomalies (MDAs) and Miscarriages: A Prospective Study of the Association Between Miscarriages and MDAs Using Strict Criteria in Patients With Secondary Infertility
Hartman, Alex; Hartman, Jason*

11:14 AM–11:21 AM

1228332 Utility of Color Doppler in the Evaluation of the Endometrium: A Correlational Study Between Sonography and Pathology
Runner, Gabriel; Gerscovich, Eugenio; McGahan, John; Fodor, Alex; Shakeri, Sharikh; Hemlata, Oswal*

11:21 AM–11:29 AM

1241458 Does Anti-Müllerian Hormone Correlate With Embryo Morphology in In Vitro Fertilization Cycles?
*Singer, Tomer; Noel, Martha; Huang, Jack; Zaninovic, Nikica; Davis, Owen; Rosenwaks, Zev; Lekovic-Bijelic, Jovana**

11:29 AM–11:36 AM

1223181 Ovarian Fibromas and Fibrothecomas: Ultrasound Correlation With Computed Tomography and Magnetic Resonance Imaging—A 5-Year Single-Institution Experience
Khong, Kathleen; Yen, Philip; Gerscovich, Eugenio; Lamba, Ramit*



11:36 AM–11:43 AM

1229015 Is a Large Arcuate Uterus More Detrimental Than a Small One? How Important Is an Arcuate Uterus? A Prospective Study of 1280 Consecutive Patients With Secondary Infertility
Hartman, Alex

11:43 AM–11:51 AM

1228991 Müllerian Duct Anomalies: A Prospective Study of General Characteristics of Patients With Uterine Malformations
Hartman, Alex; Hartman, Jason*

11:51 AM–11:58 AM

1241352 Three-Dimensional Endovaginal Ultrasonography of Vulvovaginal Cysts and Masses
Shobeiri, S. Abbas; Quroz, Lieschen*

11:58 AM–12:05 PM

1169939 Letrozole Use in Breast Cancer Patients Undergoing Fertility Preservation In Vitro Fertilization Is Associated With Lower Estradiol Levels but a Similar Oocyte Yield and Endometrial Thickness
Singer, Tomer; Huang, Jack; Lekovic-Bijelic, Jovana; Zakarin, Lauren; Schattman, Glenn; Spandorfer, Steven; Rosenwaks, Zev*



12:05 PM–12:12 PM

1241303 Intermenstrual Bleeding Versus Menorrhagia: A Prospective Study Comparing Ultrasound Findings in 4811 Consecutive Premenopausal Patients
Hartman, Alex; Lee, Rose; Hartman, Jason*

OB **Obstetrics: General**

Grand Canyon 6

Moderator: Jude Crino, MD

10:45 AM–11:00 AM

Luminary Speaker: Jude Crino, MD

11:00 AM–11:07 AM

1237341 **Isolated Short Femur Length on Midtrimester Ultrasound: A Marker for Intrauterine Growth Restriction and Other Adverse Perinatal Outcomes**
*Goetzinger, Katherine**; Cahill, Alison; Macones, George; Odibo, Anthony

11:07 AM–11:14 AM

1240593 **Role of the Second-Trimester Genetic Sonogram After First-Trimester Screening**
*Shamshirsaz, Alireza**; Benn, Peter; Borgida, Adam; Janicki, Mary Beth; Campbell, Winston; Ravangard, Samadeh; Turner, Gary; Shamshirsaz, Amirhoushang; Zelop, Carolyn; Feldman, Deborah; Ingardia, Charles; Fang, Yu Ming; Prabulos, Ann Marie; Fuller, Kisti; Gurrarn, Padmalantha; Sadowski, Allison; Billstrom, Rachel; Egan, James

11:14 AM–11:21 AM

1238349 **Screening for Open Spina Bifida in Conjunction With Nuchal Translucency Ultrasound at 11 to 13 Weeks' Gestation: A Feasibility Study**
*Fong, Katherine**; Dengler, Jana; Okun, Nanette; Menezes, Ravi; Karimzad, Yasser; Flores, Shirley; Chitayat, David; Toi, Ants

11:21 AM–11:28 AM

1240045 **Is There an Association Between Nuchal Translucency and Glucose Intolerance?**
*Miller, Emily**; Eppes, Catherine; Wong, Amy; Nelson, LaTasha

11:28 AM–11:35 AM

1241506 **Does the Number of Providers Within a Practice Influence the Quality of Nuchal Translucency Measurements? Experience of the Nuchal Translucency Quality Review Program**
*Bromley, Bryann; Spitz, Jean**; Thornburg, Lorelei; Toland, Gregory; Benacerraf, Beryl; Platt, Lawrence; Fuchs, Karin; D'Alton, Mary

11:35 AM–11:42 AM

1243570 Can Initial Credentialing and Practice Parameters Predict Providers Assigned to Required Quality Maintenance? Experience of the Nuchal Translucency Quality Review Program
Bromley, Bryann; Spitz, Jean; Thornburg, Lorelei; Toland, Gregory; Benacerraf, Beryl; Fuchs, Karin; Platt, Lawrence; D'Alton, Mary*

11:42 AM–11:49 AM

1241031 Borderline Amniotic Fluid Volumes Do Not Forewarn Fetal Intolerance of Labor
Newton, J.; Wood, S. Lindsay; Lesser, Karen*

11:49 AM–11:56 AM

1225744 State Abortion Laws: More Laws Incorporating and Regulating Diagnostic Ultrasound?
Alexander, Archie

11:56 AM–12:03 PM

1238970 The Birds and the Beans: A Low-Fidelity Simulator for Chorionic Villus Sampling Skill Acquisition
Wax, Joseph; Cartin, Angelina; Byers, Susan; Leblanc, Lynda; Daigle, Naithan; Pinette, Michael*

12:03 PM–12:10 PM

1241925 Sonographic Evaluation of Abnormal Patterns of Fetal Cerebral Lamination in Type 1 Lissencephaly
Pugash, Denise; Dunham, Christopher*

12:10 PM–12:17 PM

1241910 Fetal Brain Injury: Antenatal Imaging and Associated Risk Factors
Pugash, Denise

THERA Therapeutic Ultrasound

Grand Canyon 1–2

Moderators: Kullervo Hynynen, PhD, and Maggie Zhang, PhD

10:45 am–11:00 am

Luminary Speaker: Kullervo Hynynen, PhD

11:00 AM–11:07 AM

1240541 Acute Ischemic Stroke Treatment With an Ultrasound Imaging System
*Shi, William; Gao, Shunji; Vignon, Francois; Liu, Jinjin; Powers, Jeff; Xie, Feng; Drvol, Lucas; Lof, John; Porter, Thomas; Seip, Ralf**

11:07 AM–11:14 AM

1240635 Effect of Mechanical Properties of Material on the Dimensions of Ultrasound Histotripsy Lesions
*Xu, Jin**; Bigelow, Timothy; Davis, Gabriel

11:14 AM–11:21 AM

1240555 Cell Patterning and Vascularization of Engineered Tissue Using Ultrasound Standing Wave Field Technology
*Garvin, Kelley**; Carvalho, Jasmine; Hocking, Denise; Dalecki, Diane

11:21 AM–11:28 AM

1240746 Synergistic Effects of Ultrasound-Activated Microbubbles and Doxorubicin on Short-term Survival of Mouse Mammary Tumor Cells
*Ghoshal, Goutam**; Oelze, Michael; Swat, Stanley

11:28 AM–11:35 AM

1231650 Ultrasound Alters Collagen Fiber Structure Within Engineered Tissue
Garvin, Kelley; Hocking, Denise; Dalecki, Diane

11:35 AM–11:42 AM

1240798 Enhanced Gene Expression of Plasmid DNA in the Liver With Ultrasound and Microbubbles
*Raju, Balasundar; Leyvi, Evgeniy; Seip, Ralf**; Sethuraman, Shriram; Shi, William; Li, Songtao; Koeberl, Dwight

11:42 AM–11:49 AM

1240909 Magnetic Resonance Imaging–Guided High-Intensity Focused Ultrasound Neurosurgery Using Inertial Cavitation to Perform Third Ventriculostomy
*Alkins, Ryan**; Huang, Yuxi; Hynynen, Kullervo

11:49 AM–11:56 AM

1240876 A Conditioning Pulse Improves the Efficiency and Predictability of Histotripsy Lesions
*Bigelow, Timothy**; Riesberg, Grant; Xu, Jin

11:56 AM–12:03 PM

1249993 Microbubble and Ultrasound Enhancement of Radiation-Induced Tumor Cell Death In Vivo
*Czarnota, Gregory**; Karshafian, Raffi; Giles, Anoja; Iradji, Sara; Wong, Emily; Al Mahrouki, Azza

12:03 PM–12:10 PM

1241375 Hemorrhage Near Opossum Skull Exposed To Pulsed Ultrasound and Correlation With Total Energy
*Kumar, Viksit**; Bigelow, Timothy; Mullin, Kathleen; Sakaguchi, Donald

 **10:45 AM–12:30 PM**
Special Interest Session

 **Hands-on: How to Do the Biopsy**

Grand Canyon 9-13

IVD B&A

Moderator: Dean Nakamoto, MD

Attendees will be able to (1) learn how to do prebiopsy preparations; (2) understand and get hands-on experience with the techniques of doing biopsies of soft tissue masses, thyroid nodules, breast masses, the liver, and kidneys; and (3) learn how to detect and manage complications.

10:45 AM–12:30 PM Hands-on Scanning
Nami Azar, MD, Shweta Bhatt, MD, Wui Chong, MD, Corinne Deurdulian, MD, Vikram Dogra, MD, Mark Lockhart, MD, Wendy Musson, RVT, RDMS, Margaret Mendick, RDMS, Dean Nakamoto, MD, Raj Mohan Paspulati, MD, Deborah Rubens, MD, and Rajesh Sharma, MD


 **11:00 AM–12:00 PM**
Elastography Interest Group Meeting

Desert Suite II

See page 153 for details.

 **12:30 PM–1:30 PM**
Community of Practice Council Meeting

Desert Suites IV–VI

 **12:30 PM–1:30 PM**
Lunch in the Exhibit Hall



12:30 PM–1:30 PM

Scientific E-Poster Discussions

New! All scientific posters presented are displayed on monitors. Peruse a variety of posters throughout the convention. See Scientific E-Posters tab for more information.

Contrast Agents • High-Frequency Clinical and Preclinical Imaging • Interventional–Intraoperative Ultrasound

Grand Canyon 1–2

Emergency and Critical Care Ultrasound • Gynecologic Ultrasound

Grand Canyon 6

General and Abdominal Ultrasound • Pediatric Ultrasound • Neurosonology • Cardiovascular Ultrasound

Grand Canyon 3–5



1:30 PM–3:30 PM

Executive Committee Meeting

President Boardroom



1:30 PM–3:30 PM

Special Interest Sessions



Advanced Obstetric Ultrasound

Grand Canyon 9–13

OB

SONO

Moderator: Jude Crino, MD

This session is appropriate for those with experience in advanced-level obstetric ultrasound or who have attended the advanced-level hands-on session in the afternoon. Participants will scan second-trimester pregnant models with supervision by sonographer and physician experts. The class size will be limited to 3 students per instructor. Skills taught in this advanced-level session include detailed fetal anatomy, Doppler velocimetry, and basic 3- and 4-dimensional techniques.

1:30 PM–3:30 PM Hands-on Scanning

Julia Solomon, MD, Christina Bird, BS, RDMS, RVT, Kathleen Bradley, MD, Jenice Gonyea, RDMS, RTR, Joseph Wax, MD, Sharon Horton, RDMS, RT, Luis Izquierdo, MD, and Celeste Sheppard, MD

Designing and Implementing Point-of-Care Ultrasound Research From Basic to Advanced: What Areas Are Key to Study?

Grand Canyon 8

EPCC

B&A

IVIO

Moderator: *Michael Blaivas, MD*

This session will discuss a logical approach to designing point-of-care ultrasound research projects, from short resident and fellow studies to multiyear and multicenter prospective and controlled trials. Lecturers will discuss program implementation and growth, strategies for successful research design, and how to get published. A panel discussion, including audience questions, will follow with the best published and most experienced researchers in the field.

- 1:30 PM–2:00 PM Point-of-Care Ultrasound Research Strategies
Michael Blaivas, MD
- 2:00 PM–2:30 PM Getting at Accuracy: Standards for Reporting of Diagnostic Accuracy Criteria, Reference Standards, Interobserver Reliability, Methodologic Problems With Diagnostic Testing, and Identifying Confounded Variables
James Tsung, MD
- 2:30 PM–3:00 PM Methods for Evaluating Learning Curves in Point-of-Care Ultrasound Research
Srikar Adhikari, MD
- 3:00 PM–3:30 PM Demonstrating Improved Outcomes and Cost-effectiveness in Point-of-Care Ultrasound Research
Vicki Noble, MD

Renal Artery Doppler Evaluation

Grand Canyon 7

B&A

SONO

CARDIO

Moderators: *Shweta Bhatt, MD, and Mark Lockhart, MD, MPH*

This session will describe the technique of renal artery Doppler evaluation and help attendees understand the pitfalls of the technique. Attendees will also have an opportunity to perform the examination on actual patients, guided by experts.

- 1:30 PM–2:00 PM Renal Artery Doppler Techniques
Mani Montazemi, RDMS
- 2:00 PM–2:30 PM Renal Doppler Evaluation in Renal Transplant Patients
Mark Lockhart, MD, MPH
- 2:30 PM–3:00 PM Evaluation of Hypertensive Patients and Role of Renal Doppler Evaluation
Shweta Bhatt, MD
- 3:00 PM–3:30 PM Doppler Interpretation of the Renal Artery
Michelle Robbin, MD

High-Frequency Preclinical and Small-Animal Imaging Studies

Grand Canyon 1-2

HFI

BSI

Moderator: Gregory Czarnota, PhD, MD

High-frequency ultrasound has become a very powerful preclinical tool. Previously, it was used primarily in ophthalmology and dermatology; it is now used for many more applications. Recent developments permit its use for tissue characterization, response monitoring, blood circulation studies, as well as small-animal embryology and preclinical disease models. The objective of this session is to present and review the state of the art in technology and data analysis for high-frequency preclinical imaging and to discuss the future directions for biomedical research in high-frequency preclinical imaging.

- 1:30 PM–2:00 PM High-Frequency Ultrasonic Characterization of Developing Fetal Pig Hearts
Mark Holland, PhD
- 2:00 PM–2:30 PM Microbubble Contrast Ultrasound to Monitor In Vivo Tumor Perfusion in Response to Notch Pathway Inhibitors
Stanley Liu, MD, PhD
- 2:30 PM–3:00 PM High-Frequency Ultrasound Biomicroscopy Combined With Modeling of Wave Backscattering to Assess Mechanical Properties of Red Blood Cell Aggregates: A Surrogate Marker of Inflammation
Guy Cloutier, PhD
- 3:00 PM–3:30 PM Mouse Cardiovascular Imaging Using High-Frequency Ultrasound: Techniques and Applications
Yu-Qing Zhou, MD, PhD

Should Cardiac Measurements Be Obtained Routinely When Evaluating the Fetal Heart?

Grand Canyon 6

FE

OB

SONO

G&A

Moderator: Gregory DeVore, MD

The objective of this session is to discuss whether cardiac measurements should be obtained routinely when evaluating the fetal heart. Various approaches will be debated and reviewed.

- 1:30 PM–2:00 PM Spectral Doppler Ultrasound: Pro
Jack Rychik, MD
- 2:00 PM–2:30 PM Spectral Doppler Ultrasound: Con
Jay Pruetz, MD
- 2:30 PM–3:00 PM Two-Dimensional Biometry of the Fetal Heart: Pro
Gregory DeVore, MD
- 3:00 PM–3:30 PM Two-Dimensional Biometry of the Fetal Heart: Con
Joshua Copel, MD

Ultrasound Image-Guided Therapy

Grand Canyon 3-5

BSI

THERA

B&A

SONO

Moderators: Michael Oelze, PhD, and Keith Wear, PhD

This session will review the technology and clinical applications of ultrasound image-guided therapy.

- 1:30 PM–1:35 PM Introduction
- 1:35 PM–1:55 PM Image Fusion-Guided Therapies
Nadine Abi-Jaoudeh, MD
- 1:55 PM–2:15 PM Treatment Feedback for Ultrasound-Mediated Drug and Gene Delivery
Ralf Seip, PhD
- 2:15 PM–2:35 PM Real-time Guidance and Monitoring of Lesion Formation Using Dual-Mode Ultrasound Arrays
Emad Ebbini, PhD
- 2:35 PM–2:55 PM Quantitative Ultrasound Guidance of Focal Treatment of Prostate Cancer
Ernest Feleppa, PhD
- 2:55 PM–3:15 PM Acoustic Radiation Force Impulse and Strain Imaging Guidance of Cardiac Ablation Procedures Using Intracardiac Echocardiographic Probes
Gregg Trahey, PhD
- 3:15 PM–3:30 PM Questions and Answers



3:45 PM–4:15 PM

AIUM Business Meeting

Wildflower C



4:30 PM–7:00 PM

Board of Governors Meeting

Desert Suites IV-VI

If You Don't Tell Us, How Will We Know? Complete Your Evaluation Form!

This is your chance to tell us what you think about the sessions you attended and the programs you want in the future. Your opinion is important; our planning committee reads each evaluation! We need real advice from real people in the field, and that is why we count on you to complete your evaluation. Your feedback will help us plan future activities that meet your educational needs.

An e-mail will be sent to you to complete the convention evaluation.



AIUM Accreditation Booth

Learn more about AIUM ultrasound practice accreditation at the Accreditation Booth in the Ballroom Foyer, Level 1. Accreditation staff are available to answer your questions.

AIUM RESOURCE CENTER



Ballroom Foyer • Level 1

Attention convention attendees! Between sessions and throughout the convention, stop by the AIUM Resource Center to check out all of the products that the AIUM has to offer. Members receive up to a 50% discount on most products, including ultrasound-related publications, pamphlets, CME DVD programs, merchandise, and more.

Stop by for special on-site discounts on select DVD programs.

Thursday, March 29

8:00 AM–4:30 PM

Friday, March 30

8:00 AM–4:30 PM

Saturday, March 31

8:00 AM–4:30 PM

Sunday, April 1

8:00 AM–2:00 PM