COURSE DESCRIPTION
Advances in ultrasound technology and diagnostic utility, including 3D sonography, contrast-enhanced ultrasound, elastography, and Doppler, make it difficult for those who practice ultrasound to stay current and up-to-date on new techniques and diagnostic capabilities. The recent incorporation of elastography on ultrasound systems makes it possible to assess tissue stiffness to help differentiate benign from malignant masses and to determine the degree of liver fibrosis in patients with cirrhosis. In addition, new methods of prenatal diagnosis have changed the role of ultrasound in fetal assessment. The forty-first Brigham and Women’s Hospital Ultrasound course includes one day of General and Vascular Ultrasound followed by two days devoted to Obstetrical and Gynecological Ultrasound. Our audience will consist of radiologists, obstetrician-gynecologists, sonographers and other practitioners whose scope of practice includes ultrasound. The educational format will be didactic lectures and case presentations, supplemented by question and answer periods.

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

OBJECTIVES
• Summarize how to use the full capabilities of ultrasound equipment
• Recognize individual sonographic disease patterns and how they can be used to make more accurate diagnoses in your practice
• Describe how to use ultrasound in conjunction with other imaging modalities, when appropriate, to solve clinical problems
• Incorporate new sonographic techniques, such as elastography and contrast enhanced ultrasound, for more accurate diagnoses
• Illustrate when and how to use ultrasound for guiding invasive procedures for biopsy and treatment
• Recommend sonographic techniques for prenatal diagnosis

KEY TOPICS
• Challenges in Thyroid Ultrasound
• Contrast Ultrasound of Liver and Kidneys
• Aortic Doppler
• Liver Doppler
• Carotid Ultrasound
• Scrotal Ultrasound
• The Infertile Patient
• Medicolegal Liability in OB/Gyn Ultrasound
• Fetal Brain and Spine
• Fetal GI and GU Tracts
• The Postmenopausal Patient
• 3D Ultrasound in Obstetrics and Gynecology
• Adnexal Masses
• First Trimester Pregnancy Failure and Ectopic Pregnancy

WHO SHOULD ATTEND
The course is directed to radiologists, obstetrician-gynecologists, sonographers and other practitioners whose scope of practice includes ultrasound.

GUEST FACULTY
Richard G. Barr, MD, PhD, FACR, FSRU: Professor of Radiology, Northeastern Ohio Medical University, Southwoods Imaging, Youngstown, OH
Dolores H. Pretourius, MD: Professor of Radiology, University of California, San Diego, Director of Fetal Imaging, Maternal-Fetal Care and Genetics, UC San Diego Health, San Diego, CA
Leslie M. Scoutt MD, FACR: Professor of Radiology, Vascular Surgery & Cardiology, Vice Chair for Education, Medical Director, Non-Invasive Vascular Laboratory, Yale School of Medicine, New Haven, CT
James M. Shwayder, MD, JD, FAIUM: President and CEO, Shwayder Consulting, LLC, Venice, FL

HARVARD MEDICAL SCHOOL FACULTY
Elizabeth H. Asch, MD: Instructor in Radiology; Brigham and Women’s Hospital, Boston, MA
Beryl R. Benacerraf, MD: Clinical Professor of Obstetrics and Gynecology; Clinical Professor of Radiology; Brigham and Women’s Hospital, Boston, MA
Carol B. Benson, MD: Professor of Radiology, Director, Division of Ultrasound, Co-Director, High Risk Obstetrical Ultrasound, Medical Director, Continuing Medical Education, Department of Radiology, Brigham and Women’s Hospital, Boston, MA
Peter M. Doubilet, MD, PhD: Professor of Radiology; Senior Advisor for Physician Affairs, Department of Radiology, Brigham and Women’s Hospital, Boston, MA
Mary C. Frates, MD, FACR: Professor of Radiology; Senior Advisor for Physician Affairs, Department of Radiology, Brigham and Women’s Hospital, Boston, MA
Robin Perlmutter-Goldenson, MD, MPH: Assistant Professor of Radiology; Brigham and Women’s Hospital, Boston, MA
Catherine H. Phillips, MD: Instructor in Radiology; Brigham and Women’s Hospital, Boston, MA
Danielle M. Richman, MD, MS: Instructor in Radiology; Brigham and Women’s Hospital, Boston, MA
THURSDAY, OCTOBER 24
7:00 Registration / Continental Breakfast
Moderator: Dr. Benson
7:55 Welcome and Introduction
Carol B. Benson, MD, Leslie M. Scoutt, MD
8:00 Ultrasound Evaluation of the Aorta
Richard G. Barr, MD, PhD, MD
8:40 Echocardiography
Richard G. Barr, MD, PhD, MD
9:20 Renal and Bladder Ultrasound
Richard G. Barr, MD, PhD
10:00 Coffee and Visit Exhibits
10:30 Contrast Ultrasound of the Kidneys
Richard G. Barr, MD, PhD, MD
11:10 Ultrasonic Evaluation of Portal Hypertension
Leslie M. Scoutt, MD
11:30 Contrast Ultrasound of the Liver
Richard G. Barr, MD, PhD, MD
12:00 Question and Answer Session
Morning Faculty
12:15 Lunch Recess
Moderator: Dr. Dobilet
1:30 Ultrasound Evaluation of Renal Transplants
Leslie M. Scoutt, MD
2:00 Challenges in Thyroid Ultrasound
Mary C. Frances, MD
2:40 Coffee and Visit Exhibits
3:10 Scrotal Ultrasound and Doppler
Catherine H. Phillips, MD
3:50 Ultrasonic Evaluation of Upper and Lower Extremity Veins
Leslie M. Scoutt, MD
4:30 Carotid Arteries
Danielle M. Richman, MD
5:00 Question and Answer Session
Afternoon Faculty
5:15 Adjourn
Program changes/substitutions may be made without notice.

SATURDAY, OCTOBER 26
7:00 Registration / Continental Breakfast
Moderator: Dr. Frates
7:55 Introduction and Morning Session Begins
Mary C. Frances, MD, Dolores H. Pretorius, MD
8:00 3D in Obstetrics
Dolores H. Pretorius, MD, MD
8:40 Fetal Therapeutics
Mary C. Frances, MD
9:10 Basic and High Risk Fetal Heart Screening
Dolores H. Pretorius, MD, MD
9:50 Coffee and Visit Exhibits
10:20 Fetal Spine
Elizabeth H. Asch, MD
10:50 Fetal Brain: Fetal Hemispheres and Other Organs
Dolores H. Pretorius, MD, MD
11:30 Fetal Skeletogenesis
Carol B. Benson, MD, MD
12:00 Question and Answer Session
Morning Faculty
12:15 Lunch Recess
Moderator: Dr. Benson
1:30 Placenta and Umbilical Cord
Carol B. Benson, MD, MD
2:10 Fetal Gastrointestinal Tract
Mary C. Frances, MD, MD
2:40 Fetal Genitourinary Tract
Carol B. Benson, MD, MD
3:20 Coffee and Visit Exhibits
3:50 Rule of Measurements in OB Ultrasound
Peter M. Dobilet, MD, PhD
4:30 Fetal Interventional Procedures
Carol B. Benson, MD, MD
5:00 Question and Answer Session
Afternoon Faculty
5:15 Adjourn

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• Thursday – A maximum of 7.00 AMA PRA Category 1 Credits™
• Friday – A maximum of 7.50 AMA PRA Category 1 Credits™
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Tuition Fee*:
3-Day Physician Fee $1,000.00
2-Day Physician Fee $800.00
1-Day Physician Fee $600.00
3-Day Student Fee $250.00
2-Day Student Fee $225.00
1-Day Student Fee $225.00

*Projected (non-refundable service fee): $20 All fees shown in USD.

Each Participant will receive a link for an electronic syllabus only.

Registration by credit card (VISA, MasterCard or American Express) or check can be made through Harvard Medical School’s secure online registration system at: https://cme-registraion.hms.harvard.edu/ultrasound2019

Registration by check (draft on a United States bank), please make payable to Harvard Medical School. Learners who choose to pay by check will be prompted to download an online form to send in with a payment. Telephone or fax registration is not accepted. Registration with cash payment is not permitted.

Upon receipt of your paid registration, you will receive an email confirmation. Be sure to include an email address that you check frequently. Your email address is used for critical information including registration confirmation, evaluation and certificates.

INQUIRIES
Call (617) 384-6800, Monday to Friday, 9 am to 5 pm (ET) or email cprogramp@hms.harvard.edu

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To register or view activity information online, visit: https://cme-registraion.hms.harvard.edu/ultrasound2019

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COURSE LOCATION/ACCOMMODATIONS
All sessions will be held at the Hyatt Regency Boston Hotel, One Avenue de Lafayette, Boston, MA, (Telephone: 617-912-1234). A limited number of rooms have been reserved at the Hyatt Regency Boston Hotel, One Avenue de Lafayette, Boston, MA, (Telephone: 888-401-1442) until October 2019. Please specify that you are attending this activity to receive a reduced room rate of $289 per night Double/Single. Hotel arrangements can also be made online at https://www.hyatt.com/en-US/group-booking/BOSTON/5OUV.