

***New This Year!!***

**Featured Guest Faculty on**

**Lung, Bone, and Adrenal Tumors as well as**

**Microwave Ablation**

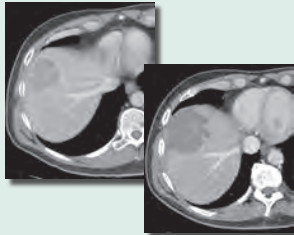
**Building a Clinic**

**High Intensity Focused Ultrasound**

# **Percutaneous Tumor Ablation:**

## ***Current Status And Future Directions***

**Friday, April 21 and  
Saturday, April 22, 2006**

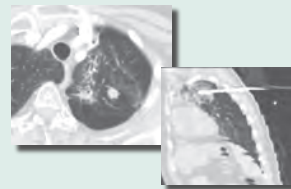


CO-DIRECTORS

Debra A. Gervais, M.D.

Stuart G. Silverman, M.D.

The Colonnade Hotel Boston  
120 Huntington Avenue  
Boston, MA



**MASSACHUSETTS GENERAL HOSPITAL**  
DEPARTMENT OF RADIOLOGY



**BRIGHAM AND WOMEN'S HOSPITAL**  
DEPARTMENT OF RADIOLOGY



**HARVARD MEDICAL SCHOOL**  
DEPARTMENT OF CONTINUING EDUCATION

## Harvard Medical School Faculty

**Ronald S. Arellano, M.D.**, Instructor in Radiology, Harvard Medical School; Division of Abdominal Imaging and Intervention, Massachusetts General Hospital

**Lawrence S. Blaszkowsky, M.D.**, Instructor in Medicine, Harvard Medical School; Director of the Infusion Center, Massachusetts General Hospital

**Yolonda Colson, M.D., Ph.D.**, Assistant Professor of Surgery, Harvard Medical School; Thoracic Surgery Division, Brigham and Women's Hospital

**Cassandra Earley**, Practice Manager, Division of Angiography and Interventional Radiology, Brigham and Women's Hospital

**Fiona Fennessy, M.D.**, Instructor in Radiology, Harvard Medical School; Staff Radiologist, Brigham and Women's Hospital, Dana Farber Cancer Institute

**Debra A. Gervais, M.D.**, Assistant Professor of Radiology, Harvard Medical School; Director, Abdominal Intervention, Massachusetts General Hospital

**S. Nahum Goldberg, M.D.**, Associate Professor of Radiology, Harvard Medical School; Department of Radiology, Beth Israel Deaconess Medical Center

**Ferenc A. Jolesz, M.D.**, B. Leonard Holman Professor of Radiology, Harvard Medical School; Vice Chairman for Research; Director, Division of MRI and Image-Guided Therapy Program, Department of Radiology, Brigham and Women's Hospital

**Francis J. McGovern, M.D.**, Assistant Clinical Professor of Surgery, Harvard Medical School; Urology Department, Massachusetts General Hospital

**Paul R. Morrison, M.Sc.**, Medical Physicist, Department of Radiology, Brigham and Women's Hospital

**Peter R. Mueller, M.D.**, Professor of Radiology, Harvard Medical School; Division Head, Abdominal Imaging and Interventional Radiology, Massachusetts General Hospital

**Amita Sharma, M.D.**, Instructor in Radiology, Harvard Medical School; Division of Thoracic Radiology, Massachusetts General Hospital

**Jo-Anne O. Shepard, M.D.**, Associate Professor of Radiology, Harvard Medical School; Director of Thoracic Radiology, Massachusetts General Hospital

**Stuart G. Silverman, M.D.**, Professor of Radiology, Harvard Medical School; Director, Division of Abdominal Imaging and Intervention; Director of CT Scan, Brigham and Women's Hospital

**Kenneth K. Tanabe, M.D.**, Associate Professor of Surgery, Harvard Medical School; Chief, Department of Surgical Oncology; Deputy Clinical Director, MGH Cancer Center, Massachusetts General Hospital

**Servet Tatli, M.D.**, Instructor in Radiology, Harvard Medical School; Division of Abdominal Imaging and Intervention, Brigham and Women's Hospital

**Kemal Tuncali, M.D.**, Instructor in Radiology, Harvard Medical School; Director, Genitourinary Radiology Service, Division of Abdominal Imaging and Intervention; Assistant Director, Cross-sectional Interventional Service, Brigham and Women's Hospital

## Guest Faculty

**Matthew Callstrom, M.D.**, Consultant, Mayo Clinic College of Medicine; Assistant Professor of Radiology, Mayo Clinic, College of Medicine, Rochester, MN

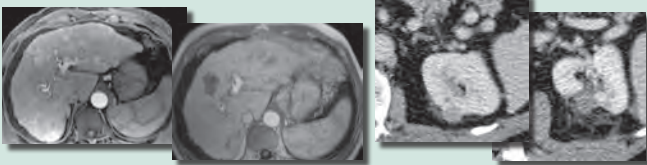
**Warren Krackov, M.D.**, Attending Radiologist, Boston Medical Center, Assistant Professor of Radiology, Division of Interventional Radiology, Boston University School of Medicine, Boston, MA

**Fred T. Lee, Jr., M.D.**, Professor of Radiology, The Robert A. Turrel Professor of Medical Imaging; Chief, Abdominal Radiology; Chief, Oncologic Imaging, University of Wisconsin, Madison, WI

**Riccardo Lencioni, M.D.**, Department of Oncology, Transplants and Advanced Technologies in Medicine; Associate Professor of Radiology, University of Pisa, Pisa, Italy

**William W. Mayo-Smith, M.D.**, Professor of Radiology, Brown Medical School; Director of Computed Tomography, Rhode Island Hospital, Providence, RI

**Eric vanSonnenberg, M.D.**, Chairman and Professor of Radiology, St. Joseph's Hospital and Medical Center, Phoenix, AZ



## OBJECTIVES

1. Review the basic science behind the most common thermal ablation therapies.
2. Review the clinical status of percutaneous ablation of lung, liver, bone, kidney and adrenal tumors.
3. Demonstrate pitfalls and potential solutions in performing and monitoring percutaneous tumor ablation as well as managing complications and routine follow-up.
4. Provide hands-on experience with a variety of existing percutaneous ablation technologies.
5. Provide a multidisciplinary overview of the role of percutaneous ablation in current practice.

## COURSE DESCRIPTION

This course will highlight diagnostic and interventional radiology techniques used in percutaneous ablation of a variety of liver, kidney, bone, thoracic, and soft tissue tumors. The main objectives are to present innovative techniques, provide opportunity for discussion of technical pitfalls and solutions, and to review previously described methods to treat various tumors. For example, the use of radiofrequency ablation, cryotherapy, microwave, chemoembolization, alcohol, either alone, or combined in the treatment of liver, kidney, and other tumors will be discussed. The course is designed as a thorough two-day presentation, to include didactic lectures, workshops, and hands-on experience. Many types of equipment for ablation will be shown and discussed. The course will provide a framework that will place many of the newly emerging image-guided oncologic interventions into their proper clinical perspective. This will include a discussion of the potential merits of each type of therapy (percutaneous versus transcatheter) as they apply to specific organ sites (liver, kidney, bone, lung), and the rationale and indications for treatment. The course will feature a large exhibit space with numerous vendors and time for attending physicians to use different ablation equipment. On the second day there will be a "working lunch" with faculty, which will include discussions of focused ultrasound, microwave, the role of PET-CT, and practical issues with current ablation techniques.

## ACCREDITATION

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

Harvard Medical School designates this educational activity for a maximum of 12 category 1 credits towards the AMA Physician's Recognition Award. Each physician should claim only those credits that he/she actually spent in the educational activity.


The American Medical Association has determined that physicians not licensed in the US who participate in this CME course are eligible for AMA PRA category 1 credit.

## REGISTRATION INFORMATION

For specific tuition fees, see the registration form. All foreign payments must be made by a draft from a United States bank or by Visa or MasterCard. If paying by check, make it payable to Harvard Medical School and mail with the completed registration form to: Harvard Medical School, Department of Continuing Education, P.O. Box 825, Boston, MA 02117-0825. If paying by credit card, fax the completed registration form to (617) 384-8686, mail it to the above address, or register online at [www.cme.hms.harvard.edu](http://www.cme.hms.harvard.edu). Telephone registrations are not accepted. Inquiries should be directed to the Harvard Medical School, Department of Continuing Education address; made by phone to 617-384-8600, Monday-Friday, 10 a.m. to 4 p.m. EST; or by email to: [hms-cme@hms.harvard.edu](mailto:hms-cme@hms.harvard.edu). Upon receipt of registration a confirmation letter will be mailed to the address listed on the form.

## ONLINE INFORMATION

To register or view this course information online, visit our home page: [www.cme.hms.harvard.edu](http://www.cme.hms.harvard.edu).

 To ensure proper registration, please add the first three letters 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.

## HOTEL ACCOMMODATIONS

Hotel rooms in Boston and Cambridge are limited. You are urged to make reservations early. A limited number of rooms have been reserved at The Colonnade Hotel Boston until Tuesday, March 30, 2006. Please specify that you are enrolled in the course to receive a reduced room rate (\$219). The Colonnade Hotel Boston is located at 120 Huntington Avenue, Boston, MA 02142. Telephone is 617-424-7000.

## TRAVEL

For information on reduced airfare, call Harvard Medical School, Department of Continuing Education at 617-384-8600, Monday-Friday, 10am to 4pm EST.

## CONTACT INFORMATION

For more information contact [CMERadiology@partners.org](mailto:CMERadiology@partners.org)

Program changes/substitutions may be made without notice

Friday, April 21, 2006

Speakers

|             |  |                                  |
|-------------|--|----------------------------------|
| 8:00-8:05   | WELCOME  | Gervais/Silverman                |
| 8:05-8:25   | RF and The Science of Heat Ablation  | Goldberg                         |
| 8:25-8:45   | Cryotherapy  | Silverman                        |
| 8:45-9:05   | Microwave  | Lee                              |
| 9:05-9:35   | COFFEE BREAK   |                                  |
| 9:35-9:55   | Focused Ultrasound:  | Fennessy                         |
| 9:55-10:15  | Ablation Devices   | Morrison                         |
| 10:15-10:45 | Ablation of Liver Metastases   | Goldberg                         |
| 10:45-11:15 | Ablation of Hepatocellular Carcinoma   | Arellano                         |
| 11:15-11:30 | QUESTIONS AND ANSWERS  |                                  |
| 11:30-1:00  | LUNCH  |                                  |
| 1:00-1:30   | Ablation of Kidney Tumors  | Gervais                          |
| 1:30-2:00   | Ablation of Bone Tumors  | Callstrom                        |
| 2:00-2:30   | Ablation of Lung Tumors  | Lencioni                         |
| 2:30-2:50   | Ablation of Adrenal Tumors   | Mayo-Smith                       |
| 2:50-3:00   | QUESTIONS AND ANSWERS  |                                  |
| 3:00-3:30   | COFFEE BREAK   |                                  |
| 3:30-5:30   | WORKSHOPS<br>(repeating session from 3:30-4:30 and 4:30-5:30, participants choose 2) |                                  |
|             | Liver Ablation   | Tuncali/Arellano                 |
|             | Kidney Ablation  | Gervais/Mueller                  |
|             | Lung Ablation  | Lencioni/ Tatli/ Shepard/ Sharma |
|             | Bone Ablation  | Callstrom/Mayo-Smith             |
| 5:30-6:00   | RECEPTION  |                                  |

## Saturday, April 22, 2006

|             |   | Speaker       |
|-------------|---|---------------|
| 8:00-8:20   | Setting up an Ablation Clinic   | Earley        |
| 8:20-8:40   | Complications of Ablation   | Mueller       |
| 8:40-9:00   | Imaging Issues: Post Ablation   | Gervais       |
| 9:00-9:20   | "Tricks of the Trade –<br>Technical Adjuncts to a Successful Ablation"  | vanSonnenberg |
| 9:20-9:40   | The Role of Chemoembolization   | Krackov       |
| 9:40-10:15  | COFFEE BREAK  |               |
| 10:15-10:35 | The GI Oncologist's View  | Blaszukowsky  |
| 10:35-10:55 | The Hepatic Surgeon's View  | Tanabe        |
| 10:55-11:15 | The Urologist's View  | McGovern      |
| 11:15-11:35 | Radiofrequency Ablation and the Thoracic Surgeon                        | Colson        |
| 11:45-1:30  | LUNCHEON PANEL DISCUSSION   |               |
| 1:30-2:00   | From Interventional Suite<br>To Advanced Multi-modality Image-Guided OR | Jolesz        |

PERCUTANEOUS TUMOR ABLATION: CURRENT STATUS AND FUTURE DIRECTIONS FRIDAY, April 21 to SATURDAY, April 22, 2006

TUITION FEES: (check one below)  \$500 (USD) Full Course  \$400 (USD) Residents\* Fellows in Training\* and Allied Health Professionals Course Number #262351

\* A letter of verification from Department Chair must accompany registration form for a reduced fee

Please Print Clearly  
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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.

Professional School Attended \_\_\_\_\_ Yr. of Grad. \_\_\_\_\_

Profession \_\_\_\_\_ Specialty \_\_\_\_\_ Board Certified: Yes No

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

Form of Payment (Please check one):

Check is enclosed: Please make your check payable to Harvard Medical School and mail it with this registration form to:

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Name as it appears on Credit Card \_\_\_\_\_

Tuition Fee \$ \_\_\_\_\_ Registrations paid by credit card may be faxed to 617-384-8686, registered online at [www.cme.hms.harvard.edu](http://www.cme.hms.harvard.edu) or mailed to the above address

Online registrants — add the first three letters of the source code found here. Source Code: ABCDEFGXZ



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**Percutaneous Tumor Ablation:  
*Current Status And Future Directions***

**Friday, April 21 and Saturday, April 22, 2006  
At The Colonnade Hotel Boston**