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 fortieth Brigham and Women’s Hospital course on Ultrasound 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 supplemented by question and answer periods.

OBJECTIVES
• Learn 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
• Incorporate sonographic techniques for prenatal diagnosis

KEY TOPICS
• Thyroid, Parathyroid and other Neck Lesions
• Contrast Ultrasound of Liver, Kidneys, and Scrotum
• Abdominal Doppler
• Carotid Waveforms
• Scrotal Ultrasound
• Fetal GI and GU Tracts
• Fetal Infection
• Fetal Echocardiography
• 3D Ultrasound in Obstetrics
• Multiple Gestations
• Ovarian Masses
• 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
Mark A. Kliewer, MD, MHSc: Professor (Tenure) of Radiology, Chief, Division of Ultrasound, University of Wisconsin School of Medicine and Public Health, Madison, WI
Professor Paul S. Sidhu, BSc, MRCP, FRCR: Professor of Imaging Sciences, King’s College London, Director of Radiology and Medical Physics, Department of Radiology, King’s College Hospital, London
Roya Sohaey MD: Professor of Diagnostic Radiology, Affiliate Professor, Obstetrics & Gynecology, Director of Fetal Imaging, Oregon Health & Science University, Portland, OR
Paula J. Woodward, MD: Professor of Radiology and Imaging Sciences, University of Utah Medical Center; David G. Bragg, MD and Marcia R. Bragg Presidential Endowed Chair in Oncologic Imaging, University of Utah Health Care, Salt Lake City, UT

HARVARD MEDICAL SCHOOL FACULTY
Elizabeth Asch, MD: Instructor in Radiology; Brigham and Women’s Hospital
Beryl R. Benacerraf, MD: Clinical Professor of Obstetrics and Gynecology, Clinical Professor of Radiology; Brigham and Women’s Hospital
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
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; Director, Harvard Medical School Radiology Clerkship, Brigham and Women’s Hospital
Mary C. Frates, MD: Associate Professor of Radiology; Assistant Director, Division of Ultrasound, Brigham and Women’s Hospital
Robin P. Goldenson, MD, MPH: Assistant Professor of Radiology; Brigham and Women’s Hospital
Howard T. Heller, MD: Instructor in Radiology; Brigham and Women’s Hospital
Mary A. Warner, MD: Instructor in Radiology; Brigham and Women’s Hospital