This advanced sonography course will provide OB/GYN ultrasound practitioners with insights into the screening, diagnosis, and management of fetal anomalies via 2-D, 3-D, 4-D, Doppler, & inversion testing. There will be an in-depth focus on fetal echocardiography, Doppler, and fetal neu-ronosonology. In addition, one morning session will be devoted to advances in gynecologic ultrasound including the evaluation of patients with pelvic pain and bleeding.

- **GYN ADVANCES:** 3-D ultrasound, sonoangiography, the endometrial echo, pelvic masses
- **1ST TRIMESTER FETUS:** the fetal heart, the central nervous system
- **FETAL ASSESSMENT:** comprehensive overview of fetal malformations, assessment of fetal well being using growth parameters and Doppler techniques
- **TWO INTERACTIVE SESSIONS:** 1) discussion about fetal aneuploidy markers, 2) debate about whether or not to disclose to the patient the presence of minor markers
- **INTERESTING CASES:** The last session of the course will be a compendium of interesting obstetrical cases with audience participation
- **CPT CODING:** optimizing collections

Delivered by internationally-recognized OB/GYNs and radiologists, all lectures will be illustrated by slides and video clips. Since each topic is presented in a single theatre, registrants have the opportunity to attend every event. Classroom seating (tables & chairs) will be provided for all. Attendees will receive a syllabus of all lectures and a self-examination based on the course material. Continental breakfasts, two formal lunch-eons, and daily morning and afternoon refreshment breaks are all included in the course fee.

Exhibitors of ultrasound equipment, software and books relating to OB/GYN sonography will be present for the duration of the symposium. Harvard Medical School is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

Harvard Medical School designates this educational activity for a maximum of 18 AMA PRA Category 1 Credit(s)™. Physicians should only claim credit commensurate with the extent of their participation in the activity. This offering also meets the criteria for 18 Formal Learning Cognates of ACOG and 18 CME units of the ARDMS. Dr. Benacerraf and Dr. Benson will direct a subsequent OB/GYN symposium in Boston in October 5-7, 2012.

**REGISTRATION INFORMATION:**

Tuition Fee: $750 (USD). All foreign payments must be made by a draft on a United States Bank or by Visa or MasterCard. If paying by check, please make payable to Harvard Medical School and mail with completed registration form to: Harvard Medical School-Department of Continuing Education, P.O. Box 825, Boston, MA 02117-0825. If paying by credit card, please register online at www.cme.hms.harvard.edu/courses/advancedsonography. Telephone, fax or mail-in registration with credit card payment is not accepted. Inquiries should be directed to the address above, made by phone: (617) 384-8600, Monday-Friday, 10 AM to 4 PM (EST); or by email: hms-cme@hms.harvard.edu. Upon receipt of your registration form an email confirmation from the HMS-DCE office will be sent to you. Therefore, be sure to include an email address that you check daily/frequently. Your email address is used for critical information about the course including registration confirmation, course evaluation and certificate.

**ONLINE INFORMATION:**

To register or view course information online, visit: www.cme.hms.harvard.edu/courses/advancedsonography. To ensure proper registration, please add the first three characters of the source code found at the bottom of the reg-

**REFUND POLICY:**

A handling fee of $60 is deducted for cancellation. Refund requests must be received by mail or fax one week prior to the course. No refunds will be made thereafter.

Please Note: Program charges/substitutions may be made without notice.

**COURSE LOCATION:**

All sessions will be held at The Boston Marriott Long Wharf, 296 State Street, Boston, MA 02109

(Telephone: 617-227-0800 or 1-800-228-9250).

**ACCOMMODATIONS:**

Lodging will be the personal responsibility of each registrant. Participants are strongly encouraged to reserve their hotel rooms early. A limited block of hotel rooms is being held temporarily at The Long Wharf Marriott, where the symposium takes place. To make a hotel room reservation at our reduced rate of $289 per room per night, until September 10, 2010, please call the hotel at 1-800-228-9250 or 617-227-0800, and specify that you are enrolling in the ADVANCED SONOGRAPHY SYMPOSIUM.

**TRAVEL:**

Please do not make non-refundable airline reservations until your enrollment in the course has been confirmed. You can make your airline reservation by calling the HMS Travel Desk toll free (1-877) 4-HARVMD (1-877-442-7863) Monday - Friday 9 AM - 8 PM (EST). From outside the U.S., Canada and Virgin Islands, please call (617) 559-3764.

**ATTENDANCE INSTRUCTIONS:**

Students are expected to complete the self-examination and complete at least 60% of the lecture sessions. Please note that a minimum of 70% must be completed in order to claim credit commensurate with the extent of their participation in the activity.

Registrations paid by credit card may be made online at: www.cme.hms.harvard.edu/courses/advancedsonography

Online registrants—add the first three characters of the source code here →

Source Code: XZZ

**ADDRESS INFORMATION:**

Harvard Medical School, Department of Continuing Education, P.O. Box 825, Boston, MA 02117-0825

Program on Reverse Side

**Check is enclosed:** Please make your check payable to Harvard Medical School and mail it with this registration form to: Harvard Medical School, Department of Continuing Education, P.O. Box 825, Boston, MA 02117-0825

Full Name ______________________ Degree ______________________

First Name ___________________ Middle Initial _______________ Last Name ___________________

Mailing Address __________________________________________________________________________

State ______________ Zip Code ______________

Daytime Phone (________) ___________________ Fax Number (________) ___________________

PLEASE NOTE: Your email address is used for critical information about the course including registration confirmation, course evaluation and certificate. Please be sure to include a check mark indicating that you wish to receive email notices of future Harvard Medical School, Department of Continuing Education programs.

Primary Specialty (Physicians Only) ___________________ Board Certified: Yes ☐ No ☐

Profession ________________________

Professional School Attended ________________________ Year of Graduation ________________________

Organization Affiliation _____________________________________________________________________

E-Mail Address ___________________________________________________________________________
Advanced Sonography Symposium in OB/GYN

Program of Events

Friday, October 1, 2010

7:00 - 8:00 AM REGISTRATION & CONTINENTAL BREAKFAST

ADVANCES IN GYN SONOGRAPHY

Moderator: Beryl Benacerraf

8:00 - 8:30 Incidental Findings in GYN ultrasound ................................................................. Steven Goldstein
8:30 - 9:00 The Sonographic Evaluation of the Patient with Pelvic Pain ..................................................... Beryl Benacerraf
9:00 - 9:30 What is the Normal Width of the Endometrial Echo? ............................................................ Steven Goldstein
9:30 - 10:00 Ectopic Pregnancy ........................................................................................................ Peter Doubilet
10:00 - 10:15 Questions and Answer Period

10:15 - 10:45 COFFEE BREAK & EXHIBITS

10:45 - 11:20 Adrenal Masses and Cysts – What’s Important and How to Arrive at a Diagnosis ......................................................... Mary Frates
11:20 - 12:00 3D in GYN Including Ovarian Sonoangiography ........................................................... Ilan Timor-Tritsch
12:00 - 12:15 Questions and Answer Period

12:15 - 1:30 LUNCH & VISIT EXHIBITS

THE FETAL HEART

Moderator: Carol Benson

1:30 - 2:05 Fetal Cardiac Anatomy Normal and Abnormal ........................................................................... Alfred Abuhamad
2:05 - 2:40 Pulse and Color Doppler of the Fetal Heart ................................................................................... Gregory DeVore
2:40 - 3:15 Cardiac Arrhythmias ....................................................................................................................... Joshua Copel
3:15 - 3:45 COFFEE BREAK & EXHIBITS

3:45 - 4:20 1st Trimester Fetal Echocardiography ............................................................................................. Alfred Abuhamad
4:20 - 4:55 3D/4D of the Fetal Heart (Cases Presentations) ............................................................................ Gregory DeVore
4:55 - 5:15 Questions and Answer Period

Saturday, October 2, 2010

7:00 - 8:00 AM CONTINENTAL BREAKFAST

FETAL BRAIN

Moderator: Bryann Bromley

8:00 - 8:40 The Central Nervous System at 11-13 Weeks .............................................................................. Gianluigi Pilu
8:40 - 9:10 Posterior Fossa Anomalies ........................................................................................................... Bryan Bromley
9:10 - 9:40 Agnieszka of the Corpus Callosum and Avent Septum Pellucidum ................................................. Gianluigi Pilu
9:40 - 10:15 Can 3D Help for the Evaluation of the Brain? .............................................................................. Ilan Timor-Tritsch
10:15 - 10:30 Questions and Answer Period

10:30 - 11:00 COFFEE BREAK & VISIT EXHIBITS

11:00 - 11:30 Abnormalities of the Fetal Face - 2D and 3D .............................................................................. Beryl Benacerraf
11:30 - 12:00 Coding and Getting Paid for Doing Ultrasound ........................................................................... Joshua Copel
12:00 - 12:15 Questions and Answer Period

12:15 - 1:30 LUNCH & VISIT EXHIBITS

Moderator: Thomas Shipp

1:30 - 2:00 Doppler in the Assessment of IUGR ............................................................................................. Giancarlo Mari
2:00 - 2:30 Invasive Procedures in Obstetrics with Emphasis on Uterine Treatment of Fetuses with Cardiac Anomalies ..................................................................................................................... Carol Benson
2:30 - 3:00 Cardiovascular Changes in the Anemic Fetus ................................................................................. Gianluigi Pilu
3:00 - 3:15 Questions and Answer Period

3:15 - 3:45 COFFEE BREAK & VISIT EXHIBITS

3:45 - 4:15 1st and 2nd Trimester Ultrasound Screening for Down Syndrome – Can They Be Combined? ......................................................................................................................... Bryan Bromley
4:15 - 4:45 Debate: Should Patients be told about an Echocardiographic Focus on an Otherwise Normal Ultrasound? ............................................................................................................................... Peter Doubilet and Beryl Benacerraf
4:45 - 5:15 Genetic Screening including Serum Testing and Genetic Counseling – The Brigham Experience ........ Louise Wilkins-Haug
5:15 - 5:30 Questions and Answer Period

Sunday, October 3, 2010

7:00 - 8:00 AM CONTINENTAL BREAKFAST

FETAL ANOMALIES

Moderator: Thomas Shipp

8:00 - 8:40 Twins and Higher Multiples – The Trouble with Sharing ............................................................... Peter Doubilet
8:40 - 9:20 Fetal Skeletal Malformations ......................................................................................................... Carol Benson
9:20 - 10:00 Borderline Findings Including Two-Vessel Cord, Nuchal Cord, Umbilical Venous Varix, Chorioangiomiocapillarum, Separation, Intra-abdominal Calcifications, among Others ........................................ Bryan Bromley
10:00 - 10:15 Questions and Answer Period

10:15 - 10:45 COFFEE BREAK & VISIT EXHIBITS

10:45 - 11:15 Abnormalities of the Genitourinary Tract ..................................................................................... Thomas Shipp
11:15 - 12:00 Just Images – Interesting Cases – Pitfalls – Interactive ................................................................. Thomas Shipp and Beryl Benacerraf
12:00 - 12:15 Questions and Answer Period

GUEST FACULTY

Alfred Abuhamad, MD: Professor of Obstetrics and Gynecology, Chairman of the Department of Obstetrics and Gynecology, Eastern Virginia Medical School, Norfolk, VA

Joshua Copel, MD: Professor of Obstetrics, Gynecology and Reproductive Sciences, and of Pediatrics; Vice Chair for Obstetrics, Yale University School of Medicine, New Haven, CT

Gregory R. DeVore MD: Director, Fetal Diagnostic Center. Pasadena, CA

Steven R. Goldstein, MD: Professor of Obstetrics and Gynecology, Director of Gynecology Ultrasound, NYU School of Medicine, New York, NY

Giancarlo Mari, MD: Professor Obstetrics and Gynecology, University of Tennessee Health Science Center Memphis, TN

Gianluigi Pilu MD: Associate Professor of Obstetrics and Gynecology, University of Bologna, Bologna, Italy

Ilan E. Timor-Tritsch, MD: Professor of Obstetrics and Gynecology; Director, Division of Obstetrics and Gynecology Ultrasound, New York University School of Medicine, New York, NY

HARVARD MEDICAL SCHOOL FACULTY

Beryl R. Benacerraf, MD: Clinical Professor of Obstetrics and Gynecology, Clinical Professor of Radiology; High Risk Obstetrical Ultrasound, Brigham and Women’s Hospital, Boston, MA

Carol B. Olson, MD: Professor of Radiology: Director of Ultrasound, Co-Director of High Risk Obstetrical Ultrasound, Brigham and Women’s Hospital, Boston, MA

Bryann S. Bromley, MD: Associate Clinical Professor of Obstetrics and Gynecology; Department of Obstetrics and Gynecology, Massachusetts General Hospital and Department of Obstetrics and Gynecology, Brigham and Women’s Hospital, Boston, MA

Peter M. Doubilet, MD, PhD: Professor of Radiology; Senior Vice Chair of Radiology, Brigham and Women’s Hospital, Boston, MA

Mary C. Frates, MD: Associate Professor of Radiology; Assistant Director of Ultrasound, Brigham and Women’s Hospital, Boston, MA

Thomas D. Shipp, MD: Associate Professor of Obstetrics, Gynecology, and Reproductive Biology; High Risk Obstetrical Ultrasound, Brigham and Women’s Hospital, Boston, MA

Louise Wilkins-Haug, MD, PhD: Associate Professor of Obstetrics, Gynecology, and Reproductive Biology; Division Director for Maternal Fetal Medicine and Reproductive Genetics, Brigham and Women’s Hospital, Boston, MA