



Harvard Medical School  
 Department of Continuing Education  
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ULTRASOUND  
 April 12-14, 2012

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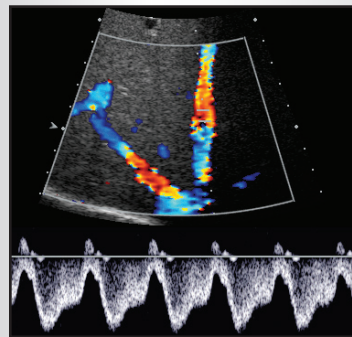
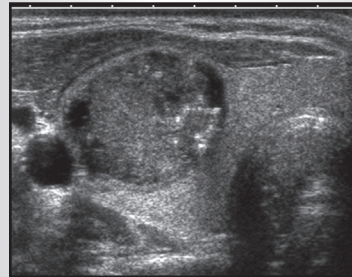
# ULTRASOUND 2012

## April 12 - 14, 2012

Westin Copley Place  
 Boston, Massachusetts

### PROGRAM DIRECTORS

Carol B Benson, MD  
 Peter M Doubilet, MD, PhD



Harvard Medical School  
 Department of Continuing Education



Brigham and Women's Hospital  
 Department of Radiology

## COURSE DESCRIPTION

Continued advances in ultrasound technology and diagnostic utility, including 3D and 4D sonography and Doppler, make it difficult for those who practice ultrasound to stay current and up-to-date on new techniques and diagnostic capabilities. The thirty-seventh annual course on Ultrasound includes one day of General and Vascular Ultrasound followed by two days devoted to Obstetrical and Gynecological Ultrasound.

Exhibitors of ultrasound equipment, software, and books will be present at the course.

## OBJECTIVES

The course will provide an up to date overview of current ultrasound practice and techniques.

Upon completion of the course, the practitioner will be able to:

- Use full capabilities of their ultrasound equipment
- Make more accurate diagnoses with ultrasound
- Use ultrasound in conjunction with other imaging modalities, when appropriate, to solve clinical problems
- Utilize ultrasound for guiding invasive procedures for biopsy and treatment

## KEY TOPICS

- First Trimester Emergency Ultrasound
- Nuchal Translucency Screening
- 3D and 4D in Obstetrical and Gynecologic Ultrasound
- Subtle and Transient Fetal Anatomic Findings
- Fetal Anomalies
- Fetal Echocardiology
- Multiple Gestations
- Adnexal Masses
- Uterus and Endometrium
- Diffuse and Focal Liver Disease
- Abdominal, Carotid, and Venous Doppler
- Thyroid and Parathyroid Ultrasound
- Scrotal Ultrasound

## WHO SHOULD ATTEND

The course is directed to radiologists, obstetrician/gynecologists, and other physicians whose scope of practice includes ultrasound, as well as sonographers.

## GUEST FACULTY

**Alfred Z Abuhamad, MD, FACOG:** Chairman, Department of Obstetrics and Gynecology, Professor of Obstetrics and Gynecology and Radiology, Vice Dean, Eastern Virginia Medical School, Norfolk, VA

**Douglas Brown, MD:** Professor of Radiology, Mayo Clinic College of Medicine, Rochester, MN

**Laurence Needleman, MD:** Associate Professor of Radiology, Jefferson Medical College; Director, Division of Abdominal Imaging, Medical Director, Non-invasive Vascular Lab, Thomas Jefferson University Hospital, Philadelphia, PA

**Mitchell E Tublin, MD:** Professor of Radiology, Chief of Abdominal Imaging, Director of Ultrasound, University of Pittsburgh, Pittsburgh, PA

## HARVARD MEDICAL SCHOOL FACULTY

**Beryl R Benacerraf, MD:** Clinical Professor of Obstetrics, Gynecology and Radiology; Brigham and Women's Hospital

**Carol B Benson, MD:** Professor of Radiology; Director, Division of Ultrasound, Co-Director, High Risk Obstetrical Ultrasound, Brigham and Women's Hospital

**Peter M Doubilet, MD, PhD:** Professor of Radiology; Senior Vice Chair of Radiology, Brigham and Women's Hospital

**Sara M Durfee, MD:** Assistant Professor of Radiology; Brigham and Women's Hospital

**Mary C Frates, MD, FACR:** Associate Professor of Radiology; Assistant Director, Division of Ultrasound, Brigham and Women's Hospital

**Robin P Goldenson, MD:** Instructor in Radiology; Brigham and Women's Hospital

**Howard T Heller, MD:** Instructor in Radiology; Brigham and Women's Hospital

**Hope E Peters, MD:** Instructor in Radiology; Brigham and Women's Hospital

**Julie Ritner, MD:** Instructor in Radiology; Brigham and Women's Hospital

**Mary A Warner, MD:** Instructor in Radiology; Brigham and Women's Hospital

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## THURSDAY, APRIL 12

7:00	Registration / Continental Breakfast	
<i>Moderator: Dr Doubilet</i>		
7:55	Welcome and Introduction	<i>Doubilet</i>
8:00	Thyroid and Parathyroid Ultrasound	<i>Frates</i>
8:40	Scrotal Ultrasound	<i>Heller</i>
9:20	Renal Sonography: Prospects for the Future	<i>Tublin</i>
10:00	COFFEE BREAK	
10:30	Doppler Waveforms and Artifacts	<i>Needleman</i>
11:10	Focal and Diffuse Liver Disease	<i>Tublin</i>
11:50	Questions and Answers	<i>Morning Speakers</i>
12:05	LUNCH RECESS	
<i>Moderator: Dr Goldenson</i>		
1:20	Liver Contrast Imaging	<i>Tublin</i>
1:40	Carotid Ultrasound	<i>Needleman</i>
2:20	Abdominal Doppler	<i>Benson</i>
3:00	COFFEE BREAK	
3:30	Upper and Lower Extremity Venous Ultrasound	<i>Needleman</i>
4:10	Gallbladder and Biliary Tree	<i>Goldenson</i>
4:40	Measurements in Abdominal Ultrasound	<i>Tublin</i>
5:00	Questions and Answers	<i>Afternoon Speakers</i>
5:15	Adjourn	

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## FRIDAY, APRIL 13

7:00	Continental Breakfast	
<i>Moderator: Dr Frates</i>		
7:55	Welcome and Introduction	<i>Doubilet</i>
8:00	Infertility	<i>Frates</i>
8:40	First Trimester Emergency Ultrasound	<i>Doubilet</i>
9:20	Adnexal Masses and Cysts	<i>Brown</i>
10:00	COFFEE BREAK AND VISIT EXHIBITS	
10:30	The use of 3D Ultrasound in Gynecology – The Beginning of a New Era!	<i>Benacerraf</i>
11:10	Nongravid Uterus and Endometrium	<i>Warner</i>
11:50	Questions and Answers	<i>Morning Speakers</i>
12:05	LUNCH RECESS	
<i>Moderator: Dr Peters</i>		
1:20	Diagnosis and Treatment of Unusual Ectopic Pregnancies	<i>Peters</i>
1:50	Postpartum and Postmiscarriage Pelvic Ultrasound	<i>Brown</i>
2:30	First Trimester Fetal Anatomy	<i>Benson</i>
3:10	COFFEE BREAK AND VISIT EXHIBITS	
3:40	Obstetrical Ultrasound: Non-Fetal Abnormalities	<i>Brown</i>
4:20	Multiple Gestations	<i>Doubilet</i>
5:00	Questions and Answers	<i>Afternoon Speakers</i>
5:15	Adjourn	

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## SATURDAY, APRIL 14

<i>Moderator: Dr Benson</i>		
8:00	Ultrasound-Guided Interventions in Obstetrics	<i>Doubilet</i>
8:40	Subtle and Transient Fetal Anatomic Findings – What Do They Mean?	<i>Benacerraf</i>
9:20	Nuchal Translucency Screening	<i>Abuhamad</i>
10:00	COFFEE BREAK AND VISIT EXHIBITS	
10:30	Fetal Thorax	<i>Benson</i>
11:10	Fetal Echocardiography: Normal and Abnormal	<i>Abuhamad</i>
11:50	Questions and Answers	<i>Morning Speakers</i>
12:05	LUNCH RECESS	
<i>Moderator: Dr Durfee</i>		
1:20	3D Ultrasound in Obstetrics	<i>Abuhamad</i>
2:00	Fetal Skeleton, Including 3D Ultrasound	<i>Benacerraf</i>
2:40	Fetal Gastrointestinal System	<i>Frates</i>
3:15	COFFEE BREAK AND VISIT EXHIBITS	
3:45	Fetal Genitourinary System	<i>Durfee</i>
4:20	Fetal Central Nervous System	<i>Ritner</i>
5:00	Questions and Answers	<i>Afternoon Speakers</i>
5:15	Adjourn	

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Program changes/substitutions may be made without notice.



## ACCREDITATION

The Harvard Medical School is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

The Harvard Medical School designates this live activity for a maximum of 21 *AMA PRA Category 1 Credits™*. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

- Thursday - A maximum of 7 AMA PRA Category 1 Credits™
- Friday - A maximum of 7 AMA PRA Category 1 Credits™
- Saturday - A maximum of 7 AMA PRA Category 1 Credits™

## ACGME COMPETENCIES

This course is designed to meet one or more of the following Accreditation Council of Graduate Medical Education competencies:

- \* Patient care
- \* Medical knowledge
- \* Practice-based learning and improvement

## REGISTRATION INFORMATION

### Tuition Fee:

3-Day Physician Fee	\$800.00 (USD)	3-Day Residents/Fellows Fee	\$525.00 (USD)
2-Day Physician Fee	\$650.00 (USD)	2-Day Residents/Fellows Fee	\$425.00 (USD)
1-Day Physician Fee	\$450.00 (USD)	1-Day Residents/Fellows Fee	\$275.00 (USD)
3-Day Student Fee	\$250.00 (USD)		
2-Day Student Fee	\$200.00 (USD)		
1-Day Student Fee	\$150.00 (USD)		

Registration by credit card (VISA or MasterCard) can be made at: [www.cme.hms.harvard.edu/courses/ultrasound2012](http://www.cme.hms.harvard.edu/courses/ultrasound2012). To register by check (draft on a United States bank), please make payable to Harvard Medical School and mail with registration form to Harvard Medical School-Department of Continuing Education, PO Box 825, Boston, MA 02117-0825. Telephone or fax registration is not accepted. Registration with cash payment is not permitted. Upon receipt of your paid registration an email confirmation from the HMS-DCE office will be sent to you. Be sure to include an email address that you check frequently. Your email address is used for critical information including: registration confirmation, evaluation and certificate.

## INQUIRIES

By phone 617-384-8600, Monday-Friday, 10 AM to 4 PM (EST) or by email at: [hms-cme@hms.harvard.edu](mailto:hms-cme@hms.harvard.edu).

## ONLINE INFORMATION

To register or view activity information online, visit: [www.cme.hms.harvard.edu/courses/ultrasound2012](http://www.cme.hms.harvard.edu/courses/ultrasound2012).

☞ To ensure proper registration, please add the first three characters of the source code.

## DISCLOSURE POLICY

Harvard Medical School (HMS) adheres to all ACCME Essential Areas, Standards, and Policies. It is HMS's policy that those who have influenced the content of a CME activity (e.g., planners, faculty, authors, reviewers and others) disclose all relevant financial relationships with commercial entities so that HMS may identify and resolve any conflicts of interest prior to the activity. These disclosures will be provided in the activity materials along with disclosure of any commercial support received for the activity. Additionally, faculty members have been instructed to disclose any limitations of data and unlabeled or investigational uses of products during their presentations.

## REFUND POLICY

A handling fee of \$60 is deducted for cancellation. Refund requests must be received by postal mail, email or fax one week prior to this activity. No refunds will be made thereafter.

## COURSE LOCATION

All sessions for this activity will be held at The Westin Copley Place, 10 Huntington Avenue, Boston, MA 02116 (Telephone: 617-262-9600)

## ACCOMMODATIONS / TRAVEL

A limited number of rooms have been reserved at The Westin Copley Place, Boston, MA (Telephone: 888-627-7216) until March 21, 2012. Please specify that you are enrolled in this activity to receive a reduced room rate of \$269 per night Single/Double. Please do not purchase non-refundable airline ticket(s) until you have received an email from our office confirming your paid registration. For airline reservations contact 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.

## ULTRASOUND 2012 - CLASS #322520

April 12-14, 2012

### TUITION FEE:

3-Day Physician Fee	\$800.00 (USD)
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1-Day Residents/Fellows Fee	\$275.00 (USD)
3-Day Student Fee	\$250.00 (USD)
2-Day Student Fee	\$200.00 (USD)
1-Day Student Fee	\$150.00 (USD)

Please check the days you plan to attend:

Thursday  Friday  Saturday

### Print Name Clearly — All Fields Required

Full Name \_\_\_\_\_

Mailing Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

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.

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Please check if you wish to be excluded from receiving email notices of future Harvard Medical School - Department of Continuing Education programs

Profession \_\_\_\_\_ Degree \_\_\_\_\_

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

Professional School Attended (Physicians Only)

Harvard Medical School  U.S. Medical School  International

Year of Graduation \_\_\_\_\_

Online Registrants - add the first three characters of the source code found here: Source Code: X Z Z

**In an effort to "Go Green", each participant will receive an electronic syllabus only. We will no longer be providing paper versions.**