



37th Annual Advanced Ultrasound Seminar: Ob/Gyn

February 13–15, 2014
Walt Disney World
Swan and Dolphin Resort
Lake Buena Vista, Florida

Preconference Workshops

Wednesday, February 12, 2014

Physics Refresher and Update:
Imaging and Doppler Principles
Nuchal Translucency Credentialing Course

Program Codirectors

Lennard D. Greenbaum, MD
Frederick W. Kremkau, PhD

Invited Guest Faculty

Carol B. Benson, MD
Greggory DeVore, MD
Peter M. Doubilet, MD, PhD
Lawrence D. Platt, MD
Leslie Scoutt, MD
James M. Shwayder, MD, JD

Earn up to 13.5 AMA PRA Category 1 Credits™
(accepted by the ARDMS) or ARRT Category A Credits.

AMERICAN INSTITUTE OF ULTRASOUND IN MEDICINE

In Collaboration With

 **Wake Forest™**
School of Medicine



37th Annual

Advanced Ultrasound Seminar: Ob/Gyn

Earn up to 13.5 *AMA PRA Category 1 Credits™* (accepted by the ARDMS) or ARRT Category A Credits.

Course Description

An intense 3-day conference will be presented to illustrate the latest principles and techniques in obstetric and gynecologic ultrasound. The topics will be presented by leaders in the field of diagnostic ultrasound. Commercial exhibits will display state-of-the-art ultrasound equipment, supplies, and educational materials.

Course Objectives

At the conclusion of this CME activity, participants should be better able to:

- Apply current issues and concerns in the use of clinical and technical ultrasound;
- Compare and relate ultrasound knowledge and skills with peers; and
- Practice the latest instrumentation and techniques in obstetric and gynecologic ultrasound.

Target Audience

This course is designed to meet the needs of physicians, sonographers, and other health care providers who use obstetric and gynecologic ultrasound.

This activity addresses the following learner attributes:

- Patient care and procedural skills;
- Medical knowledge; and
- Practice-based learning and improvement.

This course is designed to change competence and performance.



Preconference Workshops (Optional)

Wednesday, February 12, 2014

Physics Refresher and Update: Imaging and Doppler Principles

8:00 AM–12:00 PM

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

This refresher and update is presented by Frederick W. Kremkau, PhD, professor and director of the Program for Medical Ultrasound at Wake Forest School of Medicine, past president of the AIUM, and author of *Diagnostic Ultrasound Principles and Instruments*, now in its eighth edition.

This workshop covers the major topics involved in how modern ultrasound imaging and Doppler ultrasound work. Recent technological advances are included. The course serves 3 purposes:

1. It provides an introduction for participants who are new to the field;
2. It provides a review and update of recent technological advances for practicing physicians, sonographers, and other health professionals; and
3. It provides a brief review for participants preparing for the Sonography Principles and Instrumentation examination administered by the American Registry for Diagnostic Medical Sonography.

At the conclusion of this activity, participants should be better able to:

- Explain how ultrasound interacts with tissue, how transducers work, and how sonographic and Doppler instruments produce displays from echoes;
- Discuss how these principles apply to clinical practice; and
- Recognize common artifacts.

Schedule

All lectures presented by Frederick W. Kremkau, PhD.

7:30 AM–8:00 AM	Registration and Continental Breakfast
8:00 AM–10:00 AM	Principles of Sonography Ultrasound Transducers Instruments Artifacts
10:00 AM–10:15 AM	Break
10:15 AM–11:45 AM	Doppler Principles Doppler Effect Color Doppler Instruments Spectral Doppler Instruments Artifacts
11:45 AM	Adjourn

Preconference Workshops (Optional)

Wednesday, February 12, 2014

Nuchal Translucency Credentialing Course

1:00 PM–5:00 PM

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

Nuchal translucency (NT) measurement in association with first-trimester biochemistry has been shown to be an excellent screening modality for chromosomal abnormalities in the fetus. The Perinatal Quality Foundation (<http://www.perinatalquality.org>) recognizes the need for quality assurance in the area of first-trimester risk assessment and presents this educational course with the AIUM. This program is designed for physicians, sonologists, and sonographers and meets the educational course requirement component of credentialing by the Nuchal Translucency Quality Review Program (NTQR).

At the conclusion of this CME activity, the participant should be better able to:

- Describe the evidence that supports first-trimester risk assessment;
- Discuss and compare protocols for first- and second-trimester combined risk assessment;
- Discuss recommendations of ACOG Practice Bulletin 77, titled *Screening for Fetal Chromosomal Abnormalities*, and how to implement the recommendations in a variety of practice settings;
- Contrast competency requirements for NT and nasal bone measurements;
- Discuss risk assessment in multiple pregnancies;
- Specify fetal syndromes, conditions, and anatomic malformations that may be detected with first-trimester examinations;
- Describe the critical requirements for obtaining and maintaining reproducible and accurate NT measurements;
- Describe image criteria for assessment of the nasal bone;
- Critique NT and nasal bone images; and
- State requirements for credentialing through the NTQR.

NTQR Certification

The Nuchal Translucency Credentialing Course fee also includes charges to register on the NTQR website (<http://www.ntqr.org>) and become certified by the NTQR after electronic images are submitted. Attendees will be given a promotional code for online certification (Note: If hard copy images are submitted, there will be an additional \$20 payable to the NTQR.)

Jean Lea Spitz, MPH, CAE, RDMS

Executive Director
Perinatal Quality Foundation
Professor Emeritus, University of Oklahoma
Oklahoma City, Oklahoma

Lawrence D. Platt, MD

Professor
David Geffen School of Medicine at UCLA
Center for Fetal Medicine and Women's Ultrasound
Los Angeles, California

Welcome

Jean Lea Spitz, MPH, CAE, RDMS

Lecture 1	Screening for Down Syndrome
Lecture 2	Technical Aspects of NT
Lecture 3	Combining First- and Second-Trimester Risk Assessment
Lecture 4	Additional Benefits
Lecture 5	Quality Monitoring

Register online at www.aium.org

Program Schedule

Thursday, February 13, 2014

7:00 AM

Breakfast

7:55 AM

Welcome

*Lennard D. Greenbaum, MD,
Frederick W. Kremkau, PhD*

8:00 AM–8:40 AM

Assessment of Fetal Anatomy in the First Trimester

Carol B. Benson, MD

8:40 AM–9:20 AM

Mistakes to Avoid in the First Trimester

Peter M. Doubilet, MD, PhD

9:20 AM–10:00 AM

Cell-Free DNA (Noninvasive Prenatal Testing): What It Is and Its Impact on Clinical Practice

Lawrence D. Platt, MD

10:00 AM–10:15 AM

Questions and Answers

10:15 AM–10:45 AM

Break

10:45 AM–11:25 AM

Placenta, Cord, and Amniotic Fluid

Peter M. Doubilet, MD, PhD

11:25 AM–12:05 PM

The Cervix in Pregnancy

Lawrence D. Platt, MD

12:05 PM–12:45 PM

Three-Dimensional Ultrasound in Obstetrics

Carol B. Benson, MD

12:45 PM–1:00 PM

Questions and Answers

1:00 PM

Adjourn

Friday, February 14, 2014

7:00 AM

Breakfast

8:00 AM–8:40 AM

Genetic Ultrasound: What Role Does It Play in Today's Diagnostic Milieu?

Greggory DeVore, MD

8:40 AM–9:20 AM

Fifty Shades of Gray

Lawrence D. Platt, MD

9:20 AM–10:00 AM

Diagnosis and Treatment of Unusual Ectopic Pregnancies

Peter M. Doubilet, MD, PhD

10:00 AM–10:15 AM

Questions and Answers

10:15 AM–10:45 AM

Break

10:45 AM–11:25 AM

Fetal Interventional Procedures

Carol B. Benson, MD

11:25 AM–12:05 PM

Should We Do More Than We Are Paid For?

Greggory DeVore, MD

12:05 PM–12:45 PM

Liability in Obstetric and Gynecologic Ultrasound

James M. Shwayder, MD, JD

12:45 PM–1:00 PM

Questions and Answers

1:00 PM

Adjourn

Saturday, February 15, 2014

7:00 AM

Breakfast

8:00 AM–8:40 AM

Fetal Echocardiograms: What Should the Screener Be Doing?

Greggory DeVore, MD

8:40 AM–9:20 AM

Ultrasound Evaluation of Gynecologic Causes of Pelvic Pain

Leslie Scoutt, MD

9:20 AM–10:00 AM

Sonohysterography

James M. Shwayder, MD, JD

10:00 AM–10:15 AM

Questions and Answers

10:15 AM–10:45 AM

Break

10:45 AM–11:25 AM

Ultrasound First! The Role of Ultrasound in the Evaluation of Nongynecologic Causes of Pelvic Pain

Leslie Scoutt, MD

11:25 AM–12:05 PM

Ultrasound Evaluation of Abnormal Uterine Bleeding

James M. Shwayder, MD, JD

12:05 PM–12:45 PM

Ultrasound Evaluation of the Anal Sphincter

Leslie Scoutt, MD

12:45 PM–1:00 PM

Questions and Answers

1:00 PM

Adjourn

Questions? Call the AIUM at 800-638-5352 or 301-498-4100

Faculty

Program Codirectors

Lennard D. Greenbaum, MD

Past President, AIUM
Codirector
The Hughes Center for Fetal Diagnostics
Winnie Palmer Hospital for Women & Babies
Orlando Health
Orlando, Florida

Frederick W. Kremkau, PhD

Past President, AIUM
Professor and Director, Program for
Medical Ultrasound
Center for Applied Learning
Wake Forest School of Medicine
Winston-Salem, North Carolina

Guest Faculty

Carol B. Benson, MD

Professor of Radiology
Harvard Medical School
Director of Ultrasound
Codirector of High-Risk Obstetric Ultrasound
and Radiology
Director of the Noninvasive Vascular Laboratory
Brigham and Women's Hospital
Boston, Massachusetts

Greggory DeVore, MD

Clinical Professor, Department of Obstetrics
and Gynecology
David Geffen School of Medicine at UCLA
Los Angeles, California
Director
Fetal Diagnostic Centers
Pasadena, Tarzana, and Mission Hills, California
Director of Perinatology
Providence Tarzana Medical Center
Tarzana, California

Peter M. Doubilet, MD, PhD

Senior Vice Chair of Radiology
Brigham and Women's Hospital
Professor
Harvard Medical School
Boston, Massachusetts

Lawrence D. Platt, MD

Past President, AIUM
Professor
David Geffen School of Medicine at UCLA
Center for Fetal Medicine and Women's Ultrasound
Los Angeles, California

Leslie Scoutt, MD

Professor of Diagnostic Radiology and Surgery
(Vascular)
Medical Director, Noninvasive Vascular Laboratory
Chief, Ultrasound Service
Yale School of Medicine
Yale University
New Haven, Connecticut

James M. Shwayder, MD, JD

Professor and Chair, Department of Obstetrics
and Gynecology
University of Mississippi
Jackson, Mississippi

Jean Lea Spitz, MPH, CAE, RDMS

Executive Director
Perinatal Quality Foundation
Professor Emeritus, University of Oklahoma
Oklahoma City, Oklahoma





© Disney

Conference Location

Walt Disney World Swan and Dolphin Resort
1500 Epcot Resorts Blvd
Lake Buena Vista, FL 32830 USA

Accommodations

Walt Disney World Swan and Dolphin Resort
1500 Epcot Resorts Blvd
Lake Buena Vista, FL 32830 USA

Special rates starting at \$187 per night plus tax.

Reservations

A block of rooms has been reserved from February 11–16, 2014. In order to take advantage of this special rate, you must be registered for the meeting before you can reserve your hotel room. The link to make your hotel reservation can be found in your registration confirmation. Hotel rooms sell out early, so we encourage you to reserve your room early, but no later than January 22, 2014. All rooms are based on availability.

Transportation

Air

The Orlando International Airport is located approximately 23 miles from the Walt Disney World Swan and Dolphin Resort.

Ground

Hotel shuttles and rental cars from the airport are available on Level 1.

Special Discounted Disney Park Tickets:

Discounted Disney Park tickets and special offers are available to meeting attendees **only** at the online Disney Ticket Store until 9:00 PM on February 12, 2014. For more information and to purchase tickets, visit <http://www.mydisneymeetings.com/aium14/>.

Questions? Call the AIUM at 800-638-5352 or 301-498-4100

Continuing Medical Education (CME) Information

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:

- *37th Annual Advanced Ultrasound Seminar: Ob/Gyn* main conference, for a maximum of 13.5 AMA PRA Category 1 Credits™;
- One day of the *37th Annual Advanced Ultrasound Seminar: Ob/Gyn* main conference for a maximum of 4.5 AMA PRA Category 1 Credits™ each day;
- *Physics Refresher and Update: Imaging and Doppler Principles* optional workshop for a maximum of 3.5 AMA PRA Category 1 Credits™; and
- *Nuchal Translucency Credentialing Course* optional workshop for a maximum of 3.5 AMA PRA Category 1 Credits™.

Physicians should only claim credit commensurate with the extent of their participation in the activity.

American College of Obstetricians and Gynecologists (ACOG)

The American College of Obstetricians and Gynecologists has assigned 14 cognate credits to this program.

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 Credits™.

American Registry of Radiologic Technologists (ARRT)

The AIUM is a Recognized Continuing Education Evaluation Mechanism (RCEEM) for the ARRT. This educational activity is approved by the AIUM for ARRT Category A Credits.

Disclosure Policy

As a provider accredited by the ACCME, the AIUM must ensure balance, independence, objectivity, and scientific rigor in all its activities. Anyone involved in planning this CME activity is required to disclose to learners any relevant financial relationships that have occurred within the last 12 months with any commercial interest(s) whose products or services are discussed in the CME content. A commercial interest is any entity producing, marketing, reselling, or distributing health care goods or services consumed by, or used on patients. Such relationships are defined by remuneration paid to you or your spouse/partner in any amount from the commercial interests in the form of grants; research support; consulting fees; salary; ownership interest (eg, stocks, stock

options, or ownership interest excluding diversified mutual funds); honoraria or other payments for participation in speakers bureaus, advisory boards, or boards of directors; and other financial benefits. Individuals involved in planning will be asked to recuse themselves from any portion of the planning where a bias might exist.

All faculty participating in an educational activity provided by the AIUM are required to disclose to the provider and to the learner any relevant financial relationships with any commercial interest. The AIUM must determine whether the faculty's relationships may influence the educational content with regard to exposition or conclusions and resolve any conflicts of interest before the commencement of the educational activity. The intent of this disclosure is not to prevent faculty with relevant financial relationships from serving as faculty but rather to provide members of the audience with information on which they can make their own judgments.

Policy on Unlabeled/Off-Label Usage

The AIUM has determined that disclosure of unlabeled/off-label or investigational use of commercial products is informative for audiences and therefore requires this information to be disclosed to the learners at the beginning of the presentation. Uses of specific therapeutic agents, devices, and other products discussed in this educational activity may not be the same as those indicated in product labeling approved by the US Food and Drug Administration. The AIUM requires that any discussions of such "off-label" use be based on scientific research that conforms to generally accepted standards of experimental design, data collection, and data analysis. Before recommending or prescribing any therapeutic agent or device, learners should review the complete prescribing information, including indications, contraindications, warnings, precautions, and adverse events.

Disclaimer

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

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 regulation 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.

Disclosures for this Activity

The faculty, committee members, and AIUM staff involved in planning this CME activity have completed a Disclosure of Financial Relationship form.

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Please type or print

AIUM Member ID # _____
First Name _____
Last Name _____
Degree(s) _____
Address _____
City, State, Postal Code _____
Phone _____ Fax _____
E-mail _____

Profession

☐ Physician Medical Board Certification _____
☐ Sonographer ☐ RDMS ☐ RVT ☐ RDCS
☐ Other _____

Registration Fees

Optional Workshops (Wednesday, February 12, 2014)

Physics Refresher and Update: Imaging and Doppler Principles | 8:00 AM–12:00 PM
☐ \$100.00

Nuchal Translucency Credentialing Course | 1:00 PM–4:00 PM

Physician ☐ \$350*
Sonographer ☐ \$300*

*The above fee includes charges to become certified by the NTQR (www.ntqr.org) when electronic images are submitted. If hard copy images are submitted, there will be an additional \$20 payable to the NTQR.

Main Seminar (Thursday, February 13–Saturday, February 15, 2014)

Physician ☐ \$650
Resident ☐ \$550
Nonphysician ☐ \$550
One day ☐ \$250 Please circle only 1: Thursday, Friday, Saturday

Main seminar registration fees include breakfast and refreshment breaks on Thursday, Friday, and Saturday. A printed syllabus will be provided.

Total Fees: \$ _____

Not an AIUM member?

Join today to stay informed with the latest information in medical ultrasound. Members benefit from both a print and online subscription to the *Journal of Ultrasound in Medicine (JUM)*, free CME credits for online submission of *JUM* self-study tests, and other discounted CME opportunities. For the full listing of member benefits and to join online, visit www.aium.org.

Payment

☐ Check enclosed payable to the AIUM in US dollars.

Credit Card ☐ VISA ☐ MasterCard ☐ American Express

Credit Card # _____

Credit Card Billing Address Postal Code _____

Signature _____

Expiration Date _____

Card Security Code _____

(3- or 4-digit value printed on the front of the card or signature strip)

Register online at www.aium.org or return form to:

American Institute of Ultrasound in Medicine
Attn: 37th Annual Advanced Ultrasound Seminar: Ob/Gyn
14750 Sweetzer Ln, Suite 100
Laurel, MD 20707-5906 USA
Phone: 800-638-5352 or 301-498-4100
Fax: 301-498-4450
Website: www.aium.org

AIUM Office Use:

Date Paid _____
Check # _____
Payee _____

Cancellation Policy

Due to advance planning requirements, cancellations must be submitted in writing by e-mail to ddelanko@aium.org by Friday, February 3, 2014. There is a \$100 cancellation fee. After February 3, 2014, no refunds will be issued. In the unlikely event that the program is cancelled, seminar registration fees will be refunded; however, the AIUM is not responsible for any travel or hotel costs you may incur.

Videotaping and Photography Policy

The AIUM does not allow any unauthorized videotaping or photography during the event except by management and its designated agents. The AIUM reserves the right to photograph or videotape any exhibits or attendee for use in promotional materials or any other AIUM publication. The AIUM may videotape educational courses for inclusion in the AIUM's educational video program library.

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