November 3 - 5, 2014
Marriott Boston Long Wharf
Boston, MA

Chest Imaging

Program Directors
Jo-Anne O. Shepard, MD • Andetta R. Hunsaker, MD • Amita Sharma, MD

Massachusetts General Hospital
Brigham and Women’s Hospital
Departments of Radiology
Harvard Medical School
Chest Imaging

KEY TOPICS

- Lung Cancer Screening, Staging, and Management
- Pulmonary Nodule Evaluation
- Diffuse Lung Disease: A Multidisciplinary Approach
- HRCT
- Airways Disease
- Coronary and Aortic Imaging
- Pulmonary Embolism
- ICU Radiology
- Vascular and Non-vascular Trauma
- FDG-PET Imaging
- Thoracic MRI
- Dual Energy CT
- Radiation Dose Reduction

Visit [www.cme.hms.harvard.edu/courses/chestimaging](http://www.cme.hms.harvard.edu/courses/chestimaging) to register

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FACULTY

COURSE DIRECTORS

Jo-Anne O. Shepard, MD  
Professor of Radiology, Harvard Medical School  
Director of Thoracic Imaging and Intervention, Massachusetts General Hospital

Andetta R. Hunsaker, MD  
Associate Professor of Radiology, Harvard Medical School  
Director, Division of Thoracic Imaging and Intervention, Brigham and Women's Hospital

Amita Sharma, MD  
Assistant Professor of Radiology, Harvard Medical School  
Associate Radiologist, Division of Thoracic Imaging and Intervention, Massachusetts General Hospital

INVITED SPEAKERS

David Lynch, MD  
Professor of Radiology, Co-Director, Division of Radiology, National Jewish Health, Denver, Colorado

Smita Patel, MD  
Associate Professor of Radiology, Division of Cardiothoracic Radiology, University of Michigan Health System, Ann Arbor, Michigan

William D. Travis, MD  
Attending Thoracic Pathologist, Department of Pathology, Memorial Sloan Kettering Cancer Center, New York, New York

Mylene T. Truong, MD  
Professor, Department of Diagnostic Radiology, The University of Texas M. D. Anderson Cancer Center, Houston, Texas

HARVARD MEDICAL SCHOOL

Gerald F. Abbott, MD  
Associate Professor of Radiology, Harvard Medical School  
Attending Radiologist, Division of Thoracic Imaging and Intervention, Massachusetts General Hospital

Jeanne B. Ackman, MD  
Instructor in Radiology, Harvard Medical School  
Associate Radiologist, Director of Thoracic MRI, Division of Thoracic Imaging and Intervention, Massachusetts General Hospital

Garry Choy, MD, MBA  
Instructor in Radiology, Harvard Medical School  
Staff Radiologist, Division of Cardiovascular and Thoracic Imaging and Intervention, Massachusetts General Hospital

Subba R. Digumarthy, MD  
Assistant Professor of Radiology, Harvard Medical School  
Assistant Radiologist, Division of Thoracic Imaging and Intervention, Massachusetts General Hospital

Florian J. Fintelmann, MD  
Instructor in Radiology, Harvard Medical School  
Assistant Radiologist, Division of Interventional Radiology, Massachusetts General Hospital

Efren J. Flores, MD  
Instructor in Radiology, Harvard Medical School  
Assistant Radiologist, Division of Thoracic Imaging and Intervention, Massachusetts General Hospital

Ritu R. Gill, MD  
Assistant Professor of Radiology, Harvard Medical School  
Department of Radiology, Brigham and Women's Hospital

Matthew D. Gilman, MD  
Assistant Professor of Radiology, Harvard Medical School  
Associate Director, Division of Thoracic Imaging and Intervention, Associate Director, Cardiothoracic Imaging

Hiroto Hatabu, MD, PhD  
Professor of Radiology, Harvard Medical School  
Clinical Director MRI Program, Medical Director, Center for Pulmonary Functional Imaging, Department of Radiology, Brigham and Women's Hospital

Francine L. Jacobson, MD, MPH  
Assistant Professor of Radiology, Harvard Medical School  
Division of Thoracic Imaging and Intervention, Brigham and Women's Hospital

Manudeep K. Kalra, MD  
Associate Professor of Radiology, Harvard Medical School  
Radiologist, Division of Thoracic Imaging and Intervention, Massachusetts General Hospital

Michael Lanuti, MD  
Assistant Professor of Surgery, Harvard Medical School  
Director, Thoracic Oncology, Division of Thoracic Surgery, Massachusetts General Hospital

Inga T. Lennes, MD  
Instructor in Medicine, Harvard Medical School  
Director of Clinical Quality, MGH Cancer Center, Director, Survivorship Program, Massachusetts General Hospital

Rachna Madan, MD  
Instructor in Radiology, Harvard Medical School  
Division of Thoracic Imaging and Intervention, Brigham and Women's Hospital

Theresa C. McLeod, MD  
Professor of Radiology, Harvard Medical School  
Vice-Chair for Education, Thoracic Radiologist, Division of Thoracic Imaging and Intervention, Massachusetts General Hospital

Victorine V. Muse, MD  
Assistant Professor of Radiology, Harvard Medical School  
Associate Radiologist, Division of Thoracic Imaging and Intervention, Massachusetts General Hospital

Milena Petranovic, MD  
Associate Professor of Medicine, Harvard Medical School  
Assistant Radiologist, Massachusetts General Hospital

Lecia V. Sequist, MD, MPH  
Lecturer of Radiology, Harvard Medical School  
Assistant in Research, Massachusetts General Hospital

Andrew M. Tager, MD  
Associate Professor of Medicine, Harvard Medical School  
Associate Physician, Massachusetts General Hospital

Beatrice Trotman-Dickenson, MD  
Assistant Professor of Radiology, Harvard Medical School  
Division of Thoracic Imaging and Intervention, Brigham and Women's Hospital

Henning Willers, MD  
Associate Professor of Radiation Oncology, Harvard Medical School  
Associate Radiation Oncologist, Massachusetts General Hospital

Sarabjeet Singh, MD, MMST  
Instructor in Radiology, Harvard Medical School  
Assistant Radiologist, Massachusetts General Hospital

Carol C. Wu, MD  
Assistant Professor of Radiology, Harvard Medical School  
Assistant Radiologist, Division of Thoracic Imaging and Intervention, Massachusetts General Hospital
COURSE DESCRIPTION

The rapidly expanding subspecialty of Thoracic Radiology creates a challenge for physicians to stay current. The three-day chest course will include symposia dedicated to the multi-disciplinary assessment and management of lung cancer, lung cancer screening, the approach to HRCT and interstitial lung diseases and acute cardiothoracic imaging. New modalities including PET-CT, MRI, Dual energy CT and dose reduction strategies will be presented.

Chest Radiology is no longer a field where a chest x-ray is the sole modality of imaging. The specialty is now much more comprehensive and includes Computed Tomography, PET-CT Magnetic Resonance Imaging and Interventional procedures. Interventional work includes obtaining adequate tissue for molecular analysis in the growing field of personalized medicine for lung cancer. The Radiologist’s role is expanding significantly in these areas and there is increasing need to work effectively in a multi-disciplinary team to optimize patient management and outcome. The recent guidelines on Lung cancer screening will increase demand and utilization of thoracic CT.

LEARNING OBJECTIVES

Upon completion of this activity, participants will be able to:

- Describe the updated classification and staging algorithm of lung cancer
- Interact more effectively with other physicians involved in lung cancer management
- Evaluate HRCT examinations using a structured anatomical approach
- Use CT appropriately in the evaluation of acute chest pain
- Avoid pitfalls in the interpretation of PET-CT in the thorax
- Apply new imaging parameters on scanners in order to dramatically reduce radiation dose in all patients

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 22.5 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

The Royal College of Physicians and Surgeons of Canada recognizes conferences and workshops held outside of Canada that are developed by a university, academy, hospital, specialty society or college as accredited group learning activities.

AMA PRA Category 1 Credits™ claimed by physicians attending live events certified and organized in the United States for AMA PRA Category 1 Credits™ can be claimed through the agreement on mutual recognition of credits between UEMS and AMA, considered as being equal to the European Continuous Medical Education Credits (ECMEC®) granted by the UEMS.

One AMA PRA Category 1 Credits™ is equivalent to one (1) hour of European EACCME Credit (ECMEC®), therefore up to 22.5 ECMEC® Credits are available. Each medical specialist should claim only those hours of credit that he/she actually spent in the educational activity.

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: $800.00 (USD)
Reduced Fee for Residents, Fellows in Training, and Allied Health Professionals: $454.00 (USD)

Registration by credit card (VISA, American Express or MasterCard) can be made at:
www.cme.hms.harvard.edu/courses/chestimaging

Registration 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 41747625, Boston, MA 02241-7476. 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, 9 AM to 5 PM (EST) or by email at: hms-cme@hms.harvard.edu

ONLINE INFORMATION

To register or view activity information online, visit:
www.cme.hms.harvard.edu/courses/chestimaging

To ensure proper registration, please add the source code found at the bottom of this registration form.

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 will be held at the Marriott Boston Long Wharf, 296 State Street, Boston, MA 02109.

ACCOMMODATIONS

Hotel rooms in Boston are limited. You are urged to make your reservations early. A limited number of rooms have been reserved at the Marriott Boston Long Wharf, (800) 228-9290 or (617) 227-0800 until Friday, October 10, 2014. Please specify that you are enrolled in the Chest Imaging course to receive a reduced room rate. For reservations go to: www.marriott.com/boslw. Please enter code: chicha in Special Rates and Awards.

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.
Chest Imaging Course
November 3 - 5, 2014
Registration Form
Course # 341130

TUITION FEES

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<tr>
<th>Physician</th>
<th>$800.00 (USD)</th>
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<td>Residents*/Fellows in</td>
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<tr>
<td>Training*/Technologists</td>
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<tr>
<td>Allied Health Professionals</td>
<td>$545.00 (USD)</td>
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* A letter of verification from the Department Chair must accompany the registration form for a reduced trainee fee.

PLEASE PRINT CLEARLY - All fields are required.

Full Name
First Middle Initial Last
Address
Street City State Zip Code

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.

Daytime Phone Fax # E-Mail

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

Profession
Primary Specialty (Physicians Only)

Degree
Board Certified: ☐ Yes ☐ No

Professional School Attended
(Physicians Only)
☐ Harvard Medical School ☐ U.S. Medical School ☐ International Medical School Yr of Grad

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

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<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>7:00 - 7:45</td>
<td>Registration/Continental Breakfast</td>
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<tr>
<td>7:45 - 8:15</td>
<td>The New Classification of Adenocarcinoma</td>
<td>William Travis, MD</td>
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<tr>
<td>8:15 - 8:45</td>
<td>Difficult Lung Cancers</td>
<td>William Travis, MD</td>
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<td>8:45 - 9:15</td>
<td>Risk Stratification of Lung Nodules</td>
<td>Theresa McLoud, MD</td>
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<td>9:15 - 9:45</td>
<td>Radiologic Staging of Lung Cancer</td>
<td>Subba Digumarthy, MD</td>
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<td>9:45 - 10:00</td>
<td>BREAK</td>
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<tr>
<td>10:00 - 10:30</td>
<td>Surgical Staging of Lung Cancer</td>
<td>Michael Lanuti, MD</td>
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<td>10:30 - 11:00</td>
<td>Advances in Lung Cancer Management: Oncology</td>
<td>Lecia Sequist, MD</td>
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<tr>
<td>11:00 - 11:30</td>
<td>The Evolving Role of Stereotactic Body Radiation Therapy in NSCLC</td>
<td>Henning Willers, MD</td>
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<td>11:30 - 12:00</td>
<td>Multi-disciplinary Panel</td>
<td>Digumarthy, Lanuti, Sequist, Willers</td>
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<tr>
<td>12:00 - 12:30</td>
<td>Unknown Cases</td>
<td>Florian Fintelmann, MD</td>
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<td>12:30 - 1:30</td>
<td>Lunch Recess <em>(on your own)</em></td>
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<tr>
<td>1:30 - 1:50</td>
<td>Lung Cancer Screening - The Facts</td>
<td>Theresa McLoud, MD</td>
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<td>1:50 - 2:10</td>
<td>Lung Cancer Screening - Creating a Screening Program</td>
<td>Francine Jacobson, MD, MPH</td>
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<td>2:10 - 2:30</td>
<td>Lung Cancer Screening - Standardized Reporting</td>
<td>Jo-Anne Shepard, MD</td>
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<td>2:30 - 2:50</td>
<td>Lung Cancer Screening - A Clinician's Approach</td>
<td>Inga Lennes, MD</td>
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<td>2:50 - 3:30</td>
<td>Lung Cancer Screening: Panel Questions and Answers</td>
<td>McLoud, Jacobson, Shepard, Lennes</td>
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<td>3:30 - 3:45</td>
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<tr>
<td>3:45 - 4:15</td>
<td>Lung Nodule Biopsy</td>
<td>Jo-Anne Shepard, MD</td>
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<td>4:15 - 4:45</td>
<td>Lymphoma</td>
<td>Victorine Muse, MD</td>
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<td>4:45 - 5:15</td>
<td>Mediastinal Tumors</td>
<td>Andetta Hunsaker, MD</td>
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<td>5:15 - 5:30</td>
<td>Questions and Answers</td>
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<td>5:30</td>
<td>ADJOURN</td>
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# INTERSTITIAL LUNG DISEASE SYMPOSIUM

## Moderator: Amita Sharma, MD

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Presenter</th>
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<tbody>
<tr>
<td>7:15 - 8:00</td>
<td>Continental Breakfast</td>
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<tr>
<td>8:00 - 8:30</td>
<td>HRCT Anatomy</td>
<td>Gerald Abbott, MD</td>
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<td>8:30 - 9:00</td>
<td>The Reticular Pattern on HRCT</td>
<td>David Lynch, MD</td>
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<td>9:00 - 9:30</td>
<td>The Nodular Pattern on HRCT</td>
<td>David Lynch, MD</td>
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<tr>
<td>9:30 - 10:00</td>
<td>The Cystic Pattern on HRCT</td>
<td>Beatrice Trotman-Dickinson, MD</td>
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<tr>
<td>10:15 - 10:45</td>
<td>The Increased Attenuation Pattern on HRCT</td>
<td>Carol Wu, MD</td>
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<td>10:45 - 11:15</td>
<td>The Pulmonologists approach to ILD</td>
<td>Andrew Tager, MD</td>
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<td>11:15 - 12:00</td>
<td>ILD Quiz/Multi-disciplinary Approach</td>
<td>Lynch, Tager, Abbott</td>
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<td>12:00 - 12:30</td>
<td>Unknown Cases</td>
<td>Milena Petranovic, MD</td>
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<td>12:30 - 1:30</td>
<td>Lunch Recess <em>(on your own)</em></td>
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<td>1:30 - 2:00</td>
<td>Collagen Vascular Diseases And Vasculitis</td>
<td>David Lynch, MD</td>
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<td>2:00 - 2:30</td>
<td>Smoking Related Interstitial Lung Disease</td>
<td>Amita Sharma, MD</td>
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<td>2:30 - 3:00</td>
<td>Occupational and Environmental Lung Diseases</td>
<td>David Lynch, MD</td>
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<td>Drug related Interstitial Lung Disease</td>
<td>Ritu Gill, MD</td>
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<td>3:45 - 4:15</td>
<td>Large Airways Disease</td>
<td>Efren Flores, MD</td>
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<td>4:15 - 4:45</td>
<td>Small Airways Disease</td>
<td>Gerald Abbott, MD</td>
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<td>4:45 - 5:00</td>
<td>Questions and Answers</td>
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<td>5:00</td>
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<tr>
<td>7:15</td>
<td>Continental Breakfast</td>
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<tr>
<td>8:00</td>
<td>Acute Pulmonary Embolus Imaging</td>
<td>Smita Patel, MD</td>
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<td>8:30</td>
<td>Evaluation of the Coronary Arteries In the</td>
<td>Smita Patel, MD</td>
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<td>Emergency Room</td>
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<td>9:00</td>
<td>Non-Vascular Chest Trauma</td>
<td>Garry Choy, MD</td>
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<td>9:30</td>
<td>Vascular Chest Trauma</td>
<td>Smita Patel, MD</td>
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<td>10:15</td>
<td>ICU Radiology</td>
<td>Matthew Gilman, MD</td>
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<td>10:45</td>
<td>The Post-operative Chest</td>
<td>Rachna Madan, MD</td>
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<tr>
<td>11:15</td>
<td>Acute Aortic Syndromes</td>
<td>Smita Patel, MD</td>
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<td>Unknown Cases Panel</td>
<td>Patel, Gilman, Truong, Madan</td>
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<td>12:30</td>
<td>Lunch Recess <em>(on your own)</em></td>
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<td>1:30</td>
<td>MRI of the Thymus - Value Added</td>
<td>Jeanne Ackman, MD</td>
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<td>2:00</td>
<td>Pitfalls in FDG-PET Imaging</td>
<td>Mylene Truong, MD</td>
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<td>2:30</td>
<td>Dual Energy CT</td>
<td>Manudeep Kalra, MD</td>
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<td>3:00</td>
<td>Advanced Strategies for Dose Reduction in CT</td>
<td>Sarabjeet Singh, MD</td>
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<td>3:30</td>
<td>Functional COPD Imaging</td>
<td>Hiroto Hatabu, MD, PhD</td>
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<td>4:00</td>
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