

AMERICAN INSTITUTE OF ULTRASOUND IN MEDICINE AND
WORLD FEDERATION FOR ULTRASOUND IN MEDICINE AND BIOLOGY

AIUM Annual Convention & Preconvention Program hosting WFUMB Congress



*Learn and connect with colleagues
from around the world*

Preliminary Program

NEW! Registration accepted online only.

Visit www.aium.org for the most up-to-date
convention information.

aium 2015
hosting **WFUMB**

MARCH 21-25



#aium15

WALT DISNEY WORLD SWAN AND DOLPHIN RESORT
LAKE BUENA VISTA, FLORIDA, USA

2015 Preliminary Schedule at a Glance

Saturday, March 21, 2015

- 6:30 AM–5:00 PM Preconvention Program Registration Open
7:30 AM–5:00 PM Preconvention Program
5:00 PM–6:30 PM AIUM Presidential Reception for New Members and Leadership *(by invitation only)*

Sunday, March 22, 2015

- 7:00 AM–4:00 PM Convention Registration Open
8:00 AM–9:30 AM Special Interest Sessions
8:00 AM–9:30 AM Hands-on Special Interest Sessions
9:45 AM–11:30 AM Opening/Awards Session/AIUM Business Meeting
11:30 AM–1:00 PM Grand Opening Luncheon in the Exhibit Hall
1:00 PM–3:00 PM Special Interest Sessions
Hands-on Special Interest Session
Community Meeting
3:00 PM–3:30 PM Refreshment Break in the Exhibit Hall
3:30 PM–5:30 PM Special Interest Sessions
Hands-on Special Interest Session
Community Meetings

Monday, March 23, 2015

- 6:00 AM–4:00 PM Convention Registration Open
7:00 AM–8:00 AM Just Images and Comprehensive Refresher Sessions
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–12:00 PM Special Interest Sessions
Scientific Sessions
Just Images Sessions
Film Panel Session
12:00 PM–1:00 PM Lunch in the Exhibit Hall
1:00 PM–3:00 PM Special Interest Sessions
Hands-on Special Interest Session
3:00 PM–3:45 PM Community Meetings
3:45 PM–5:30 PM Film Panel Sessions
Special Interest Sessions
Scientific Sessions
Community Meeting
5:30 PM–6:30 PM Community Meetings
7:00 PM–10:00 PM Dinner and Karaoke

Tuesday, March 24, 2015

- 6:00 AM–4:00 PM Convention Registration Open
7:00 AM–8:00 AM Just Images and Comprehensive Refresher Sessions
8:15 AM–10:15 AM Special Interest Sessions
Hands-on Special Interest Session
Three- and Four-Dimensional Volume Data Set Manipulation: Gynecology
Community Meeting
10:15 AM–10:45 AM Refreshment Break in the Exhibit Hall
10:30 AM–12:30 PM Three- and Four-Dimensional Volume Data Set Manipulation: Obstetrics
10:45 AM–12:00 PM Special Interest Session
Scientific Sessions
Film Panel Session
12:00 PM–1:00 PM Lunch in the Exhibit Hall
1:00 PM–3:00 PM Special Interest Sessions
Three- and Four-Dimensional Volume Data Set Manipulation: Obstetrics
Hands-on Special Interest Session
3:00 PM–3:45 PM Refreshment Break in the Exhibit Hall
Community Meetings
3:30 PM–5:30 PM Three- and Four-Dimensional Volume Data Set Manipulation: Fetal Echocardiography
3:45 PM–5:30 PM Special Interest Sessions
Comprehensive Refresher Session
Scientific Sessions
Community Meetings
7:00 PM–10:00 PM AIUM Leadership Banquet *(by invitation only)*

Wednesday, March 25, 2015

- 6:00 AM–3:00 PM Convention Registration Open
7:00 AM–8:00 AM Just Images and Comprehensive Refresher Sessions
8:15 AM–10:15 AM Special Interest Sessions
Hands-on Session
10:15 AM–10:45 AM Refreshment Break in the Exhibit Hall
10:45 AM–12:00 PM Special Interest Sessions
Scientific Sessions
Just Images Sessions
Film Panel Sessions
12:00 PM–1:00 PM Lunch in the Exhibit Hall
1:00 PM–3:00 PM Special Interest Sessions
3:00 PM Adjournment

Preliminary Program Table of Contents

2015 Preliminary Schedule at a Glance	2
General Information	4
Hotel Accommodations	4
Travel Assistance.....	4
What's Included With Your Registration.....	5
Exhibit Hall Hours	5
Community Meetings	6
Three- and Four-Dimensional Volume Data Set Manipulation Sessions.....	6
Committee Meetings.....	6
Hands-on Special Interest Sessions.....	6
Preconvention Program	7
Convention Special Events	8
Continuing Medical Education (CME) Credit Information.....	8
Special Interest Tracks	
– Basic Science and Instrumentation.....	9
– Cardiovascular Ultrasound	9
– Contrast-Enhanced Ultrasound.....	10
– Elastography.....	11
– Emergency and Critical Care Ultrasound	11
– Fetal Echocardiography	12
– General and Abdominal Ultrasound	13
– Gynecologic Ultrasound	14
– High-Frequency Clinical and Preclinical Imaging	15
– Interventional and Intraoperative Ultrasound	15
– Musculoskeletal Ultrasound	16
– Neurosonology	16
– Obstetric Ultrasound.....	17
– Pediatric Ultrasound	18
– Sonography	19
– Therapeutic Ultrasound	19
– Ultrasound in Global Health.....	20
– Ultrasound in Medical Education	20
– Ultrasound: Professional Development.....	20
French/Spanish Information.....	21
How to Register	23

AIUM Annual Convention & Preconvention Program hosting WFUMB Congress

MARCH 21–25

**WALT DISNEY WORLD SWAN AND DOLPHIN RESORT
LAKE BUENA VISTA, FLORIDA, USA**

Hosting WFUMB

For 2015, the American Institute of Ultrasound in Medicine (AIUM) has joined with the World Federation for Ultrasound in Medicine and Biology (WFUMB) to host *the* ultrasound meeting of the decade.

The AIUM/WFUMB Planning Committee has worked closely with AIUM Community leaders and with international ultrasound experts to ensure that the top speakers from across the globe will present the most up-to-date information for seasoned professionals in all disciplines, as well as those clinicians new to ultrasound.

WFUMB consists of 6 federations representing physicians, scientists, engineers, and sonographers in Europe, Asia, North America, Latin America, Africa, and Australia.

Working together, WFUMB and the AIUM have created a one-of-a-kind meeting at which you will have the opportunity to learn from renowned international speakers and network with colleagues from around the world.

With the speed at which this technology is changing and altering the practice of medicine, make sure you are not left behind.

We look forward to having you join us!

Earn up to 37.75 AMA PRA Category 1 Credits™ (accepted by the ARDMS) or ARRT Category A Credits.



General Information

Convention Registration Rates

Registration rates are payable with submission of the registration form. Convention registration rates cover attendance at sessions held Sunday, March 22, through Wednesday, March 25, 2015. (Three- and Four-Dimensional Volume Data Set Manipulation Sessions and Hands-on Special Interest Sessions have additional fees.) Registration will be accepted online only.

AIUM Member Registration Rates

To be eligible for AIUM member registration rates, membership must be current through the convention dates.

Spouse and Guest Registration

You may register a spouse/guest for \$220, which provides access to the Exhibit Hall and includes lunch each day.

Badges

For those attendees registering in advance, your badge and registration materials will be held for you at the AIUM/WFUMB Advance Registration Desk, located in Atlantic Hall B/C in the Walt Disney World Swan and Dolphin Resort.

Confirmation

Once your registration form, accompanied by full payment, is received, the AIUM Professional Development Department will send you a confirmation, e-mailed to you by Danielle Delanko, ddelanko@aium.org. After March 9, 2015, registration will be accepted on-site only.

Cancellations

Written cancellations must be received by January 9, 2015, to receive a refund of meeting registration fees minus a \$175 administrative fee. Cancellations after January 9, 2015, will not receive a refund. All cancellations must be received by the AIUM via fax or mail.

What to Wear

Attire at this year's convention is business casual. Please note that meeting rooms are air-conditioned, so prepare for all temperatures. Weather: average daily temperature in March is 78°.

Official Language

English is the official language of the 2015 AIUM/WFUMB convention.

Children

Educational Sessions—Due to the nature of the educational sessions, we do not encourage children to be present.

Exhibit Hall—Children may walk through the Exhibit Hall if they are accompanied by an adult who will assume responsibility for any damage to exhibits caused by the child. Children are not permitted in the Exhibit Hall during the exhibit setup and dismantlement period.

Smoking Policy

The Walt Disney World Swan and Dolphin Resort is a smoke-free environment.

Questions

If you have any questions about the AIUM Annual Convention and Preconvention Program hosting the WFUMB Congress, contact the AIUM Professional Development Department at **800-638-5352** or **301-498-4100** or via e-mail at conv_edu@aium.org.

Hotel Accommodations

Walt Disney World Swan and Dolphin Resort

1500 Epcot Resort Blvd
Lake Buena Vista, FL 32830 USA

Making Hotel Reservations

You must register for the convention before booking your hotel room. Information will be provided to you in your convention registration confirmation letter, which will be e-mailed to you by Danielle Delanko, ddelanko@aium.org. Rooms are on a first-come, first-served basis. Reservations, based on availability, must be made no later than February 27, 2015. Room rates: single/double, \$259, plus \$10 resort service package and applicable taxes.

Need assistance with your travel planning?



TRAVELSTORE
WE'VE BEEN WHERE YOU WANT TO GO

Jonathan Alder, ACC
Travel Planner

11601 Wilshire Blvd, Suite 300
Los Angeles, CA 90025 USA
310-752-9170

jonathan.a@travelstore.com

Photo ©Walt Disney World Swan and Dolphin

What's Included With Your Registration

The AIUM/WFUMB Planning Committee has worked hard to make your convention experience better than ever. This year, you'll find exceptional ultrasound educational programming, more delicious food and refreshment breaks, unparalleled opportunities to meet colleagues from around the world who are also enthusiastic about medical ultrasound, *plus so much more!*

Learning

- Attendance at any of the 130+ educational sessions from 18 different interest tracks, with courses specifically designed for beginners through advanced.
- The opportunity to earn up to 30.75 CME credits in 4 days.
- The chance to view more than 200 e-posters describing cutting-edge research.
- The chance to match wits with your peers by testing your knowledge with Cases of the Day. Don't forget to pick up your ribbon when you make the correct diagnosis.
- An electronic version of the 2015 *Official Proceedings*, which includes abstracts from more than 500 professionals who will be presenting courses, discussing their research, or who submitted e-poster presentations.
- Attendance at the Accreditation Tutorial to learn how easy and how important it is to have your practice accredited.

Exhibits

- More than 50 exhibitors where you can learn the latest in ultrasound technology and services.
- Live scanning in the Exhibit Hall—one of the best ways to learn proper scanning techniques.

Exhibit Hall Hours

Sunday, March 22	11:30 AM–4:30 PM
Grand Opening Luncheon	11:30 AM–1:00 PM
Refreshment Break	3:00 PM–3:30 PM
Monday, March 23	9:30 AM–1:30 PM
Refreshment Break	10:15 AM–10:45 AM
Lunch	12:00 PM–1:00 PM
Tuesday, March 24	9:30 AM–4:30 PM
Refreshment Break	10:15 AM–10:45 AM
Lunch	12:00 PM–1:00 PM
Refreshment Break	3:00 PM–3:45 PM
Wednesday, March 25	9:30 AM–1:00 PM
Refreshment Break	10:15 AM–10:45 AM
Lunch	12:00 PM–1:00 PM

Food and Refreshments

- A delicious lunch in the Exhibit Hall all 4 days.
- Five refreshment breaks with beverages and mouth-watering snacks.

Networking

- Meeting with colleagues in your specialty by attending 1 or more of the 18 Community and Interest Group meetings and the opportunity to help plan the 2016 convention.
- Mingling with ultrasound luminaries who present the Scientific Sessions.

Extra Conveniences

- The 2015 convention app, which creates a personalized schedule and more, so you get the most out of the convention.
- A backpack tote bag to carry all the brochures you collect, which you can use for years to come.
- Free Wi-Fi in the Exhibit Hall so you can check in with what's happening back home.

“First time at AIUM. Awesome meeting. Well organized. Best workshops.”

—2014 AIUM Annual Convention Attendee

Special Programs

Community Meetings

Sunday, March 22

- 1:00 PM–3:00 PM Ultrasound in Global Health
- 3:30 PM–5:30 PM General and Abdominal Ultrasound
Ultrasound in Medical Education

Monday, March 23

- 3:00 PM–3:45 PM Emergency and Critical Care Ultrasound
Neurosonology
Therapeutic Ultrasound
- 3:45 PM–5:30 PM Gynecologic Ultrasound
- 5:30 PM–6:30 PM Cardiovascular Ultrasound
Elastography
Obstetric Ultrasound
High-Frequency Clinical and Preclinical Imaging

Tuesday, March 24

- 8:15 AM–10:15 AM Fetal Echocardiography
- 3:00 PM–3:45 PM Contrast-Enhanced Ultrasound
Interventional-Intraoperative Ultrasound
Pediatric Ultrasound
Sonography
- 3:45 PM–5:30 PM Basic Science and Instrumentation
Musculoskeletal Ultrasound

Committee Meetings

Visit the AIUM website at www.aium.org for the committee meeting schedule, available **November 18, 2014**.

Three- and Four-Dimensional Volume Data Set Manipulation Sessions

Participate in small-group sessions led by renowned ultrasound professionals. Space is limited. Register early as these sessions will sell out quickly. Three- and Four-Dimensional Volume Data Set Manipulation Sessions are not included in the convention registration fee. The cost for these sessions is \$30 each.

Tuesday, March 24

- 8:15 AM–10:15 AM Gynecology
- 10:30 AM–12:30 PM Obstetrics
- 1:00 PM–3:00 PM Obstetrics
- 3:30 PM–5:30 PM Fetal Echocardiography

Dinner and Karaoke

Join us for Karaoke Live with dinner! Monday, March 23, from 7:00 PM–10:00 PM. Dreams do come true when you are the star of the show. Sing karaoke with a live band . . . this is your chance to SHINE! (Additional fee to attend.)



*Prizes awarded!
Get your group
together!*

Hands-on Special Interest Sessions

Participate in sessions on venous ultrasound, obstetric ultrasound, upper extremity joints, elastography, how to do the biopsy, peripheral nerves of the upper extremity, carotid and transcranial Doppler ultrasound, and pediatric diagnostic and therapeutic ultrasound. The cost for these sessions is \$50 each. Space is limited.

S1	Sunday, March 22	8:00 AM–9:30 AM	Venous Ultrasound: Emphasis on Reflux Testing and Calf Vein Imaging
S2	Sunday, March 22	1:00 PM–3:00 PM	Obstetric Ultrasound
S3	Sunday, March 22	3:30 PM–5:30 PM	Upper Extremity Joints (Shoulder, Elbow, and Wrist)
M1	Monday, March 23	8:15 AM–10:15 AM	Elastography
M2	Monday, March 23	1:00 PM–3:00 PM	How to Do the Biopsy
T1	Tuesday, March 24	8:15 AM–10:15 AM	Peripheral Nerves of the Upper Extremity
T2	Tuesday, March 24	1:00 PM–3:00 PM	Carotid and Transcranial Doppler Ultrasound
W1	Wednesday, March 25	8:15 AM–10:15 AM	Pediatric Diagnostic and Therapeutic Ultrasound

Preconvention Program

The 2015 AIUM/WFUMB Preconvention Program consists of 3 full-day courses covering musculoskeletal ultrasound, elastography, and fetal anomalies and 3 half-day courses covering advanced fetal cardiac examination, early pregnancy complications, and sonographic guidance of critical procedures.

For more details about the AIUM/WFUMB Preconvention Program, including course schedules or to register, visit the AIUM website at www.aium.org. Questions? Call 800-638-5352 or 301-498-4100.

Saturday, March 21

7:30 AM–5:00 PM

Full-Day Courses

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

▶ **Comprehensive Review of Musculoskeletal Ultrasound**

Moderators: Humberto Rosas, MD, Colin Strickland, MD
Speakers: Nathalie Bureau, MD, FRCP(C), Joseph Craig, MB ChB, Gandikota Girish, MBBS, Jon Jacobson MD, Humberto Rosas, MD, Colin Strickland, MD

On completion of this course, participants should have gained a basic understanding of when and how to perform musculoskeletal ultrasound to evaluate the shoulder, elbow, wrist, hip, knee, ankle, and foot.

▶ **Elastography: State of the Art, 2015**

Moderator: Richard Barr, MD, PhD
Speakers: Jeffrey Bamber, MD, Richard Barr, MD, PhD, Vito Cantisani, MD, Jean-Michel Correas, MD, PhD, David Cosgrove, MA, MSc, FRCP, FRCR, Zachary Domire, PhD, Giovanna Ferraioli, MD, Carlo Filice, PhD, Masatoshi Kudo, MD, PhD, Kazutaka Nakashima, MD, PhD, Mark Palmeri, MD, PhD

The course will cover all applications, including technical explanations as well as how to use elastography in the various applications and some high-level interpretation with live demonstrations of scanning techniques.

▶ **The Fetus: Five Top “Do Not Miss” Diagnoses**

Moderators: Phyllis Glanc, MDCM, BSC, FRCPC, Anne Kennedy, MBBCh, MRCP, FRCR

Speakers: Alfred Abuhamad, MD, Carol Benson, MD, Beverly Coleman, MD, Judy Estroff, MD, Wesley Lee, MD, Phyllis Glanc, MDCM, BSC, FRCPC, Anne Kennedy, MBBCh, MRCP, FRCR, Deborah Levine, MD, Giancarlo Mari, MD, MBA, Israel Meizner, MD, Aris Papageorshiou, MD, Rodrigo Ruano, MD, Gail ter Haar, MA, DSc, MSc, PhD, Ants Toi, MD

This course will review common fetal abnormalities in obstetric ultrasound from head to toe (excluding the fetal heart and nonfetal obstetrics); discuss differential diagnosis and management of challenging cases; and describe clues in diagnosis and adjuncts to ultrasound in the diagnosis of difficult fetal cases; we will ask for audience responses for diagnosis.

1:00 PM–5:00 PM

Half-Day Courses

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

▶ **Advanced Fetal Cardiac Examination**

Moderator: Wesley Lee, MD
Speakers: Wesley Lee, MD, Jack Rychik, MD, Wayne Tworetzky, MD, Vita Zidere, MD

This course will familiarize the audience with some of the more difficult diagnoses, their evaluation, and implications of imaging for counseling and prognosis.

▶ **Early Pregnancy Complications**

Moderator: Misty Blanchette Porter, MD
Speakers: Carol Benson, MD, Tom Bourne, MD, George Condous, MD, Peter Doubilet, MD, PhD

After attending this course, participants will know more about the following topics: developing criteria to define miscarriage; pregnancy of unknown viability; how to classify pregnancies of unknown location as low or high risk; tubal ectopic pregnancy—diagnosis, management, and case conundrums; the features of nontubal ectopic pregnancy diagnosis and management; and the psychological impact of early pregnancy events, selecting women for expectant, medical, and surgical management of ectopic pregnancies, including case examples of normal and aberrant first-trimester embryonic growth.

▶ **Sonographic Guidance of Critical Procedures**

Moderators: Eitan Dickman, MD, RDMS, Arun Nagdev, MD
Speakers: Richard Amini, MD, Christine Riguzzi Allison, MD, Christoph Dietrich, MD, Eitan Dickman, MD, RDMS, Andrew Herring, MD, Brian Johnson, MD, MPH, Matthew Kiefer, MD, Lawrence Haines, MD, MPH, RDMS, Emily Lovallo, MD, Arun Nagdev, MD, Jason Nomura, MD, RDMS, Daniel Mantuani, MD, MPH, David Rosenblum, MD, Gary Schwartz, MD, Craig Sisson, MD, RDMS, Mike Stone, MD, RDMS, Sachita Shah, MD

This course will increase participants' familiarity and comfort level with performing a variety of critical procedures using ultrasound guidance.

Convention Kickoff Events

Sunday, March 22

9:45 AM–11:30 AM

Opening/Awards Session/ AIUM Business Meeting

Awards Ceremony

- William J. Fry Memorial Lecture Award
- Joseph H. Holmes Clinical and Basic Science Pioneer Awards
- Distinguished Sonographer Award
- Peter H. Arger, MD, Excellence in Medical Student Education Award
- Honorary Fellow Awards

Plenary Session

Featured Speaker

Scott A. Dulchavsky, MD, PhD

Professor of Surgery, Molecular Biology, and Genetics
Wayne State University School of Medicine
Roy D. McClure Chair and Surgeon in Chief
Henry Ford Health System

Extraterrestrial Medical Care

The provision of medical care in austere environments is complicated by a lack of resources, trained personnel, and communication challenges. The National Aeronautics and Space Agency has developed just-in-time training methods to enhance point-of-care medical capabilities on the International Space Station using remote expert guidance and portable ultrasound. This presentation will highlight research, operational, and spin-off benefits of advanced ultrasound techniques to benefit care on Earth.

11:30 AM–1:00 PM

Grand Opening Luncheon in the Exhibit Hall

Continuing Medical Education (CME) Credit Information

Activity Description

The 2015 AIUM/WFUMB Convention and Preconvention Program is the most comprehensive, cutting-edge meeting for the entire medical ultrasound community. Our unique multidisciplinary program provides a collaborative environment for all specialties and disciplines, from beginner to advanced.

Accreditation Statement

The American Institute of Ultrasound in Medicine (AIUM) is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide CME activities for physicians.

Designation Statement

The AIUM designates the 2015 Preconvention Program for a maximum of 7.0 *AMA PRA Category 1 CME Credits*SM. The AIUM designates the 2015 AIUM/WFUMB Convention for a maximum of 30.75 *AMA PRA Category 1 CME Credits*SM. Physicians should only claim credit commensurate with the extent of their participation in the activity.

Credits for Sonographers

Sonographers participating in AIUM educational activities may earn credits toward maintaining their professional certification from the following organizations:

- **American Registry for Diagnostic Medical Sonography (ARDMS)**
The ARDMS accepts *AMA PRA Category 1 CME Credits*SM.
- **American Registry of Radiologic Technologists (ARRT)**
The AIUM is a Recognized Continuing Education Evaluation Mechanism (RCEEM) for the ARRT. These educational activities are approved by the AIUM for ARRT Category A Credits.

Target Audience

This activity is designed to meet the needs of ultrasound professionals from various medical disciplines and specialty areas who perform and interpret ultrasound examinations.

Convention Objective

On completion of this learning activity, participants should be able to:

- Demonstrate updated knowledge in basic science and instrumentation, cardiovascular ultrasound, contrast-enhanced ultrasound, emergency and critical care ultrasound, fetal echocardiography, general and abdominal ultrasound, gynecologic ultrasound, high-frequency clinical and preclinical imaging, interventional-intraoperative ultrasound, musculoskeletal ultrasound, neurosonology, obstetric ultrasound, pediatric ultrasound, sonography, and therapeutic ultrasound;
- Discuss state-of-the art ultrasound research;
- Practice updated ultrasound skills for more effective diagnosis; and
- Apply updated knowledge and clinical skills in improving patient care.

Activities Designed to Change

Competence and Performance.

Accreditation Council of Graduate Medical Education (ACGME) Competencies

These courses are designed to meet one or more of the following ACGME competencies:

Interpersonal and communication skills; medical knowledge; patient care and procedural skills; practice-based learning and improvement; professionalism; and systems-based learning.

Disclosure Policy

As a provider accredited by the ACCME, the AIUM must ensure balance, independence, objectivity, and scientific rigor in all its activities. Course director(s), planning committee members, faculty, and all others who are in a position to control the content of this CME activity are required to disclose all relevant financial relationship(s) that have occurred within the last 12 months with any commercial interest(s) related to the subject matter of this CME activity. The AIUM must determine if the faculty's relationships may influence the educational content with regard to exposition or conclusion and resolve any conflicts of interest before the commencement of the educational activity.

Faculty also will disclose any off-label and/or investigational use of pharmaceuticals or instruments discussed in their presentations. Disclosure of this information will be published in course materials so activity participants may make their own judgments regarding the presentation.

Disclosures for this Activity

The faculty, committee members, and AIUM staff involved in planning this CME activity will have completed a Disclosure of Financial Relationship. Disclosures will be listed under the speakers' names. All disclosures are printed in the 2015 AIUM/WFUMB *Final Program*. All completed disclosure forms are on file and available for review at the AIUM office.

Documenting CME Credits

The AIUM provides CME certificates to those who have participated in an AIUM educational activity. The AIUM does not submit credits to regulating bodies or certifying organizations on behalf of the participant. It is the participant's responsibility to submit proof of credits on his or her own behalf.

Disclaimer

The information presented in this activity represents the opinions of the faculty and is not necessarily the official position of the AIUM/WFUMB.

Special Interest Tracks

 **Hands-on Special Interest Sessions**
(Limited seating. Preregistration required. Additional fee.)
3-4D Volume Data Manipulation Sessions
(Limited seating. Preregistration required. Additional fee.)

Basic Science and Instrumentation

Sunday, March 22 8:00 AM–9:30 AM

Creative Beam-Forming Approaches

Moderators: Kathy Nightingale, PhD, Kai Thomenius, PhD

Speakers: Brett Byram, PhD, Jørgen Jensen, PhD, Larry Mo, PhD, Gregg Trahey, PhD

The session will include an overview of the source of noise in ultrasonic imaging, in addition to a discussion of several novel beam-forming approaches being investigated to improve image quality.

Sunday, March 22 1:00 PM–3:00 PM

Quantitative Ultrasound

Moderator: Robert Eckersley, MD

Speakers: Paul Carson, PhD, Ernest Feleppa, PhD, Helen Feltovich, MD, Timothy Hall, PhD, Oliver Krippgrans, PhD, G. Sharat Lin, PhD, Jonathan Mamou, PhD, William O'Brien Jr, PhD, Michael Oezle, PhD, Jonathan Rubin, MD, PhD, Keith Wear, PhD

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

Monday, March 23 8:15 AM–10:15 AM

Alternative Acoustic Source Imaging

Moderators: Mark Holland, PhD, Thomas Szabo, PhD

Speakers: Michael Kolios, PhD, Mickael Tanter, PhD, Seung-Schik Yoo, PhD, MBA, Kai Yu, MSci

On completion of this session, participants should be able to describe current alternative methods for generating ultrasonic images for research and potential clinical application and identify potential areas for collaboration and innovation.

Tuesday, March 24 8:15 AM–10:15 AM

Quantitative Imaging Biomarker Development

Moderators: Paul Carson, PhD, Mark Palmeri, MD, PhD

Speakers: Paul Dayton, PhD, Mavish Dhyani, MD, Flemming Forsberg, PhD, Brian Garra, MD, Mark Palmeri, MD, PhD

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

Tuesday, March 24 1:00 PM–3:00 PM

New Applications of Ultrasound in Emergency and Critical Care Medicine

Moderators: Oliver Kripfgans, PhD, Philip Levy, MD

Speakers: Srikar Adhikari, MD, MS, Jason Castle, MS, Romolo Gaspari, MD, PhD, RDMS, Odd Helge Gilja, MD, PhD, Philip Levy, MD, Glen McLaughlin, PhD

The goal of this session is to bridge the gap between the technology and clinical applications of ultrasound in the emergency room and critical care settings. As the use of ultrasound increases, the technology and science must move hand in hand with its clinical application. The evolution of ultrasound is changing the landscape of ultrasound applications in the emergent and critical care settings and greatly expanding the diagnostic and therapeutic potential of ultrasound in

adults and children. This session will discuss a new range of applications that ultrasound has in clinical practice, the specific challenges posed, and solutions to the increasing demands for ultrasound with the objective of translating this growing relationship between the quantitative physical properties of ultrasound and its clinical applications to patient care in critical care and emergency medicine.

Wednesday, March 25 1:00 PM–3:00 PM

ALARA (as Low as Reasonably Achievable): Do I Meet the Standards?

Moderator: Jacques Abramowicz, MD

Speakers: Jacques Abramowicz, MD, David Evans, PhD, DSC, J. Brian Fowlkes, PhD, Gail ter Haar, MA, DSC, MSC, PhD

The objectives of this session are to: (1) define risks of ultrasound; (2) explain how power is altered by various settings on the ultrasound scan; and (3) educate on how to keep ultrasound safe.

Cardiovascular Ultrasound

Sunday, March 22 8:00 AM–9:30 AM

Venous Hands-on Session With Emphasis on Reflux Testing and Calf Vein Imaging

Moderator: George Berdejo, BA, RVT

Hands-on Faculty: George Berdejo, BA, RVT, John Blebea, MD, MBA, Joshua Cruz, RDMS, RVT, M. Robert De Jong, RDMS, RDCS, RVT, Roy Fujitani, MD, RVT, Gowthaman Gunabushanam, MD, Ulrike Hamper, MD, MBA, Margarita Revzin, MD, MS, Deborah Rubens, MD, Leslie Scoutt, MD, Susan Smith, RDMS, RDCS, RVT

This session will provide an in-depth technical overview of the techniques necessary to use duplex ultrasound to: (1) evaluate the patient with chronic venous insufficiency; and (2) identify and evaluate, with confidence, the deep veins of the calf for the presence of deep vein thrombosis.

Monday, March 23 7:00 AM–8:00 AM

Carotid and Upper Extremity Arterial Imaging: Challenges, Pitfalls, and Missed Diagnoses

Moderators: Leslie Scoutt, MD, Gowthaman Gunabushanam, MD

Speakers: Stephanie Coquia, MD, Gowthaman Gunabushanam, MD

This session will provide a review of case studies in carotid and upper extremity vascular imaging to demonstrate examples of pitfalls in technique and interpretation and to stimulate discussion regarding diagnostic criteria and how to avoid technical and interpretive errors.

Monday, March 23 8:15 AM–10:15 AM

Understanding Carotid Stenosis: Diagnosis, Treatment, and Follow-up

Moderator: Leslie Scoutt, MD

Speakers: John Blebea, MD, MBA, Roy Fujitani, MD, Gowthaman Gunabushanam, MD, Ajay Malhotra, MD, Laurence Needleman, MD, John Pellerito, MD

On completion of this session, participants will understand the role of ultrasound and correlative imaging in the diagnosis of carotid stenosis, understand optimal management, and be able to analyze the role of ultrasound in follow-up of patients after interventions.

Special Interest Tracks

Monday, March 23

10:45 AM–12:00 PM

Peripheral Arterial Imaging: How Doppler Ultrasound and Noninvasive Testing Impact Patient Care

Moderator: John Pellerito, MD

Panelists: George Berdejo, BA, RVT, John Blebea, MD, MBA, Roy Fujitani, MD, RVT, Gowthaman Gunabushanam, MD, John Pellerito, MD

This session will discuss the role of noninvasive testing and Doppler ultrasound in the diagnosis and management of patients with suspected peripheral arterial disease, including pitfalls, misdiagnoses, workup algorithms, and diagnostic criteria. This course will focus on what the clinician needs to learn from the ordered study.

Monday, March 23

3:45 PM–5:30 PM

Challenging Abdominal Vascular Cases, Including Transplants

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

Speakers: Melanie Caserta, MD, M. Robert De Jong, RDMS, RDCS, RVT, Margarita Revzin, MD, MS

The objectives of this session are to: (1) determine the pathophysiology related to abnormal findings; (2) review the protocol, techniques, and diagnostic criteria for evaluating the pathology; and (3) confirm diagnosis or pathologic prediction based on additional imaging: magnetic resonance imaging, computed tomography, angiography, nuclear medicine, or positron emission tomography.

Tuesday, March 24

3:45 PM–5:30 PM

Comprehensive Hemodialysis Grafts

Moderator: Leslie Scoutt, MD

Speakers: George Berdejo, BA, RVT, Roy Fujitani, MD, RVT, Mark Lockhart, MD, MPH

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

Wednesday, March 25

8:15 AM–10:15 AM

Renal Artery and Mesenteric Doppler Ultrasound

Moderator: Margarita Revzin, MD, MS

Speakers: Stephanie Coquia, MD, Margarita Revzin, MD, MS, Murray Shames, MD

The objectives of this session are to describe the Doppler examination technique, describe the diagnostic criteria for renovascular hypertension and chronic mesenteric ischemia and their mimics, discuss when to intervene and how, and finally describe the role of ultrasound after intervention.

Contrast-Enhanced Ultrasound

Sunday, March 22

1:00 PM–3:00 PM

Contrast-Enhanced Ultrasound in Pediatrics

Moderators: Mary Beth McCarville, MD

Speakers: Kassa Darge, MD, PhD, Annamaria Deganello, MD, Christoph Dietrich, MD, Maria Sellars, MD

In this session, experts in pediatric contrast-enhanced ultrasound (CEUS) will discuss the current role of CEUS in the assessment of trauma, focal liver lesions, and voiding urosonography in children. The potential need for a pediatric CEUS registry and other regulatory issues will be discussed.

Monday, March 23

1:00 PM–3:00 PM

Contrast-Enhanced Ultrasound and Echo Enhancers: Approval Situation Around the World

Moderator: Christian Nolsøe, MD, PhD, J. Brian Fowlkes, PhD

Speakers: Maria Christina Chammas, MD, PhD, J. Brian Fowlkes, PhD, Brian Garra, MD, Ira Krefting, MD, Michael Main, MD, Miram Mikhail, MD, Christian Nolsøe, MD, PhD

This session will update registrants on approved indications for contrast-enhanced ultrasound, and experts will discuss ways to successfully navigate the approval process for ultrasound contrast agents with agencies around the globe.

Tuesday, March 24

7:00 AM–8:00 AM

Clinical Applications of Contrast-Enhanced Ultrasound: Case-Based Approach

Moderator: Urike Hampa, MD, MBA

Speakers: Giovanna Ferraioli, MD, Michelle Robbin, MD

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

Tuesday, March 24

8:15 AM–10:15 AM

Clinical Applications of Ultrasound Contrast: Part 1

Moderator: Urike Hamper, MD, MBA

Speakers: Richard Barr, MD, PhD, Jean-Michel Correas, MD, PhD, David Cosgrove, MA, MSc, FRCP, FRCR, Giovanna Ferraioli, MD, Cynthia Peterson, MD

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

Tuesday, March 24

1:00 PM–3:00 PM

Clinical Applications of Ultrasound Contrast: Part 2

Moderator: Arthur Fleischer, MD

Speakers: Jean Ayoub, MD, PhD, Nitin Chaubal MD, Nathalie Lassau, MD, PhD, Paul Sidhu, MD, Stephanie Wilson, MD, PhD

With an international panel of experts in contrast-enhanced ultrasound (CEUS) presenting, participants will gain insight into the use of CEUS for daily clinical practice. Topics that will be covered include CEUS for renal transplant imaging, inflammatory bowel disease, and applications in gynecology, the intensive care unit, and emergencies, as well as cancer treatment responses.

Special Interest Tracks

Wednesday, March 25

8:15 AM–10:15 AM

Basic Science and Preclinical Applications of Ultrasound Contrast

Moderator: Andrej Lyshick, MD

Speakers: Charles Caskey, PhD, Paul Dayton, PhD, John Eisenbrey, PhD, Odd Helge Gilja, MD, PhD, Christy Holland, PhD

This session will cover the following areas: (1) molecular imaging with contrast-enhanced ultrasound (CEUS); (2) ultrasound acoustic angiography; (3) sonothrombolysis with microbubbles; (4) subharmonic CEUS; and (5) therapeutic applications of CEUS.

Elastography

Saturday, March 21

7:30 AM–5:00 PM

Elastography: State of the Art, 2015

Moderator: Richard Barr, MD, PhD

Speakers: Richard Amini, MD, Christian Bamber, MD, Richard Barr, MD, PhD, Vito Cantisani, MD, Jean-Michel Correas, MD, PhD, David Cosgrove, MA, MSc, FRCP, FRCR, Zachary Domire, PhD, Giovanna Ferraioli, MD, Carlo Filice, PhD, Masatoshi Kudo, MD, PhD, Kazutaka Nakashima, MD, PhD, Mark Palmeri, MD, PhD

The course will cover all applications, including technical explanations as well as how to use elastography in the various applications and some high-level interpretation with a live demonstration of scanning techniques.

Monday, March 23

8:15 AM–10:15 AM

Hands-on Elastography

Moderator: Richard Barr, MD, PhD

Speakers: Richard Barr, MD, PhD, Giovanna Ferraioli, MD, Carlo Filice, PhD

In this session, the learner will be able to look at a variety of ultrasound systems that offer elastography in a variety of applications and different techniques. The user will be able to see the capabilities on phantoms and, in some cases, models. The user can also engage clinicians to answer questions and provide insight into elastography and its value in ultrasound imaging.

Monday, March 23

3:45 PM–5:30 PM

Elastography: Just Cases (Liver, Thyroid, Musculoskeletal, and Gynecologic)

Moderator: Richard Barr, MD, PhD

Speakers: David Cosgrove, MA, MSc, FRCP, FRCR, Masatoshi Kudo, MD, PhD

In this session, the learner will see a variety of cases showing both compression strain and shear wave elastography and how the use of elastography is contributing to the overall interpretation.

Tuesday, March 24

7:00 AM–8:00 AM

Elastography Research

Moderator: Richard Barr, MD, PhD

Speakers: Richard Barr, MD, PhD, Giovanna Ferraioli, MD, Masatoshi Kudo, MD, PhD, Kazutaka Natashima, MD

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

Wednesday, March 25

10:45 AM–12:00 PM

Elastography: Breast Images

Moderator: Richard Barr, MD, PhD

Speakers: Richard Barr, MD, PhD, Yi-Hong Chou, MD, Kawasaki Natashima, MD

The learner will see a variety of cases showing both compression strain and shear wave elastography and how the use of elastography is contributing to the overall interpretation.

Emergency and Critical Care Ultrasound

Saturday, March 21

1:00 PM–5:00 PM

Sonographic Guidance of Critical Procedures

Moderators: Eitan Dickman, MD, RDMS, Arun Nagdev, MD

Speakers: Christine Riguzzi Allison, MD, Eitan Dickman, MD, RDMS, Christoph Dietrich, MD, Jason Fischer, MD, MSc, Lawrence Haines, MD, MPH, RDMS, Andrew Herring, MD, Brian Johnson, MD, MPH, Matthew Kiefer, MD, Emily Lovallo, MD, Daniel Mantuani, MD, MPH, Arun Nagdev, MD, Jason Nomura, MD, RDMS, David Rosenblum, MD, Gary Schwartz, MD, Sachita Shah, MD, Craig Sisson, MD, RDMS, Mike Stone, MD, RDMS

This course will increase participants' familiarity and comfort level with performing a variety of critical procedures using ultrasound guidance.

Sunday, March 22

8:00 AM–9:30 AM

Teaching and Assessing Point-of-Care Sonography

Moderator: Srikar Adhikari, MD, MS

Speakers: David Bahner, MD, RDMS, Resa Lewiss, MD, Vicki Noble, MD, RDMS, Jason Nomura, MD, RDMS

This session will review the current methods of teaching point-of-care sonography, including curriculum design, competency assessment, and teaching learners from different levels of learning and different specialties.

Monday, March 23

1:00 PM–3:00 PM

Point-of-Care Assessment of Acute Bowel Pathology

Moderator: John Pelleritro, MD

Speakers: To be determined

The objective of this session is to discuss feasibility, evidence, techniques, and pathology in point-of-care ultrasound for the bowel.

Tuesday, March 24

7:00 AM–8:00 AM

Ultrasound Evaluation of Acute Abdominal and Pelvic Pain

Moderator: Srikar Adhikari, MD, MS

Speaker: Beryl Benacerraf, MD, Brian Coley, MD, Adrian Goudie, MD

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

Special Interest Tracks

Tuesday, March 24

8:15 AM–10:15 AM

New Horizons in Critical Care: Part 1

Moderator: Eitan Dickman, MD, RDMS

Speakers: Scott Millington, MD, Jorge Rabat, MD, R. Andrew Taylor, MD

Participants will learn about recent advancements in the use of sonography when caring for critically ill patients. Specifically, they will: (1) understand the role of diastology in assessing patients with possible congestive heart failure; (2) understand the role of transesophageal echocardiography in managing these patients; and (3) understand the role of sonography for confirmation of endotracheal tube placement.

Tuesday, March 24

1:00 PM–3:00 PM

New Horizons in Critical Care: Part 2

Moderator: Eitan Dickman, MD, RDMS

Speakers: Arun Nagdev, MD, Harriet Paltiel, MD, Mark Tessaro, MD

Participants will learn about recent advancements in the use of sonography when caring for critically ill patients. Specifically, they will: (1) understand the role of sonography as a noninvasive means of assessing intravascular volume status; (2) increase their knowledge of transthoracic echocardiography, which can be used to guide patient management; and (3) explore possible roles of contrast-enhanced sonography in critically injured patients.

Wednesday, March 25

1:00 PM–3:00 PM

Ultrasound Evaluation of Vascular Emergencies

Moderator: Srikar Adhikari, MD, MS

Speakers: John Pellerito, MD, Michael Blaivas, MD, M. Robert De Jong, RDMS, RDCS, RVT

This session will review the role of ultrasound evaluation in a variety of vascular emergencies.

Fetal Echocardiography

Saturday, March 21

1:00 PM–5:00 PM

Advanced Fetal Cardiac Examination

Moderator: Wesley Lee, MD

Speakers: Wesley Lee, MD, Jack Rychik, MD, Wayne Tworetzky, MD, Vita Zidere, MD

This course will familiarize the audience with some of the more difficult diagnoses, their evaluation, and implications of imaging for counseling and prognosis.

Sunday, March 22

1:00 PM–3:00 PM

Four-Dimensional Fetal Cardiac Examination

Moderator: Liat Gindes, MD

Speakers: Reuven Achiron, MD, Gregory DeVore, MD, Luís Gonçalves, MD, Mark Sklansky, MD, Lami Yeo, MD

This session will review the current state-of-the-art fetal cardiac 3- and 4-dimensional imaging.

Sunday, March 22

3:30 PM–5:30 PM

Assessment of the Fetus at Risk

Moderators: Lynn Simpson, MD, Lami Yeo, MD

Speakers: Julene Carvalho, MD, PhD, FRCPCH, Jim Huhta, MD, Anita Moon-Grady, MD, Giancarlo Mari, MD, Lynn Simpson, MD, MSc, Boris Tutschek, MD,

The objectives of this session are to review the fetal echocardiographic assessment and findings in diseases that may cause fetal distress and to discuss newer modalities for early detection and intervention for improving pregnancy outcomes in these pathologies.

Monday, March 23

7:00 AM–8:00 AM

Guidelines for Examination of the Fetal Heart

Moderator: Dolores Pretorius, MD

Speakers: Julene Carvalho, MD, PhD, Anita Moon-Grady, MD, Dolores Pretorius, MD

The objective of this session is to review recently published and updated guidelines for minimum standards for examination of the fetal heart.

Monday, March 23

10:45 AM–12:00 PM

Wrong Diagnosis: Learning From Our Mistakes

Moderator: Reem Abu-Rustum, MD

Speakers: Alfred Abuhamad, MD, Reem Abu-Rustum, MD, Gregory DeVore, MD, Lisa Hornberger, MD, Boris Tutschek, MD

The objective of this session is to present false-positive and false-negative cases of congenital heart disease.

Tuesday, March 24

7:00 AM–8:00 AM

Anatomic Lessons From Ultrasound

Moderator: Liat Gindes, MD

Speakers: Alfred Abuhamad, MD, Alina Brenner, MD, Liat Gindes, MD, Lynn Simpson, MD, MSc

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

Tuesday, March 24

10:45 AM–12:00 PM

Advanced Fetal Echocardiographic Techniques

Moderator: Liat Gindes, MD

Speakers: Helena Gardiner, MD, PhD, Elena Sinkovskaya, MD, PhD, RDMS, RDCS, Boris Tutschek, MD

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

Tuesday, March 24

1:00 PM–3:00 PM

Fetal Arrhythmia

Moderator: Mark Sklansky, MD

Speakers: Sarah Chambers, MD, Helena Gardiner, MD, PhD, Lisa Hornberger, MD, Mark Sklansky, MD

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

Special Interest Tracks

Tuesday, March 24 3:30 PM–5:30 PM

3-4D Three- and Four-Dimensional Volume Data Set Manipulation: Fetal Echocardiography

GE Healthcare
Philips Healthcare

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

Tuesday, March 24 3:45 PM–5:30 PM

All You Need to Know About Dextro-Transposition of the Greater Arteries, Tetralogy of Fallot, and Atrioventricular Septal Defects

Moderator: Wesley Lee, MD
Speakers: Miwa Geiger, MD, Wesley Lee, MD, Gary Satou, MD, Norman Silverman, MD, DSc

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

General and Abdominal Ultrasound

Sunday, March 22 8:00 AM–9:30 AM

Ultrasound of the Thyroid: Guidelines and Controversies in the Management of Incidental Thyroid Nodules

Moderator: Maria Cristina Chammas, MD, PhD
Speakers: Maria Cristina Chammas, MD, PhD, James Etzkorn, MD, David Goldenberg, MD

Topics covered in this session will include: new American Thyroid Association guidelines: an endocrinologist's perspective; and controversies in the management of incidental thyroid nodules: an endocrine surgeon's perspective.

Sunday, March 22 8:00 AM–9:30 AM

Genitourinary Ultrasound Update

Moderator: Harvey L. Nisenbaum, MD
Speakers: Francesco M. Drudi, MD, Leandro Fernandez, MD, Seung Hyup Kim, MD, Harvey L. Nisenbaum, MD

The goal is to provide updates in genitourinary ultrasound.

Sunday, March 22 1:00 PM–3:00 PM

Ultrasound of the Gastrointestinal Tract and Retroperitoneum

Moderator: Stephanie Wilson, MD
Speakers: Nitin Chaubal, MD, DMRD, Nirvikar Dahiya, MD, Vikram Dogra, MD, Dieter Nurenberg, MD, Stephanie Wilson, MD

This session will discuss the following topics: ultrasound of the gastrointestinal tract; ultrasound of the pancreas; ultrasound of the spleen; and ultrasound of the kidneys and retroperitoneum.

Monday, March 23 1:00 PM–3:00 PM

Doppler Technique and How to Scan: Part 1

Moderators: Wui Chong, MD, Laurence Needleman, MD
Speakers: Wui Chong, MD, Salvatore LaRusso, MEd, RDMS, RT(R), Laurence Needleman, MD

Topics to be covered during this session include: knobology/image optimization for Doppler ultrasound; liver Doppler techniques; and renal Doppler techniques.

Martes, 24 de marzo 8:15 AM–10:15 AM

Ultrasonido General (In Spanish)

Moderator: Tulio Augusto Alves Macedo, MD
Speakers: Maria Cristina Chammas, MD, PhD, Leandro Fernandez, MD, Tulio Augusto Alves Macedo, MD, Jorge Rabbat, MD, Osmar Saito, MD, PhD

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

Mardi, 24 Mars 10:45 AM–12:00 PM

Quoi de Neuf en Echographie en 2015 (In French)

Moderators: Hassen Gharbi, MD
Speakers: Jacques Abramowicz, MD, Philippe Arbeille, MD, PhD, Michel Claudon, MD, Bruno Fornage, MD, Hassen Gharbi, MD

See page 21 for course description.

Tuesday, March 24 1:00 PM – 3:00 PM

Advanced Liver and Renal Doppler Ultrasound: Part 2

Moderator: Leslie Scoutt, MD
Speakers: Robert Atnip, MD, Ulrike Hamper, MD, MBA, Leslie Scoutt, MD, Fabio Piscaglia, MD

This session will cover the following topics: portal hypertension; transjugular intrahepatic portosystemic shunts; renovascular hypertension, pseudoaneurysms, and arteriovenous fistulas; and renal and liver transplants: a vascular surgeon's perspective.

Tuesday, March 24 3:45 PM–5:30 PM

Best Teaching Cases I Have Seen

Moderator: Franklin Tessler, MD, CM
Speakers: Monzer Abu-Yousef, MB, BCh, ABR, Corinne Deurdulian, MD, Zoltan Harkanyi, MD, Hyo-Keum Lim, MD, Mark Lockhart, MD, MPH, Hanh Nghiem, MD, Franklin Tessler, MD, CM

This session will provide a multi-institutional potpourri of best teaching cases.

Special Interest Tracks

Wednesday, March 25

8:15 AM–10:15 AM

Ultrasound of the Breast: Screening, BI-RADS, and Challenging Cases

Moderator: Susan Ackerman, MD

Speakers: Susan Ackerman, MD, Wendie Berg, MD, PhD, Stamatia Destounis, MD, Abid Irshad, MBBS, Madelene Lewis, MD

The session is designed to discuss the following areas: screening breast ultrasound: what you need to know; multimodality approach to problem-solving lesions; American College of Radiology Breast Imaging Reporting and Data System (BI-RADS) for breast ultrasound; and challenging breast ultrasound cases (audience participation).

Wednesday, March 25

1:00 PM–3:00 PM

Ultrasound of the Gallbladder and the Biliary Tract

Moderator: Shweta Bhatt, MD

Speakers: Sanjiv Bajaj, MD, Shweta Bhatt, MD, Kathryn Robinson, MD

This session will cover the following topics: basic gallbladder imaging; advanced gallbladder imaging; and benign and malignant diseases of the bile ducts.

Gynecologic Ultrasound

Saturday, March 21

1:00 PM–5:00 PM

Early Pregnancy Complications

Moderator: Misty Blanchette Porter, MD

Speakers: Carol Benson, MD, Tom Bourne, MD, Peter Doubilet, MD, PhD, George Condous, MD, Steven R. Goldstein, MD

After attending this course, participants will know more about the following topics: developing criteria to define miscarriage; pregnancy of unknown viability; how to classify pregnancies of unknown location as low or high risk; tubal ectopic pregnancy—diagnosis, management, and case conundrums; the features of nontubal ectopic pregnancy diagnosis and management; and the psychological impact of early pregnancy events, selecting women for expectant, medical, and surgical management of ectopic pregnancies, including case examples, and normal and aberrant first-trimester embryonic growth.

Sunday, March 22

8:00 AM–9:30 AM

Adnexal Masses

Moderator: Douglas “Rusty” Brown, MD

Speakers: Tom Bourne, MD, Douglas “Rusty” Brown, MD, Dirk Timmerman, MD

This session will cover the following topics: evaluating ovarian masses—morphology, blood flow, and assessment of malignancy; discriminating between borderline, metastatic, and primary invasive ovarian carcinoma—when should we call an oncologist and sonographic diagnosis and follow-up of adnexal cysts.

Sunday, March 22

1:00 PM–3:00 PM

Reproductive Medicine and Infertility, Including 3-Dimensional Evaluation

Moderator: James Shwayder, MD, JD

Speakers: Misty Blanchette Porter, MD, Elizabeth Puscheck, MD, MS, James Shwayder, MD, JD

This session will cover the following topics: diagnostic criteria for polycystic ovary syndrome and ovarian reserve testing; diagnosis and clinical relevance of congenital uterine abnormalities; tubal patency—the evolving role of hysterosalpingo contrast sonography and sonohysterosalpingography, past and present; and what impact fibroids have on infertility and in vitro fertilization outcome.

Sunday, March 22

3:30 PM–5:30 PM

Pelvic Floor Ultrasonography: Transperineal and Endovaginal Imaging

Moderators: Phyllis Glanc, MDCM, BSC, FRCPC, Abbas Shobeiri, MD

Speakers: Phyllis Glanc, MDCM, BSC, FRCPC, Abbas Shobeiri, MD, Lieschen Quiroz, MD

This session is designed to show participants how to obtain optimal images of pelvic floor muscles and organs. Attendees will learn how useful images of the pelvic floor are obtained and interpreted. Emerging techniques of “dynamic” pelvic floor ultrasound and 3-dimensional ultrasound will be introduced.

Monday, March 23

7:00 AM–8:00 AM

Three-Dimensional Imaging of the Uterus: The Value of the Coronal Plane

Moderator: Rochelle Andreotti, MD

Speakers: Rochelle Andreotti, MD, Yvette Groszmann, MD

The participant will recognize 3-dimensional reconstructions in the coronal plane as the imaging modality of choice in the evaluation of uterine shape anomalies, to improve visualization of the entire intrauterine system and other methods of tubal contraception, and to better understand the relationship of masses and adhesions in the endometrial cavity with and without sonohysterography.

Monday, March 23

8:15 AM–10:15 AM

Endometriosis: Refining Our Approach

Moderator: James Shwayder, MD, JD

Speakers: Beryl Benacerraf, MD, George Condous, MD, James Shwayder, MD, JD, Dirk Timmerman, MD, PhD

The session will discuss the following: a preoperative ultrasound-based staging system for women with potential endometriosis; correlation of sonographic findings and laparoscopic findings with advanced-stage endometriosis; and predicting pouch of Douglas obliteration by sonovaginography.

Monday, March 23

3:45 PM–5:30 PM

Unknown Cases: Gynecology

Moderator: Peter Doubilet, MD

Panelists: William Brown, MD, Arthur C. Fleischer, MD, Dolores Pretorius, MD, Ilan Timor-Trisch, MD

This session will present interesting and challenging gynecologic cases.

Special Interest Tracks

Tuesday, March 24 8:15 AM–10:15 AM

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

GE Healthcare, Philips Healthcare

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

Tuesday, March 24 3:45 PM–5:30 PM

Abnormal Uterine Bleeding

Moderator: Steven R. Goldstein, MD

Speakers: Steven R. Goldstein, MD, Khaled Sakhel, MD, Dirk Timmerman, MD, PhD

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

Wednesday, March 25 7:00 AM–8:00 AM

Just Images—Gynecology: Unknown Cases

Moderator: Khaled Sakhel, MD

Speakers: Ramon Battaglia Araujo, MD, Margarita Revzin, MD, MS, Khaled Sakhel, MD

This session will show unique unknown gynecologic cases. This will allow for audience responses.

Wednesday, March 25 8:15 AM–10:15 AM

Acute Care in Gynecology

Moderator: Rochelle Andreotti, MD

Speakers: Rochelle Andreotti, MD, William Brown, MD, Jodi Lerner, MD

This session will cover the following topics: (1) classifying common ovarian cysts you might see in the emergency room; (2) diagnosis and treatment of pelvic inflammatory disease and pelvic abscesses; and (3) ovarian and adnexal mass torsion.

High-Frequency Clinical and Preclinical Imaging

Sunday, March 22 3:30 PM–5:30 PM

Recent Advances in Clinical and Preclinical Intravascular Ultrasound

Moderator: Jonathan Mamou, PhD

Speakers: Marvin Doyley, PhD, Anuja Nair, PhD, Ton van der Steen, PhD

This session will review basic principles of intravascular ultrasound imaging using high-frequency ultrasound, discuss its clinical significance, and provide highlights of current state-of-the-art preclinical and clinical research.

Monday, March 23 3:45 PM–5:30 PM

High-Frequency Ultrasound Imaging: Dermatologic Applications

Moderator: Terri Swanson, MA

Speakers: Robert Bard, MD, Orlando Catalano, MD, Terri Swanson, MA, Ximena Wortsman, MD

Learn about the latest techniques in skin imaging and dermatology.

Wednesday, March 25 8:15 AM–10:15 AM

Pediatric Applications of High-Frequency Ultrasound

Moderator: Ron Silverman, PhD

Speakers: Michel Claudon, MD, Daniel Low, MD, Roxana Ursea, MD

Learn about high-resolution imaging of neonates.

Interventional and Intraoperative Ultrasound

Monday, March 23 7:00 AM–8:00 AM

Just Images—Too Cool! Interesting Cases in Interventional Ultrasound: Novel and Practical Approaches to Procedures

Moderator: Dean Huang, BMedSci, BMBS, MRCACH, FRCR, EBIR

Speakers: DeVang Butani, MD, Dean Huang, BMedSci, BMBS, MRCACH, FRCR, EBIR

After attending this session, participants will be familiar with interesting cases incorporating new techniques and technologies involving ultrasound-guided interventional procedures.

Monday, March 23 1:00 PM–3:00 PM

How to Do the Biopsy: Hands-on

Moderator: Shweta Bhatt, MD

Speakers: Nami Azar, MD, Shweta Bhatt, MD, Devang Butani, MD, Wui Chong, MD, Corinne Deurdulian, MD, Vikram Dogra, MD, Ulrike Hamper, MD, MBA, Hamad Ghazle, EdD, APS, RDMS, Mark Lockhart, MD, MPH, Dean Nakamoto, MD, Deborah Rubens, MD, Leslie Scoutt, MD, Ravinder Sidhu, MD, Hisham Tchelepi, MD

After attending this session, participants will be able to understand prebiopsy preparation, have hands-on experience with the techniques of doing biopsies of soft tissue masses, thyroid nodules, breast masses, the liver, and kidneys, and recognize and manage common complications.

Tuesday, March 24 8:15 AM–10:15 AM

Know When to Hold 'Em: How to Avoid Complications During Interventional Procedures and How to Manage When You Get Them

Moderator: Dean Nakamoto, MD

Speakers: Nami Azar, MD, Christian Nolsøe, MD, PhD, Dean Nakamoto, MD

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

Special Interest Tracks

Musculoskeletal Ultrasound

Saturday, March 21 7:30 AM–5:00 PM

Comprehensive Review of Musculoskeletal Ultrasound

Moderators: Colin Strickland, MD, Humberto Rosas, MD

Speakers: Nathalie Bureau, MD, FRCP(C), Joseph Craig, MD, ChB, Gandikota Girish, MBBS, FRCS, FRCR, RMSK, Jon Jacobson, MD, Humberto Rosas, MD, Colin Strickland, MD

On completion of this course, participants should gain a basic understanding of when and how to perform musculoskeletal ultrasound to evaluate the shoulder, elbow, wrist, hip, knee, ankle, and foot.

Sunday, March 22 3:30 PM–5:30 PM

Hands-on Scanning: Upper Extremity Joints (Shoulder, Elbow, and Wrist)

Moderators: Mary Chiavaras, MD, PhD, Kenneth Lee, MD

Speakers: Mary Chiavaras, MD, PhD, Cristy Gustas, MD, Jon Jacobson, MD, Lauren Ladd, MD, Kenneth Lee, MD, Patrick Meyer, BS, RDMS, RDCS, RVT, William Medford, RDMS, RMSK, Levon Nazarian, MD, Daniel Nissman, MD, MPH, MSEE, Humberto Rosas, MD, Courtney Scher, DO, Daniel Siegal, MD, Colin Strickland, MD, Andrew Zbojniec, MD, Sandra Allison, MD

On completion of this session, participants will have gained hands-on experience in scanning the upper extremity joints of the shoulder, elbow, and wrist.

Monday, March 23 8:15 AM–10:15 AM

Cutting-edge Musculoskeletal Ultrasound: Peripheral Nerves of the Upper Extremity

Moderator: Corrie Yablon, MD

Speakers: Daniel Siegal, MD, Alberto Simoncini, MD, Corrie Yablon, MD

On completion of this session, participants should know how and when to perform ultrasound examinations of the peripheral nerves of the upper extremity, including interventional techniques.

Tuesday, March 24 8:15 AM–10:15 AM

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

Moderator: Michael Di Pietro, MD

Speakers: Michael Di Pietro, MD, Levon Nazarian, MD, Andrew Zbojniec, MD

In this session, participants will learn to find and identify the brachial plexus and its components and learn uses in preoperative assessment for repair of perinatal brachioplexopathy, in assessing thoracic outlet impingement, and in assessing infant glenoid dysplasia and shoulder subluxation.

Tuesday, March 24 8:15 AM–10:15 AM

Hands-on Scanning: Peripheral Nerves of the Upper Extremity

Moderators: Kenneth Lee, MD, Humberto Rosas, MD

Hands-on Faculty: Nathalie Bureau, MD, FRCP(C), Joseph Craig, MD, ChB, Mary Chiavaras, MD, PhD, FRCPC, Victor Flores, MD, Gandikota Girish, MBBS, FRCS, FRCR, RMSK, Jon Jacobson, MD,

William Medford, RDMS, RMSK, Daniel Nissman, MD, MPH, MSEE, Courtney Scher, DO, Daniel Siegal, MD, Colin Strickland, MD, Alberto Simoncini, MD, Corrie Yablon, MD

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

Tuesday, March 24 1:00 PM–3:00 PM

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

Moderator: Levon Nazarian, MD

Speakers: Victor Flores, MD, Jason Wagner, MD, Ximena Wortsman, MD

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

Wednesday, March 25 7:00 AM–8:00 AM

Rheumatologic Applications of Ultrasound: Rheumatoid Arthritis From A to Z

Moderator: Joseph Craig, MD, ChB

Speakers: Mina Kohler, MD, Courtney Scher, DO

On completion of this session, participants will know when and how to use musculoskeletal ultrasound for rheumatologic disease such as rheumatoid arthritis.

Neurosonology

Monday, March 23 7:00 AM–8:00 AM

Head Ultrasound of Hypoxic Ischemic Encephalopathy

Moderator: Beth Kline-Fath, MD

Speakers: Beth Kline-Fath, MD, Marianna Meyers, MD

A review of normal head ultrasound will be followed by imaging findings of hypoxic ischemic injury in the preterm and term infant.

Monday, March 23 1:00 PM–3:00 PM

Perinatal Imaging of the Neck and Spine

Moderator: Dorothy Bulas, MD

Speakers: Dorothy Bulas, MD, Christopher Cassady, MD, Judy Estroff, MD

The objective of this session is to review common prenatal neck and spine pathologies with postnatal correlation.

Tuesday, March 24 10:45 AM–12:00 PM

Film Panel—Spine-Tingling Cases: Pediatric Spine Cases That Educate, Amaze, and Amuse

Moderator: Michael Di Pietro, MD

Speakers: Maria Ladino-Torres, MD, Lisa Lowe, MD, Harriet Paltiel, MD

The objective of this session is to educate pediatric radiologists and sonographers about spinal pathologies in infants and children and the value of ultrasound in evaluating them.

Special Interest Tracks

Tuesday, March 24

1:00 PM–3:00 PM

Hands-on Carotid and Transcranial Doppler Ultrasound Technique

Moderator: Tatjana Rundek, MD, PhD

Hands-on Faculty: Andrei Alexandrov, MD, RVT, Eva Bartels, MD, PhD, John Blebea, MD, MBA, Digna Cabral, BS, Stephanie Coquia, MD, Joshua Cruz, RDMS, RVT, Zsolt Garami, MD, Salvatore LaRusso, MEd, RDMS, RT(R), Margarita Revzin, MD, MS, Tatjana Rundek, MD, PhD, Leslie Scoutt, MD, Susan Smith, REMS, RDMS, RVT, Charles Tegeler, MD, Nelly-Campos, MD, RVT

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

Wednesday, March 25

1:00 PM–3:00 PM

Transcranial and Duplex Doppler Interpretation and Operating Room Applications

Moderator: Tatjana Rundek, MD, PhD

Speakers: John Blebea, MD, MBA, Joshua Cruz, RDMS, RVT, Michele Johnson, MD, Salvatore LaRusso, MEd, RDMS, RT(R), Tatjana Rundek, MD, PhD, Leslie Scoutt, MD, Charles Tegeler, MD

After this session, participants will be able to describe and discuss the indications and interpretation of carotid and transcranial Doppler ultrasound studies.

Obstetric Ultrasound

Saturday, March 21

7:30 AM–5:00 PM

The Fetus: Five Top “Do Not Miss” Diagnoses

Moderators: Phyllis Glanc, MDCM, BSC, FRCP, Anne Kennedy, MD

Speakers: Alfred Abuhamad, MD, Judy Estroff, MD, Wesley Lee, MD, Carol Benson, MD, Beverly Coleman, MD, Phyllis Glanc, MDCM, BSC, FRCP, Anne Kennedy, MBBCh, MRCP, FRCR, Deborah Levine, MD, Giancarlo Mari, MD, MBA, Israel Meizner, MD, Aris Papageorghiou, MD, Rodrigo Ruano, MD, Gail ter Haar, MA, DSc, MSc, PhD, Ants Toi, MD

This course will review common fetal abnormalities in obstetric ultrasound from head to toe (excluding the fetal heart and nonfetal obstetrics); discuss differential diagnosis and management of challenging cases; and describe clues in diagnosis and adjuncts to ultrasound in the diagnosis of difficult fetal cases; we will ask for audience responses for diagnosis.

Sunday, March 22

8:00 AM–9:30 AM

Obstetric Ultrasound Guidelines and Recommendations: What’s New for 2015?

Moderator: Jude Crino, MD

Speakers: Carol Benson, MD, Jude Crino, MD, Gregory DeVore, MD, Anthony Johnson, DO

This session will discuss new and revised guidelines and recommendations for obstetric ultrasound.

Sunday, March 22

1:00 PM–3:00 PM

Hands-on Obstetric Ultrasound

Moderators: Julia Solomon, MD, Joan Mastrobattista, MD

Speakers: Lisa Balk, RT(R), RDMS, Nasrin Benion, RDMS, Kathleen Bradley, MD, Jude Crino, MD, Cindy Fraser, RDMS, Bryan Freeman, MD, Angela Glaser, RDMS, Amanda Howard, RDMS, Luis Izquierdo, MD, MBA, Lynn Murphy-Kaulbeck, MD, CPE, Veronica Martinez, Anne Maude Morency, MD, RDMS, Susan Campbell Westerway, PhD

Participants will perform obstetric ultrasound examinations on second- and third-trimester models with supervision by and instruction from sonographer and physician experts.

Dimanche, 22 Mars

3:30 PM–5:50 PM

Echographie Fœtale: Quoi de Neuf en 2015 (In French)

Moderator: Hassen Gharbi, MD

Speakers: Jacques Abramowicz, MD, Elisabeth Bensaid, DU, Michel Claudon, MD, Philippe Coquel, MD, Kaouther Dimassi, MD, Catherine Egoroff, MD, Hassen Gharbi, MD

See page 21 for course description.

Monday, March 23

7:00 AM–8:00 AM

Just Images

Moderator:

Speakers: Ronald Benzie, MBChB, FRCSC, FRCOG, FRANZCOG, Mishella Perez, BS, RDMS, RDMS, Kevin Phung, MD

Monday, March 23

8:15 AM–10:15 AM

Fetal Growth and Obstetric Doppler Ultrasound

Moderator: Jacques Abramowicz, MD

Speakers: Jacques Abramowicz, MD, Ahmet Bashat, MD, Aris Papageorgiou, MD

The objective of this session is to discuss the diagnosis and management of fetal growth abnormalities and principles and applications of obstetric Doppler ultrasound.

Monday, March 23

1:00 PM–3:00 PM

Skeletal Dysplasias

Moderators: Janice Byrne, MD, Israel Meizner, MD

Speakers: Janice Byrne, MD, Manijeh Kamyar, MD, Israel Meizner, MD, Thomas Shipp, MD

The objectives of this session are to: (1) evaluate challenging fetal skeletal dysplasia cases; (2) discuss a stepwise approach in evaluation of fetal skeletal dysplasias; (3) discuss imaging clues and pitfalls in the diagnosis of fetal skeletal dysplasias; and (4) describe complementary imaging as an adjunct to ultrasound in managing difficult cases.

Special Interest Tracks

Tuesday, March 24

7:00 AM–8:00 AM

Three- and Four-Dimensional Ultrasound: Obstetric Applications

Moderator: Julia Solomon MD

Speakers: Wesley Lee, MD, Julia Solomon MD, Cheryl Vance, MA, RT, RDMS, RVT

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

Tuesday, March 24

8:15 AM–10:15 AM

Nonfetal Obstetric Ultrasound

Moderator: Ana Monteagudo, MD

Speakers: Ana Monteagudo, MD, Margaret Dziadosz, MD, Jonathan Rosner, MD, Ilan Timor-Tritsch, MD

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

Tuesday, March 24

10:30 AM–12:30 PM

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

GE Healthcare

Philips Healthcare

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

Martes, 24 de marzo

1:00 PM–3:00 PM

Temas y Controversias en el Ultrasonido Obstetrico (In Spanish)

Moderator: Luis Izquierdo, MD, MBA, CPE

Speakers: Ramon Battaglia Araujo, MD, Edwin Guzman, MD, Dibe Martin, MD, Ana Monteagudo, MD, RDMS, Hernan Munoz, MD, Waldo Sepulveda, MD

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

Tuesday, March 24

1:00 PM–3:00 PM

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

GE Healthcare

Philips Healthcare

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

Wednesday, March 25

7:00 AM–8:00 AM

Invasive Fetal Therapy: Current State of the Art

Moderator: Timothy Crombleholme, MD

Speakers: Timothy Crombleholme, MD, Anthony Johnson, MD, José Piero, MD, Wayne Tworetsky, MD

On completion of this session, participants will understand which fetal conditions are amenable to invasive therapy.

Wednesday, March 25

8:15 AM–10:15 AM

Noninvasive Prenatal Testing: What It Can and Cannot Do

Moderator: Mark Evans, MD

Speakers: Mathias Ehrich, MD, Mark Evans, MD, David Krantz, MA

This session will cover current molecular technology and methods for noninvasive prenatal testing (NIPT), address the benefits and limitations of NIPT, and outline appropriate indications for the utility of NIPT in accordance with professional organizational guidelines.

Wednesday, March 25

10:45 AM–12:00 PM

Obstetric Film Panel: Interesting Prenatal Cases With Neonatal Follow-up

Moderator: Janice Byrne, MD

Panelists: Tim Canavan, MD, MSc, Mary O'Day, MD, Joan Mastrobattista, MD, Isabelle Wilkins, MD

The objectives of this session are to: (1) evaluate new and challenging obstetric cases in ultrasound; (2) receive audience responses for diagnosis; (3) discuss differential diagnosis and management of challenging cases; and (4) describe the use of magnetic resonance imaging as an adjunct to ultrasound in managing difficult fetal cases.

Wednesday, March 25

1:00 PM–3:00 PM

Fetal Magnetic Resonance Imaging: Beyond Central Nervous System Malformations

Moderators: Christopher Cassady, MD, Wesley Lee, MD

Speakers: Christopher Cassady, MD, Beth Kline-Fath, MD, Wesley Lee, MD, Hernan Munoz, MD, Diane Twickler, MD

The objectives of this session are to: (1) evaluate challenging obstetric cases in which magnetic resonance imaging (MRI) and prenatal ultrasound are used in case diagnoses; (2) discuss a stepwise approach in evaluation of challenging fetal cases; (3) discuss imaging clues and pitfalls in common fetal abnormalities and when to refer a patient for fetal MRI; and (4) describe pros and cons of the use of MRI as an adjunct to ultrasound in managing difficult fetal cases.

Pediatric Ultrasound

Sunday, March 22

1:00 PM–3:00 PM

Contrast-Enhanced Ultrasound in Pediatrics

Moderator: Mary Beth McCarville, MD

Speakers: Kassa Darge, MD, PhD, Annamaria Deganello, MD, Christoph Dietrich, MD, Maria Sellars, MD

In this session, experts in pediatric contrast-enhanced ultrasound (CEUS) will discuss the current role of CEUS in the assessment of trauma, focal liver lesions, and voiding urosonography in children. The potential need for a pediatric CEUS registry and other regulatory issues will be discussed.

Special Interest Tracks

Monday, March 23

7:00 AM–8:00 AM

Gynecologic Ultrasound in Pediatrics

Moderator: Leann Linam, MD

Speakers: Leann Linam, MD, Nadia Mahmood, MD, Martha Munden, MD

This session will provide an evaluation through multiple cases presented by 2 lectures with information on neonatal, pediatric, and adolescent gynecologic ultrasound.

Monday, March 23

10:45 AM–12:00 PM

Perinatal Ultrasound and Magnetic Resonance Imaging Correlations (Fetus and Neonate)

Moderator: Harris L. Cohen, MD

Speakers: Carol Barnewolt, MD, Maria Calvo-Garcia, MD, Harris L. Cohen, MD, Teresa Victoria, MD

The session will have audience response images and cases of perinatal works in the neonatal head, neck, and chest, as well as abdomen and pelvis.

Tuesday, March 24

7:00 AM–8:00 AM

Topics in Pediatric Gastrointestinal Sonography

Moderator: Rob Goodman, MB, BChir

Speakers: Susan Back, MD, Rob Goodman, MB, BChir, Pallavi Sagar, MD

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

Wednesday, March 25

7:00 AM–8:00 AM

Problem-Oriented Symptom-Based Diagnostics in Pediatrics: The Role of Ultrasound

Moderator: Harris L. Cohen, MD

Speakers: Harris L. Cohen, MD, Harriet Paltiel, MD, Sara O'Hara, MD

The objective of this session is to review methods and thoughts in imaging for various pediatric symptoms, including vomiting, pelvic pain in adolescents, and abdominal pain in a child.

Wednesday, March 25

8:15 AM–10:15 AM

Hands-on Ultrasound in Pediatric Diagnosis and Therapy

Moderators: William Shiels, DO, Michel Di Pietro, MD

The objective of this session is to teach learners how to perform ultrasound-guided biopsy, joint injections, cyst aspiration, abscess drainage, and foreign body removal.

Wednesday, March 25

10:45 AM–12:00 PM

Ultrasound in the Critically Ill Child

Moderator: Brian Coley, MD

Speakers: Lynn Fordham, MD, Rob Goodman, MB, BChir, David McLario, MD, Eva Rubio, MD, James Tsung, MD, MPH

This session is designed to provide information and techniques for ultrasound evaluation in the critically ill, explaining ultrasound in pediatric critical care.

Wednesday, March 25

1:00 PM–3:00 PM

Musculoskeletal Ultrasound in Pediatrics

Moderator: Michael Di Pietro, MD

Speaker: Michael Di Pietro, MD

This session will provide a review of musculoskeletal ultrasound in pediatrics, including the spine, hips, and various joints.

Sonography

Sunday, March 22

8:00 AM–9:30 AM

Associated Injuries in the Sonography Profession

Moderator: J. Oscar Barahona, BS, RDMS

Speakers: J. Oscar Barahona, BS, RDMS, Kevin Evans, PhD, RT(R)(M)(B)(O), RDMS, RVS, Daniel Merton, BS, RDMS

This session will be a presentation of images of various musculoskeletal injuries related to the ultrasound profession.

Sunday, March 22

1:00 PM–3:00 PM

Teaching Aspects of Musculoskeletal Ultrasound: How to Get Started, Pearls, and Pitfalls

Moderator: Patrick Meyers, BS, RDMS, RDCS, RVT

Speaker: Patrick Meyers, BS, RDMS, RDCS, RVT

This session will describe aspects of teaching and learning musculoskeletal tools: basics in the process of learning musculoskeletal ultrasound.

Sunday, March 22

3:30 PM–5:30 PM

Doing the Right Moves for Living Pain Free as a Sonographer

Moderator: Mark Roozen, MEd, CSCS,*D, NSCA-CPT

Speakers: Mark Roozen, MEd, CSCS,*D, NSCA-CPT, Doug Wueben, BA, AS, RDCS

This session is designed to show individuals how to incorporate exercise into their life along with following sound ergonomic principals and using the right equipment to eliminate pain during their job.

Therapeutic Ultrasound

Monday, March 23

1:00 PM–3:00 PM

High-Intensity Therapeutic Ultrasound

Moderator: Keith Wear, PhD

Speakers: Vera Khokhloua, PhD, Stephen Monteith, MD, William Roberts, MD, Gail ter Haar, MA, DSC, MSC, PhD

This session will cover recent advances in high-intensity therapeutic ultrasound, including histotripsy and magnetic resonance-guided focused ultrasound, with applications in the brain and prostate.

Special Interest Tracks

Ultrasound in Global Health

Monday, March 23 8:15 AM–10:15 AM

**WFUMB Ultrasound:
Crucial to Improve Global Health: Part 1**

Monday, March 23 10:45 AM–12:00 PM

**WFUMB Ultrasound:
Crucial to Improve Global Health: Part 2**

This 2-part session on Monday, March 23, will explore the crucial role ultrasound plays in global health. A panel of speakers representing a number of organizations will discuss their outreach activities.

Tuesday, March 24 8:15 AM–10:15 AM

Ultrasound in Global Health Lecture Series: Part 1

Moderator: Megan Leo, MD, RDMS

Speakers: Dan Kaminstein, MD, Ted Kuhn, MD, Andres Martinez-Ferandez, MD

This session will discuss the following topics: ultrasound of tropical disease; role of ultrasound in the management of human immunodeficiency virus and tuberculosis coinfections; healthy pregnancies: a prenatal care system in a backpack to reduce maternal mortality in developing countries; and international ultrasound research: review of the literature and strategy for success.

Tuesday, March 24 1:00 PM–3:00 PM

Ultrasound in Global Health Lecture Series: Part 2

Moderator: Megan Leo, MD, RDMS

Speakers: Michael Kawooya, MD, David MacKenzie, MD, Sudhir Vinayak, MD

See Part 1 above.

Ultrasound in Medical Education

Tuesday, March 24 10:45 AM–12:00 PM

Ultrasound in Undergraduate Medical Education: The Path Forward in Health Care. What Is the Role of Ultrasound in Undergraduate Medical Education?

Moderators: David Bahner, MD, RDMS, Michael Blaivas, MD, Donald DiSalvo, MD, J. Cristian Fox, MD, RDMS, John Pellerito, MD, Richard Hoppman, MD, Bruce Kimura, MD

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

Wednesday, March 25

8:15 AM–10:15 AM

**Ultrasound in Undergraduate Medical Education:
The Next Frontier**

Moderator: David Bahner, MD, RDMS

Speakers: Jennifer Cotton, J. Christian Fox, MD, RDMS, Chanel Fischetti, Richard Hoppmann, MD, Barry Knapp, MD, RDMS, Luca Neeri, MD

By the end of this session, participants will be able to (1) envision how the technological breakthrough of miniaturization and image quality has had and will have an effect on ultrasound practice in modern medicine; (2) understand the impact of this tool in helping the future clinician have the ability to use ultrasound to diagnose and treat common clinical problems (yet what is the quality of the education?); (3) describe areas in the medical education curriculum where ultrasound can be synchronized with existing goals and objectives in the preclinical and clinical experiences, specifically, anatomy, physiology, pathology, clinical rotations, procedural skills, and cadaveric simulations; (4) distinguish the essential elements in creating a hands-on experience with near peers, peer to peer, faculty to peer, and other hands-on interactions for teaching ultrasound; (5) examine the impact ultrasound can have in austere environments across the world as well as the first world due to more research and interest in this topic area; (6) examine how interest groups at medical schools can be focal points for research and collaboration; and (7) determine the role of the medical student in this process of ultrasound.

Ultrasound: Professional Development

Sunday, March 22

1:00 PM–3:00 PM

The Research Is Done: Now, How Do I Write and Submit the Manuscript?

Moderator/Speaker: Mark Lockhart, MD, MPH

Following this session, participants will: (1) understand the basic principles that will improve writing of a scientific manuscript; (2) know the steps of manuscript organization; (3) be aware of the basics of working with a team in the draft and edit process; and (4) understand how to choose a journal and how authors interact with journals after the manuscript is written.

Monday, March 23

1:00 PM–3:00 PM

Accreditation Tutorial

Moderator/Speaker: Therese Cooper, BS, RDMS, Director of AIUM Accreditation, Jennifer Drabo, BS, RDMS, Clinical Accreditation Coordinator

Learn about AIUM standards for examination protocols, personnel, quality assurance, record keeping, safety, and physical facilities. This workshop incorporates a hands-on session that shows the individual how to fill out the online application, upload images, and apply for accreditation.

International Offerings



At this year's meeting, we will offer courses in French and Spanish. For your convenience, the slides will be in English. We hope that these sessions encourage international attendees fluent in French or Spanish to attend this important world ultrasound meeting.

FRENCH SESSIONS

Echographie Fœtale: Quoi de Neuf en 2015

Dimanche, 22 Mars

Introduction: Role de la WFUMB, passé, présent et avenir, pour l'échographie foetale et le reste.

Hassen Gharbi, MD

Contrôle de qualité du dépistage de la trisomie 21 au 1^{er} Trimestre avec BioNuQual: les 2 premiers millions de résultats.

Philippe Coquel, MD

Echographie du 3^{ème} trimestre: une spécificité française.

Catherine Egoroff, MD

Infections foetales: les images-clés.

Elisabeth Bensaïd, DU

Echo fœtale en Tunisie, exemple de pays émergents: passé, présent, avenir, rôle de la coopération.

Kaouther Dimassi, MD

Quoi De Neuf en Échographie en 2015

Mardi, 24 Mars

Introduction: Que doit faire la WFUMB pour la promotion de la bonne échographie?

Michel Claudon, MD

L'intérêt de l'échographie dans l'espace en 2015, passé présent et avenir.

Philippe Arbeille, MD, PhD

L'échographie du sein en 2015: de la qualité de l'image à celle de l'interprétation.

Bruno Fornage, MD

Echographie obstétricale: Quoi de neuf en sûreté en 2015?

Jacques Abramowicz, MD

Les aspects récents de l'échographie rénale chez l'enfant et l'adulte.

Michel Claudon, MD

SPANISH SESSIONS

Ultrasonido General

Martes, 24 de marzo

El objetivo de este curso es hacer una revisión detallada de los temas en la ecografía hepática. Temas como lesiones hepáticas focales, difusa, hipertensión portal, intervención guiada por ecografía, elastografía se abordarán.

Fue diseñado para atender a las audiencias latinas, y se impartirá en español, los charlantes son de origen latino, y fue organizado por FLAUS. Sin embargo se le solicite los speakers que las diapositivas están en Inglés / Español para que otros participantes que deseen tomar el curso también puede seguir las clases sin dificultad.

Moderador: Túlio Augusto Alves Macedo, MD

Lesiones Hepáticas Focales Benignas

Túlio Augusto Alves Macedo, MD

Lesiones Hepáticas Focales Malignas

María Cristina Chammas, MD, PhD

Hipertensión Portal

Osmar Saito, MD, PhD

Ultrasonido En El Intervención Hepatica

Jorge Rabbat, MD

Elastografía hepática

Leandro Fernandez, MD

Temas y Controversias en el Ultrasonido Obstetrico

Martes, 24 de marzo

Moderador: Luis Izquierdo, MD, MBA, CPE

Hablantes: Ramon Battaglia Araujo, MD, Edwin Guzman, MD, Dibe Martin, MD, Ana Monteagudo, MD, RDMS, Hernan Munoz, MD, Waldo Sepulveda, MD

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

Learn and connect with colleagues
from around the world.

2015 Planning Committee



aium²⁰¹⁵
hosting WFUMB

MARCH 21–25

Bryann Bromley, MD
WFUMB/AIUM Planning Committee
Chair

Christian Nolsøe, MD, PhD
WFUMB/AIUM Planning Committee
Vice Chair

Reem Abu-Rustum, MD
David Bahner, MD, RDMS
Nasrin Benion, RDMS
Genevieve Bennett, MD
Creagh Boulger, MD
Susan Campbell Westerway, PhD
Maria Cristina Chammas, MD, PhD
Wui Chong, MD, FRCR
Phyllis Glanc, MDCM, BSC, FRCPC
Luis Izquierdo, MD, MBA, CPE
Michael Kawooya, MD
Seung Hyup Kim, MD
Wesley Lee, MD

Rochelle Andreotti, MD
AIUM Liaison

Joan Mastrobattista, MD
AIUM Annual Convention Committee
Chair

Mark Lockhart, MD, MPH
Anita Moon-Grady, MD
Christopher Moore, MD, RDMS, RDCS
Janet O'Brien, RDMS, PA-C
Harriet Paltiel, MD
Manuel Porto, MD
Julian Robinson, MD
Deborah Rubens, MD
Kal Sakhel, MD
Chandra Sehgal, PhD
James Shwayder, MD, JD
Mark Sklansky, MD
Chet Wells, MD

Social media is buzzing with the latest convention updates and information—don't miss a thing!



#aium15

Online Registration Only

How to Register

Online registration **ONLY** for the AIUM Annual Convention and Preconvention Program hosting the WFUMB Congress.

Register online at www.aium.org.

Instructions

- Registration fees are payable with submission of this online form.
- Registrations **cannot** be processed without payment.
- Early bird registration fees end February 9.
- Registrations will be accepted online until **March 6, 2015**.
- After March 6, 2015, attendees must register on-site.
- Registered guests/spouses will be allowed access only to the Exhibit Hall.

Preconvention Registration Fees

Full-Day Courses	On or Before 2/9/15	After 2/9/15
AIUM/WFUMB* Member Physician	\$400	\$450
AIUM/WFUMB* Member Nonphysician	\$275	\$325
AIUM Student/Resident/Fellow Member	\$250	\$250
Nonmember	\$650	\$700

Half-Day Courses

AIUM/WFUMB* Member Physician	\$235	\$285
AIUM/WFUMB* Member Nonphysician	\$135	\$185
AIUM Student/Resident/Fellow Member	\$125	\$125
Nonmember	\$350	\$400

Convention Registration Fees

	On or Before 2/9/15	After 2/9/15
AIUM/WFUMB* Member Physician	\$1,000	\$1,100
AIUM/WFUMB* Member Nonphysician	\$900	\$1,000
Nonmember Physician	\$1,315	\$1,415
Nonmember Nonphysician	\$1,070	\$1,170
AIUM Student/Resident/Fellow Member	\$500	\$575
Guest/Spouse	\$220	\$220
Hands-on Sessions	\$50 per session	
Three- and Four-Dimensional Volume Data Set Manipulation Sessions	\$30 per session	
Dinner and Karaoke (7:00 PM–10:00 PM, March 23)	\$50	

*If you are a member of the AIUM, AFSUMB, EFSUMB, FLAUS, MASU, or ASIUM or their affiliates, then you are also a member of WFUMB.

Convention registration fees cover attendance to all sessions held Sunday, March 22, through Wednesday, March 25 (excluding Three- and Four-Dimensional Volume Data Set Manipulation and Hands-on Special Interest Sessions), lunch all 4 days, and refreshment breaks with beverages and snacks.

Questions?

Contact the AIUM's Professional Development Department at conv_edu@aium.org. Or call **1-800-638-5352/301-498-4100**.

GE Healthcare



OUR LEGACY OF INNOVATION ENTERS A NEW ERA

The latest in our Expert Series, the Voluson™ E10 ultrasound system is designed for the advanced women's health practice. Where complex cases are the rule, not the exception. Where patients come to you for confident answers.

The new Voluson E10 is based on the innovative Radiance System Architecture that sets new standards in Imaging Performance* by providing spectacular 2D and 3D/4D images; excellent penetration for your technically difficult exams; new volume imaging tools and advanced applications to help you address your most difficult cases.

The Voluson E10 is also the foundation for our new Voluson e4D technology. The Radiance System Architecture together with the first commercially available curved matrix electronic 4D probe, eM6C, deliver ultra-fast volume rates, flexible imaging formats and the excellent resolution you have come to expect from a Voluson.



Our images are truly extraordinary – visit us on www.voluson.com

©2014 General Electric Company – All rights reserved. Voluson is a trademarks of General Electric Company or one of its subsidiaries.
*Compared to Voluson Expert BT13