



# HARVARD MEDICAL SCHOOL

## DEPARTMENT OF CONTINUING EDUCATION

### ADVANCED SONOGRAPHY SYMPOSIUM IN OB/GYN

The Department of Radiology at the Brigham and Women's Hospital

**October 1 - 3, 2010**

at the

**Boston Marriott Long Wharf**

**Boston, Massachusetts**

Program Course Directors

**Beryl R. Benacerraf, MD and Carol B. Benson, MD**

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, & invasive testing. There will be in-depth focus on fetal echocardiography, Doppler and fetal neurosonology. 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
- **1<sup>st</sup> 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/GYN's 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 lunches, 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)**<sup>™</sup>. 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](http://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 above address, made by phone: (617) 384-8600, Monday-Friday, 10 AM to 4 PM (EST), or by email: [hms-cme@hms.harvard.edu](mailto: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](http://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 registration form.**

**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 changes/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 1-800-228-9290).

**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 1-800-228-9290 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 Limited

Program on Reverse Side

**ADVANCED SONOGRAPHY SYMPOSIUM IN OB/GYN** Class #301523

**October 1-3, 2010**

**Tuition Fee: \$750 (USD)**

Please Print Clearly. All Fields Required.

Full Name \_\_\_\_\_ Degree \_\_\_\_\_  
First Middle Initial Last

Mailing Address \_\_\_\_\_  
Street City 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 an email address you check daily or frequently.

E-Mail Address \_\_\_\_\_

Please check if you want to be **excluded** from receiving email notices of future Harvard Medical School, Department of Continuing Education programs.

Professional School Attended \_\_\_\_\_ Year of Graduation \_\_\_\_\_

Profession \_\_\_\_\_

Primary Specialty (Physicians Only) \_\_\_\_\_ Board Certified: Yes  No

Organization Affiliation \_\_\_\_\_

**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**

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

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

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# ADVANCED SONOGRAPHY SYMPOSIUM IN OB/GYN

## Program of Events

Friday, October 1, 2010

|                  |  |                             |
|------------------|--|-----------------------------|
| 7:00 - 8:00 AM   | REGISTRATION & CONTINENTAL BREAKFAST<br>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    | Adnexal Masses and Cysts – What's Important and How to Arrive at a Diagnosis ..... | Mary Frates                 |
| 11:20 - 12:00 PM | 3D in GYN Including Ovarian Sonoangiography .....                                  | Ilan Timor-Tritsch          |
| 12:00 - 12:15    | Questions and Answer Period  |                             |
| 12:15 - 1:30     | LUNCH & VISIT EXHIBITS<br>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 .....                                   | Greggory 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) .....                               | Greggory DeVore             |
| 4:55 - 5:15      | Questions and Answer Period  |                             |

Saturday, October 2, 2010

|                  |   |                                     |
|------------------|---|-------------------------------------|
| 7:00 - 8:00 AM   | CONTINENTAL BREAKFAST<br>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 .....   | Bryann Bromley                      |
| 9:10 - 9:40      | Agenesis of the Corpus Callosum and Absent 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 PM | 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 in Utero Treatment of Fetuses with<br>Cardiac Anomalies .....  | Carol Benson                        |
| 2:30 - 3:00      | Cardiovascular Changes in the Anemic Fetus .....  | Giancarlo Mari                      |
| 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? .....                        | Bryann Bromley                      |
| 4:15 - 4:45      | Debate: Should Patients be told about an Echogenic Intracardiac Focus on an<br>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<br>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, Chorioamniotic<br>Separation, Intra-abdominal Calcifications, among Others ..... | Bryann 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 PM | 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
- Greggory 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. Benson, 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