Lung Cancer Screening: Requisites for a High-Quality Program

MARCH 12, 2016

HIGHLIGHTS AND OBJECTIVES:
- Learn how to set up and run a successful low-dose CT lung cancer screening program
- Understand the requirements for private payer and Medicare reimbursement
- Learn how to optimize low-dose CT protocols and report and manage CT findings using Lung-RADS™ system
- Learn how to avoid pitfalls in identification of lung cancers
- Hear from experts the opportunities, challenges, and future direction of population-based screening

COURSE INFORMATION/TARGET AUDIENCE:
- Full-day and half-day tracks for thoracic and general radiologists with an interest in performing lung cancer screening
- Virtual symposium with live-streaming of content will be available

COURSE CO-DIRECTORS:
Denise Aberle, MD, Caroline Chiles, MD, Ann Leung, MD, David Lynch, MB

CME CREDIT AVAILABLE:
The Society of Thoracic Radiology is accredited by the Accreditation Council for Continuing Medical Education to sponsor continuing medical education for physicians.

The Society of Thoracic Radiology (STR) designates this live activity for a maximum of 7.75 AMA PRA Category 1 Credits™. Physicians should only claim credit commensurate with the extent of their participation.

“Can’t Come to Scottsdale? Register for the Virtual Symposium!”
Participate in the 1-day Lung Cancer Screening: Requisites for a High Quality Program, March 12, 2016, to receive the same excellent education that the STR is known for and earn 7.75 CME credits. With the Virtual Symposium, participants can view the live streaming of lectures and access free recordings.
Program Faculty

Denise R. Aberle, MD
David Geffen School of Medicine UCLA

Kathleen Brown, MD, FACP
David Geffen School of Medicine UCLA

Caroline Chiles, MD
Wake Forest University Health Sciences

Thomas V. Colby, MD
Mayo Clinic Arizona

John E. Connolly, MD
Presence Health

Myrna C.B. Godoy, MD
Texas MD Anderson Cancer Center

Michael K. Gould, MD, MS
Kaiser Permanente Southern California

Thomas E. Hartman, MD
Mayo Clinic Rochester

Claudia I. Henschke, MD, PhD
Mount Sinai School of Medicine

Mannudeep K. Kalra, MD
Massachusetts General Hospital

Jeffrey P. Kanne, MD
University of Wisconsin Madison

Ella A. Kazerooni, MD, FACP
University of Michigan Health System

Jane P. Ko, MD
New York University Langone Medical Center

Stephen Lam, MD, FRCPC
The University of British Columbia

Ann N. Leung, MD
Stanford University Medical Center

David A. Lynch, MB
National Jewish Health

John R. Mayo, MD
Vancouver Hospital & Health Science Center

Theresa C. McLeod, MD, FACP
Massachusetts General Hospital

Reginald F. Munden, MD, FACP
Houston Methodist Hospital

Mathias Prokop, MD
Radboud University Medical Center

James G. Ravenel, MD
Medical University of South Carolina

Anna Shmukler, MD
Albert Einstein College of Medicine, Montefiore Medical Center

Karen L. Swanson, DO
Mayo Clinic Arizona

Charles S. White, MD, FACP
University of Maryland Medical System

David F. Yankelevitz, MD
Mount Sinai School of Medicine

Steven E. Zinck, MD
Providence St. Vincent Medical Center
Lung Cancer Screening: Requisites for a High-Quality Program
Saturday, March 12, 2016

**Session I: Screening Concepts**

8:00 a.m. Welcome and Introduction to Session  
**Caroline Chiles, MD & David A. Lynch, MB**

8:05 a.m. Opportunities and Challenges in National Implementation  
**Denise R. Aberle, MD**

8:25 a.m. Lessons from I-ELCAP  
**Claudia I. Henschke, MD, PhD**

8:45 a.m. Update: Results from the European Trials  
**Mathias Prokop, MD**

9:05 a.m. Overdiagnosis and the Histologic Spectrum of Adenocarcinoma  
**Thomas V. Colby, MD**

9:25 a.m. Essential Components of a High-Quality Screening Program  
**Michael K. Gould, MD, MS**

9:45 a.m. Role of Biomarkers  
**Stephen Lam, MD, FRCPC**

10:05 a.m. Q & A Panel Discussion

10:15 a.m. Break

**Session II: Development of a Screening Program**

Ann N. Leung, MD & Jeffrey P. Kanne, MD

10:30 a.m. Requirements and Eligibility for Private Payer and Medicare Coverage  
**Ella A. Kazerooni, MD**

11:00 a.m. How We Do It: Build and Run a Successful Program  
**Steven E. Zinck, MD**

11:30 a.m. Important Conversations: Shared Decision Making and Smoking Cessation  
**Karen L. Swanson, DO**

11:50 a.m. Q & A

12:05 a.m. Lunch

**Session III: Performance and Interpretation of Screening Studies**

Thomas E. Hartman, MD & Jane P. Ko, MD

1:05 p.m. CT Protocols and Low-Dose Technique  
**Mannudeep K. Kalra, MD**

1:25 p.m. Nodule Detection, Measurement and Tracking  
**James G. Ravenel, MD**
<table>
<thead>
<tr>
<th>Time</th>
<th>Session IV: Reporting and Management of Screening Results</th>
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| 3:15 p.m. | Structured Reporting  
Kathleen Brown, MD                                              |
| 3:35 p.m. | Nodule Management: Diagnostic Options  
Myrna C.B. Godoy, MD                                                  |
| 3:55 p.m. | Database Management and Quality Metrics  
Anna Shmukler, MD                                                      |
| 4:15 p.m. | False Negative Exams: Steps to Minimize Reader Error  
Charles S. White, MD                                                  |
| 4:35 p.m. | Case-based Interpretation: Screening Pearls from an Expert  
Reginald F. Munden, MD                                               |
| 4:55 p.m. | Q & A                                                               |
From the President

The Society of Thoracic Radiology hosts its 34th annual meeting March 13-16, 2016 at the Hyatt Regency Scottsdale Resort and Spa at Gainey Ranch in Scottsdale, Arizona. The program committee, headed by President-Elect Ann Leung, MD in collaboration with Educational Committee Chair Jeff Kanne, MD, has designed an outstanding, comprehensive postgraduate radiology course in cardiovascular imaging. The course will be preceded on Saturday, March 12, 2016 by a day-long multidisciplinary symposium, “Lung Cancer Screening: Requisites for a High-Quality Program.” Developed by co-directors Derri Aberle, MD, Caroline Chiles, MD, and David Lynch, MB, the symposium is designed to facilitate the ability of attendees to successfully set up and implement a multidisciplinary screening program using a standardized, evidence-based approach.

The annual meeting course curriculum covers a broad spectrum of cardiovascular imaging topics, including diffuse lung diseases, pulmonary infections, lung cancer screening, oncologic imaging, interventional techniques, and cardiovascular imaging, among others. Self-assessment modules (SAMs) will provide important opportunities for maintenance of certification and lifelong learning needs.

Highlights of the 2016 course include:

- An integrated educational and scientific session devoted to advances in cardiac imaging and co-sponsored by NASCI.
- The Gordon Gamsu Memorial lecture, “Radiogenomics: Next Generation Rad-Path Correlation – Principles and Applications” by Michael Kuo, MD, Associate Professor of Radiology at the University of California Los Angeles.
- The Scanlon lecture, “CT Screening: Lessons from the Canadian Trials” by Stephen Lam, MD, FRCP, Professor of Medicine at The University of British Columbia.
- The spectacular Scottsdale Resort and Spa at Gainey Ranch in Scottsdale, Arizona is framed against the majestic McDowell Mountains and offers a host of recreational activities. The resort features spacious guestrooms with private balconies, a water oasis with ten pools and sand beach, 27 holes of championship golf, an award-winning spa, tennis courts and a variety of restaurants. I look forward to seeing you at this exciting venue in Scottsdale!

Phillip M. Boiselle, MD
STR President

Program
Sunday, March 13, 2016

7:05 AM Case of the Day
Moderator: Ann N. Leung, MD
7:05 AM Case I
John W. Vance, MD
7:15 AM Case II
Milena Patranoic, MD
7:25 AM Introduction and Welcome
Philip M. Boiselle, MD and Ann N. Leung, MD
Session I: Diffuse Lung Disease I
Moderators: Sujal R. Desai, MB, BS, MD and Rachna Madan, MD
7:30 AM ILD in Connective Tissue Diseases: Prospects and Issues
Sujal R. Desai, MBBS, MD, - ESTI Speaker
7:45 AM Scientific Oral Presentation
7:55 AM Scientific Oral Presentation
8:05 AM Hypersensitivity Pneumonitis: Radiologic-Pathologic Correlation
Jeffrey P. Kanne, MD
8:20 AM Scientific Oral Presentation
8:30 AM Scientific Oral Presentation
8:40 AM Recent Developments in Interstitial Lung Disease: Imaging and Its Implications for Therapy
Anne Razzouk, MD, MPH
8:55 AM Scientific Oral Presentation
9:05 AM Scientific Oral Presentation
9:15 AM Holes in the Lung: Time to Revisit the Definitions
James F. Gruden, MD
9:30 AM Sarcoïdosis: Case-Based Review
H. Page McDermott, MD
9:45 AM Q&A/break
Session II: Diffuse Lung Disease II
Moderators: Brett M. Elicker, MD and Steven L. Primack, MD
10:00 AM Labs and Lungs - Serologic Evaluation of ILDs and CTDs for the Radiologist
Travis S. Henry, MD
10:15 AM Coal Workers’ Pneumoconiosis: A Resurgent Problem
James C. Reed, MD
10:30 AM Smoking-Related Interstitial Lung Disease
James C. Reed, MD
10:45 AM Thoracic Manifestations of Primary Histiocytoses
Daniel Vargas, MD
11:00 AM Drug-Related Lung Disease: A Refresher
Simon Walsh, MD, MRCP, FRACR
11:15 AM Non-infectious Diffuse Air-space Disease: A Case-based Review
Kathryn M. Olsen, MD
11:30 AM Exsanguinating Lung Disease: A Review of Clinical and Imaging Findings
Adam M. Benjamin, MD
11:45 AM Q&A Noon LUNCH
Session III: Quality and Best Practices
Moderators: Jeffrey P. Kanne, MD and Santiago Martinez-Jimenez, MD
1:00 PM Thoracic Imaging: Assuring a Value-added Service
Warren B. Gefter, MD
1:15 PM Clinical Decision Support and Thoracic Imaging
Todd R. Hazlett, MD
1:30 PM Optimizing Contrast Utilization
Inna Tociu, MD
1:45 PM Incidental Findings on Chest CT: Significance and Management
Carol C. Wu, MD
2:00 PM Structured Reports in Cardiologic Imaging: A Practical Approach
Eduardo J. Morano Barbosa, Jr, MD
2:15 PM Practice Quality Improvement Projects for Cardiologic Radiologists
Ane Marie Kelly, MD, MS
2:30 PM The Team Approach to Thoracic Surgery: Where are my Radiologists?
Diane C. Strollo, MD, FACR
2:45 PM Q&A/break
Session IV: Pulmonary Arteries and Aorta (SAM)
Moderators: Andretta R. Hunsaker, MD and Brent P. Little, MD
3:00 PM Acute Aortic Syndromes
Sanae Nesh, MBBS, MRCP, FRCR
3:15 PM Intramural Hematoma and Its Variants: How We Do It
Santiago Martinez-Jimenez, MD
3:30 PM What does the Contrast Flow Pattern on CTA Tell Us?
Alabed Chernev, MD
3:45 PM CT Pulmonary Angiography: Technique and Interpretive Pitfalls
Jane P. Ko, MD
4:00 PM Dual-Energy CT in Assessment of Pulmonary Thromboembolic Disease
Rahul D. Ravoorapu, MD
4:15 PM Imaging of Chronic Thromboembolic Pulmonary Hypertension
Carole Dennie, MD
4:30 PM Pulmonary AVFs: Role of CT in Evaluation and Management
Christopher W. Cummings, MD
4:45 PM SAMs discussion
5:00 PM Learning with an Expert: Common Pitfalls with High-Resolution CT
David A. Lynch, MD
6:00 PM Welcome Reception

Monday, March 14, 2016

7:00 AM Case of the Day
Moderator: Patricia M. de Groot, MD
7:00 AM Case I
Patricia M. de Groot, MD
7:10 AM Case II
Joao R. Iozio, MD
7:20 AM Case III
Jane D. Cunningham, MB, BCH, BAO, BMeds
Session V: Lung Nodule/Cancer
Moderators: Brett W. Carter, MD and James G. Raveneau, MD
7:30 AM Cystic Lung Cancers
Jo-Anne O. Shepard, MD
7:45 AM Scientific Oral Presentation
7:55 AM Scientific Oral Presentation
8:05 AM Lung Tumor Volumetry
Friedrich D. Knollmann, MD, PhD
8:20 AM Scientific Oral Presentation
8:30 AM Scientific Oral Presentation
8:40 AM Thermal Ablation of Lung Cancer: State of the Art
Christopher Lee, MD
8:55 AM Scientific Oral Presentation
9:05 AM Scientific Oral Presentation
9:15 AM Benjamin Felson Lecture: Evaluation of Incidental Pulmonary Nodules: Saving Lives or Wasting Time?
Michael K. Gould, MD, MS
9:45 AM Q&A/break
Session VI: Lung Cancer Screening
Moderators: Francine L. Jacobson, MD, MPH and Christopher Lee, MD
10:00 AM Importance of the Regimen of Screening
Claudio I. Henschke, MD, PhD
10:15 AM Update on ACR Lung Cancer Screening Registry
Ella A. Kazerooni, MD
10:30 AM Risk Stratification of Pulmonary Nodules
Theresa C. McLoud, MD
10:45 AM Indolent Lung Cancers: Significance in Screening
Jin Mo Goo, MD, PhD
11:00 AM Lung Cancer Screening in an Inner City Population: Trials and Triumphs
Linde B. Haramati, MD, MS
11:15 AM Speaking with Patients: Increasing the Visibility of Radiologists
Melissa L. Rosado de Christenson, MD, FACR
11:30 AM Scanlon Lecture: CT Screening: Lessons from the Canadian Trials
Stephen Lam, MD, FRCP
Noon Gold Medal/Lifetime Achievement Presentation
Course Description
Thoracic Imaging 2016 is the 34th Annual Meeting and Postgraduate Course of the Society of Thoracic Radiology. This 4-day course will feature internationally recognized experts on the subjects of imaging of the lungs, heart, thoracic vasculature, mediastinum, and pleura.

Felson Lecture:
Evaluation of Incidental Pulmonary Nodules: Saving Lives or Wasting Time?
Michael K. Gould, MD

Gamsu Lecture:
Radiogenomics: Next Generation Rad-Path Correlation – Principles and Applications
Michael Kuo, MD

Scanlon Symposium:
Lessons from the Canadian Trials
Stephen Lam, MD, FRCP(C)

Scientific Sessions and Electronic Poster Presentations

Credit Information
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The Society of Thoracic Radiology (STR) designates this live activity for a maximum of 33.25 AMA PRA Category 1 Credits™. Physicians should claim only credit commensurate with the extent of their participation in the activity.

Four Self-Assessment Modules (SAMs)
Certified by the American Board of Radiology.

Course Objectives
1. List basic concepts in imaging interpretation including pitfalls, anatomic variants and frequently missed diagnoses.
2. Summarize the role of imaging in the assessment of cardiac disease, including diseases of the coronary arteries and great vessels of the thorax.
3. Discuss the role of imaging in the screening, diagnosis, evaluation and management of patients with incidentally detected lung nodules.
4. Discuss the role of imaging in the diagnosis, staging evaluation and management of patients with lung cancer and other thoracic neoplasms.
5. Describe the clinical and radiological evaluation and management strategies of a solitary pulmonary nodule, including the subsolid lesion.
6. Describe current and emerging applications in radiography, computed tomography (CT), magnetic resonance (MR) imaging, and positron emission tomography (PET) as they relate to the evaluation and management of thoracic diseases.
7. Describe a practical and multi-disciplinary approach to the assessment and management of diffuse lung diseases.
8. Describe current issues in infectious diseases of the chest.
9. Discuss the current status of interventional procedures of the chest and spectrum of post-treatment changes in the thorax.
10. Discuss the basic strategies for the interpretation and management of mediastinal abnormalities.

Statement of Need
Radiologists and practitioners with an interest in the science and practice of cardiothoracic imaging need to acquire comprehensive knowledge of the diagnosis, imaging, and management of affected patients to achieve excellence in delivery of care.

Target Audience
This course is designed for cardiothoracic radiologists, diagnostic radiologists, pulmonary medicine specialists, cardiothoracic surgeons, fellows and residents with an interest in cardiothoracic imaging. Because of the prevalence of diseases of the chest in the general population, the course will also be of value to internists and family physicians.

General Meeting Information
Registration will be located outside the Arizona Ballroom on the first floor of the hotel. Registration begins on Saturday, March 12 from 2:00 – 5:00 p.m. and will be held during the normal hours of the meeting.

Registration rates can be found on the registration page in the brochure. Early registration applies before February 4, 2016. The registration fee includes an electronic syllabus, continental breakfasts, breaks and a welcome reception. The reception is for all registrants and their guests.

Cancellation
A $100 administrative fee will be retained if registration is cancelled prior to February 26, 2016. Thereafter, no refunds can be made. Cancellations will be accepted in writing only, via fax or email.

Society Membership Information
Membership in the Society of Thoracic Radiology is open to any radiologist who has an interest in thoracic radiology. For more information, contact the Society of Thoracic Radiology, c/o Matrix Meetings, Inc., 1202½ Seventh Street NW, Suite 209, Rochester, MN 55901; Telephone: 507-288-5620; Fax: 507-288-0014; E-mail: str@thoracicrad.org; Internet: www.thoracicrad.org.

Be sure to apply for membership prior to February 4, 2016 to receive the STR member rate for the 2016 Annual Meeting.

Ground Transportation
Hertz Car Rental has been designated as the car rental agency for the meeting. Special rates have been extended to our group with weekly rates beginning at $220.00 for car rental in the Phoenix area. Reservations may be made by calling Hertz at 800-654-2240, your local Hertz office, your travel agent, or on line at www.hertz.com. The Hertz identification number, CV# 04M00005, must be identified to obtain the special rates.

The Phoenix Sky Harbor International Airport is approximately 15 miles (20 minutes) from the Hyatt Regency Scottsdale Resort at Gainey Ranch. A taxi will cost approximately $50 (one way) and the Super Shuttle is $21 for each passenger (one way). http://www.supershuttle.com
MEETING REGISTRATION FORM
Thoracic Imaging 2016 • March 13 - 16, 2016
Hyatt Regency Scottsdale Resort & Spa at Gainey Ranch
Scottsdale, Arizona

To register online and to view course information, please visit the website:
http://www.thoracicrad.org/meetings/index.htm

A PDF of the registration page will also be available on the website to print and mail or fax to the STR office.

Registration Fees


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<th>Before Feb 4</th>
<th>Feb 4 – March 10</th>
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<tr>
<td>STR Member in good standing</td>
<td>$ 745</td>
<td>$ 795</td>
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<td>Practicing Physician</td>
<td>$1,175</td>
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<td>One (1) In-Training Presenting Author of an Unknown Case or abstract (oral or poster)</td>
<td>$ 375</td>
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<td>One day registration</td>
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Lung Cancer Screening – March 12, 2016

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<td>Full-Day Track</td>
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<tr>
<td>STR/ACR members</td>
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<td>Half-Day Track</td>
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<tr>
<td>STR/ACR members</td>
<td>$ 150</td>
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<tr>
<td>Reduced Rate if attend both Annual Meeting and Lung Cancer Screening</td>
<td>$ 225</td>
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<tr>
<td>Virtual Symposium</td>
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Reduced rate for attendance at both Lung Cancer Screening and Annual meetings

Americans with Disabilities
Individuals who need auxiliary aids or services as identified in the Americans with Disabilities Act, please contact the Society office at least two weeks prior to the meeting by phone (507-288-5620), fax (507-288-0014), or e-mail (str@thoracicrad.org).

Register online at www.thoracicrad.org
ACCOMMODATIONS

Hyatt Regency Scottsdale Resort & Spa at Gainey Ranch
7500 East Doubletree Ranch Road
Scottsdale, AZ  85258

A limited number of rooms have been reserved for attendees and their guests with special course rates at the Hyatt Regency Scottsdale Resort & Spa at Gainey Ranch. In order to receive the special rate, reservations must be made before the room block is filled or before the expiration date of February 11, 2016, whichever comes first. Reservations will be taken following this date on space and rate availability. Identify yourself as a Society of Thoracic Radiology participant. Reservations are good for three (3) days before and three (3) days after the official meeting dates, based on hotel availability. Reservations can be made by calling (888) 421-1442 or online at https://resweb.passkey.com/go/thoracic2016

Check in: 4:00 pm
Check out: 12:00 pm

$295 Single/Double + tax

Location

Set amidst flowering cactus and framed against the majestic McDowell Mountains, Hyatt Regency Scottsdale Resort & Spa is minutes from a host of activities and miles from the ordinary. Enjoy the endless wonders of 27 acres and breathtaking vistas blended with intriguing Native American Culture and pampering amenities. The resort features spacious guestrooms with private balconies, a 2½ acre water oasis with ten pools and sand beach, 27 holes of championship golf on property, award-winning Spa Avania, 4 tennis courts and 4 restaurants.