



Thoracic Imaging 2015



ANNUAL MEETING AND POSTGRADUATE COURSE

MARCH 15-18, 2015

THE ESSENTIALS OF CT SCREENING FOR LUNG CANCER

MARCH 14, 2015

PARK HYATT AVIARA RESORT ■ CARLSBAD, CALIFORNIA

From the President

The Society of Thoracic Radiology hosts its 33rd annual meeting March 15-18, 2015 at the Park Hyatt Aviara Resort in Carlsbad, California. The program committee, headed by President-Elect Phillip Boiselle, MD, has designed an outstanding, comprehensive postgraduate radiology course in cardiothoracic imaging. The course will be preceded on Saturday, March 14, 2015 by a day-long multidisciplinary symposium, "The Essentials of CT Screening for Lung Cancer". The symposium has been developed by co-directors Drs. Denise Aberle, Caroline Chiles, and David Lynch and 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 main course curriculum covers a variety of cardiothoracic imaging topics including lung cancer screening, diffuse lung diseases, pulmonary infections, oncologic imaging and interventional management, evidence-based imaging and educational topics, cardiothoracic emergencies and cardiovascular imaging. Self-assessment modules (SAMs) will provide important opportunities for maintenance of certification and life-long learning needs.

The Benjamin Felson Memorial lecture, "CT Screening: Role of the Thoracic Surgeon" will be delivered by Douglas Wood, MD, Professor of Cardiothoracic Surgery at the University of Washington-Seattle. It is also a pleasure to announce that the Gordon Gamsu Memorial Lecture, "Management of Screen-Detected Nodules: A Pulmonologist's Perspective" will be delivered by Gerard Silvestri, MD, Professor of Pulmonary Medicine at the Medical University of South Carolina, Charleston. The Scanlon Symposium this year focuses on lung cancer screening. The featured lecture in this session, "Selected Topics in Lung Cancer Screening: 2015 Update" will be delivered by Martin Tammemägi, PhD, Professor of Epidemiology at Brock University.

You can review the entire program at the Society's web site: www.thoracicrad.org.

The spectacular Park Hyatt Aviara Resort in Carlsbad, located just north of San Diego, is listed in Travel+Leisure as one of the world's best hotels. It is a casually elegant resort secluded amidst 200 acres of hillsides and valleys, with views of the Pacific Ocean and an adjacent wildlife sanctuary. Recreational opportunities at this 5-diamond resort include tennis, golf, a state-of-the-art fitness center and spa, and beach butler service. In addition, the adjacent Carlsbad, La Jolla, and San Diego communities have much to offer. Please join us at this exciting venue and participate in an outstanding program in cardiothoracic imaging. I look forward to seeing you.

Jeremy J. Erasmus, MD
STR President

Program

Sunday, March 15, 2015

6:30 AM	Continental Breakfast
7:00-8:00 AM	Scientific Session: Diffuse Lung Disease Moderators: Sujal R. Desai, MBBS, MD and Terrance T. Healey, MD
8:00-10:30 AM	Guests Welcome Continental Breakfast
Session I: Diffuse Lung Disease I	
	Moderators: Brett M. Elicker, MD and Steven M. Montner, MD
8:00 AM	HRCT Interpretation: How Necessary is Clinical Data? <i>David M. Hansell, MD</i>
8:15 AM	Pulmonary Function Testing for the Chest Radiologist <i>Brent P. Little, MD</i>
8:30 AM	What's New in Interstitial Lung Disease: New Entities, Imaging Criteria and Treatment Options <i>Anna Rozenshtein, MD, MPH</i>
8:45 AM	Progress in Idiopathic Pulmonary Fibrosis <i>David A. Lynch, MB</i>
9:00 AM	Hypersensitivity Pneumonitis <i>Santiago E. Rossi, MD</i>
9:15 AM	Imaging Manifestations of Collagen Vascular Disease <i>Steven Primack, MD</i>
9:30 AM	Smoking Related Lung Disease - An Update <i>Jeffrey P. Kanne, MD</i>
9:45 AM	Q & A/Break
Session II: Diffuse Lung Disease II	
	Moderators: David A. Lynch, MB and Rachna Madan, MD
10:00 AM	Role of HRCT within the MDT Framework in the Setting of Diffuse Lung Disease <i>Simon Walsh, MD, MRCP, FFRCSI</i>
10:15 AM	HRCT of Acute Lung Diseases <i>Brett M. Elicker, MD</i>
10:30 AM	Imaging of Pulmonary Hemorrhage Syndromes <i>Steven M. Montner, MD</i>
10:45 AM	Cystic Lung Disease: Not Just LAM <i>Stephen Hobbs, MD</i>
11:00 AM	The Many Faces of Sarcoidosis <i>Andetta R. Hunsaker, MD</i>
11:15 AM	Non-Resolving Consolidation <i>Archana Laroia, MD</i>
11:30 AM	Pulmonary Alveolar Proteinosis <i>J. Michael Halbert, MD</i>
11:45 AM	Q & A
12:00-1:00 PM	Lunch
Session III: Pulmonary Infections	
	Moderators: Sudhakar N. J. Pipavath, MD and Carol C. Wu, MD
1:00 PM	Emerging Thoracic Infections <i>Loren H. Ketaj, MD</i>
1:15 PM	Hemorrhagic and Vascular Complications of Lung Infections <i>Tomás C. Franquet, MD</i>
1:30 PM	Chronic Pulmonary Aspergillosis - What Exactly Is It and How Do I Recognize It? <i>Sujal R. Desai, MBBS, MD</i>
1:45 PM	Community-Acquired Pneumonia <i>Elizabeth H. Moore, MD</i>
2:00 PM	Imaging of Pulmonary Non-Tuberculous Mycobacterial Infection <i>H. Page McAdams, MD</i>
2:15 PM	Imaging of Pulmonary Infections - How Good Are We? <i>Rachna Madan, MD</i>
2:30 PM	Pulmonary Infections of the Transplanted Patient <i>Veronica A. Arteaga, MD</i>
2:45 PM	Q & A/Break
Session IV: Pulmonary Arteries and Aorta (SAM Session)	
	Moderators: Archana Laroia, MD and Mark L. Schiebler, MD
3:00 PM	Update on Acute Aortic Syndrome <i>Diana Litmanovich, MD</i>
3:15 PM	Imaging of Post Op Aorta <i>Adam Jacobi, MD</i>
3:30 PM	TEVAR <i>Amar B. Shah, MD</i>
3:45 PM	Genetic Mutations Predisposing to Thoracic Aortic Aneurysm <i>Daniel Vargas, MD</i>
4:00 PM	Pulmonary Embolism Imaging: Technical and Clinical Update <i>Carole A. Ridge, MD</i>

4:15 PM	Emerging Techniques in Evaluation of Chronic Thromboembolic Pulmonary Hypertension (CTEPH) <i>Rahul D. Renapurkar, MD</i>
4:30 PM	Pulmonary Hypertension: Beyond Diagnosis in the Era of CT and MRI <i>Eduardo J. Mortani Barbosa, Jr., MD</i>
4:45 PM	SAMS Questions
4:55 PM	Q & A/Break
5:15 PM	Reading Cases with the Experts <i>Andetta R. Hunsaker, MD and Rachna Madan, MD</i>
6:30 - 8:00 PM	Welcome Reception

Monday, March 16, 2015

6:30 AM	Continental Breakfast
Unknown Cases Moderator: David M. Naeger, MD	
7:00 AM	Case 1 <i>Matthew R. Bentz, MD</i>
7:10 AM	Case 2 <i>Marie-Helene Levesque, MD</i>
7:20 AM	Case 3 <i>David N. Simmons, MD</i>
7:30 AM	Case 4 <i>Karen C. Song, MD</i>
7:40 AM	Case 5 <i>Marianna Zagurovskaya, MD</i>
Session V: Lung Nodules/Cancer: Combined Scientific and Educational Session	
	Moderators: Jane P. Ko, MD and Mark S. Parker, MD
8:00 AM	Pulmonary Nodule Pitfalls: Tweaking the ROC Curve <i>Robert M. DeWitt, MD</i>
8:15-8:35 AM	Scientific Presentations
8:35 AM	Lung Biopsy: Technique and Approach in Era of Molecular Pathology <i>Fereidoun G. Abtin, MD</i>
8:50-9:20 AM	Scientific Presentations
9:20 AM	Image-Guided Thermal Ablation of Lung Lesions <i>Jeffrey S. Klein, MD</i>
9:35-10:00 AM	Q & A/Break
Session VI: Lung Cancer Screening	
	Moderators: Gerald F. Abbott, MD and Phillip M. Boiselle, MD
10:00 AM	Maximizing the Benefits and Minimizing the Harms of CT Screening <i>Ella A. Kazerooni, MD</i>
10:25 AM	Standing on the Shoulders of Giants <i>Gerald F. Abbott, MD</i>
10:30 AM	Scanlon Lecture Selected Topics in Lung Cancer Screening: 2015 Update <i>Martin Tammemägi, PhD</i>
11:00 AM	Gordon Gamsu Memorial Lecture Management of Screen-Detected Nodules: A Pulmonologist's Perspective <i>Gerald A. Silvestri, MD</i>
11:30 AM	Benjamin Felson Memorial Lecture CT Screening: Role of the Thoracic Surgeon <i>Douglas E. Wood, MD</i>
12:00-2:00 PM	STR Business Meeting/Lunch
Session VII: Mixing It Up: Miscellaneous Topics	
	Moderators: David M. Naeger, MD and Binh T. Nguyen, MD
2:00 PM	Unusual Devices Seen on Chest Radiographs <i>Nikhil Goyal, MD</i>
2:15 PM	ECMO in Adults: Indications, Types, and Complications <i>Abhishek Chaturvedi, MD</i>
2:30 PM	Identification and Management of Complications of Congenital Lung Disease in the Adult <i>Beatrice Trotman-Dickenson, MD</i>
2:45 PM	Improving the Radiologic Diagnosis of UIP <i>James F. Gruden, MD</i>
3:00 PM	Thoracic Manifestations of Rheumatoid Arthritis: A Case-Based Approach <i>Cristopher A. Meyer, MD</i>
3:15 PM	Management of Pulmonary Arteriovenous Malformations <i>Steven M. Zangan, MD</i>
3:30 PM	Incidentals and Artifacts in the Chest on Whole-body PET/CT <i>David M. Naeger, MD</i>
3:45 PM	Incidentals of the Thyroid Gland: What To Do With Them <i>Richard M. Gore, MD</i>
4:00 PM	Q & A/Break

Program

Session VIII: Thoracic Oncology (SAM Session)

Moderators: Caroline Chiles, MD and Elsie Nguyen, MD, FRCPC

- 4:15 PM Lung Cancer Treatment: Radiologist's Emerging Role Using Thermal Ablations for Both Cure and Palliation
Terrance T. Healey, MD
- 4:30 PM Percutaneous Lung Tumor Localization Techniques to Assist Surgical Excision
Michael Moynagh, MD
- 4:45 PM Pleural and Chest Wall Tumors
Ritu Gill, MD, MPH
- 5:00 PM Patterns of Lymphadenopathy in Common Thoracic Malignancies
Juliana Bueno, MD
- 5:15 PM Fitting the NCCN Lung Cancer Screening Guidelines (Version 1.2014) to the ACR Lung-RADS Version 1.0 Assessment Categories
Eric M. Hart, MD
- 5:30 PM Probability of Malignancy by Nodule Consistency: Use of a Large Database
Claudia I. Henschke, MD, PhD
- 5:45 PM Lung Cancer Screening in the Era of Population Management
Francine L. Jacobson, MD, MPH
- 6:00 PM SAMS Questions
- 6:10 PM End of Day

Tuesday, March 17, 2015

6:30 AM Continental Breakfast

- 7:00-8:00 AM **Scientific Session: Vasculture and Technology**
Moderators: Brett W. Carter, MD and Amita Sharma, MD

Session IX: Mediastinum and Pleura (SAM Session)

Moderators: Jeanne B. Ackman, MD and Ralph Drostens, MD

- 8:00 AM Mediastinal Masses
Diane C. Strollo, MD, FACP
- 8:15 AM New ITMIG CT Classification of Mediastinal Compartments
Brett W. Carter, MD
- 8:30 AM Deciphering Thymic Lesions
Jeanne B. Ackman, MD
- 8:45 AM Mediastinal Abnormalities: DWI/ADC Application in Thoracic Malignancies
Bijan Bijan, MD, MBA
- 9:00 AM Esophageal Disease: Looking Beyond Cancer
Susan K. Hobbs, MD, PhD
- 9:15 AM Imaging Pleural Diseases
Sushilkumar K. Sonavane, MD
- 9:30 AM SAMS Questions
- 9:40 AM **Q & A/Break**

Session X: Hot Topics in Cardiothoracic Imaging

Moderator: Jeffrey P. Kanne, MD

- 10:00 AM Structured Reporting for the Thoracic Radiologist - The Time Has Come
Theresa C. McLoud, MD
- 10:15 AM Transthoracic Needle Biopsy in the Molecular Profiling Era
Christopher Lee, MD
- 10:30 AM Incidental Findings on Chest CT: Significance and Management
Carol C. Wu, MD
- 10:45 AM Preoperative Planning for Cardiac Surgery: How is CT Being Utilized?
Andrew J. Bierhals, MD, MPH
- 11:00 AM Update on TAVR
Gregory D. N. Pearson, MD, PhD
- 11:15 AM Fractional Flow Reserve CT
Jonathon Leipsic, MD
- 11:30 AM Quantitative Lung Imaging
Jonathan T. Goldin, MBChB, PhD
- 11:45 AM **Q & A**
- 12:00-1:00 PM **Lunch**

Session XI: Cardiothoracic Emergencies

Moderators: Brett P. Little, MD and Perry G. Pernicano, MD

- 1:00 PM Controversies in Acute Aortic Syndrome
Santiago Martinez-Jimenez, MD
- 1:15 PM Thoracic Imaging in War
John P. Lichtenberger, III, MD
- 1:30 PM Thoracic Complications in the Oncology Patient
Michelle S. Ginsberg, MD
- 1:45 PM Evaluation of Tracheobronchial Injuries
Ioannis "Johnny" Vlahos, MD
- 2:00 PM Complications of Lung and Esophageal Surgery
Jeffrey B. Alpert, MD
- 2:15 PM Aortic Valve and Root: Emergent Postsurgical Complications
Travis S. Henry, MD
- 2:30 PM **Q & A/Break**

Session XII: Ischemic Heart Disease

Moderators: Karin E. Dill, MD and Andetta R. Hunsaker, MD

- 2:45 PM Coronary Artery CT: Utility and New Frontiers
Narinder S. Paul, MD, FRCR
- 3:00 PM The Artificial Heart: Overview and the Role of Imaging
Karin E. Dill, MD
- 3:15 PM Evidence for Medical Management vs. Revascularization: Guidance from Cardiac MR and CT
Subha Ghosh, MBBS, MD
- 3:30 PM Cardiac FDG PET-CT Evaluation
H. Henry Guo, MD, PhD
- 3:45 PM Cardiac CT: Beyond Coronary Artery Patency Imaging
Baskaran Sundaram, MBBS, MRCP, FRCR
- 4:00 PM **Q & A/ End of Day (except Jr Faculty)**

Career Development Session for Fellow and Junior Faculty

Members: Publishing Your Work in Radiology Journals

Moderator: Phillip M. Boiselle, MD

- 4:15 PM Getting Your Work Published
Jeffrey S. Klein, MD
- 4:45 PM Panel Discussion: Phillip M. Boiselle, MD, Patrick M. Colletti, MD, Jeffrey S. Klein, MD, and Eric J. Stern, MD
- 5:30 PM **Student/Resident/Fellow Reception**

Wednesday, March 18, 2015

6:30 AM Continental Breakfast

- 7:00-8:00 AM **Scientific Session: Cardiac Imaging**
Moderators: Kristopher W. Cummings, MD and Baskaran Sundaram, MBBS, MRCP, FRCR

Session XIII: Cardiac Imaging Bootcamp/Basics

Moderators: Arlene Sirajuddin, MD and Jubal R. Watts, Jr., MD, FCCP

- 8:00 AM Coronary Anatomy and Normal Variants
Isabel B. Oliva, MD
- 8:15 AM Coronary Artery Anomalies
Shawn D. Teague, MD
- 8:30 AM Step-by-Step Analysis of Cardiac Chambers on CT
Ahmed El-Sherief, MD
- 8:45 AM Basic Approach to Cardiac MRI and Ischemic Heart Disease
Jadranka Stojanovska, MD
- 9:00 AM Delayed Enhancement Imaging - Patterns, Pitfalls, and Pathology
Prabhakar Rajiah, MD
- 9:15 AM The Normal and Abnormal Pericardium
Sharon S. Brouha, MD
- 9:30 AM Cardiac Devices
Curtis Green, MD
- 9:45 AM **Q & A/Break**

Session XIV: Nonischemic Cardiac Disease (SAM Session)

Moderators: Prabhakar Rajiah, MD and Carlos S. Restrepo, MD

- 10:00 AM Nonischemic Cardiomyopathies
Kristopher W. Cummings, MD
- 10:15 AM Cardiac Aneurysms, Pseudoaneurysms and Diverticula
Carlos S. Restrepo, MD
- 10:30 AM Hardware in the Chest - From VADs to Valves
Cristina Fuss, MD
- 10:45 AM Tips and Tricks for Shunt Quantification
Prachi P. Agarwal, MD
- 11:00 AM Cardiac MRI Assessment of Valve Disease - A Practical Approach
Sangita Kapur, MD
- 11:15 AM Role of Imaging in Cardiac Electrophysiology
Friedrich D. Knollmann, MD, PhD
- 11:30 AM Cardiac Complications in the Oncologic Patient
Andrew Plodkowski, MD
- 11:45 AM SAMS Questions

11:55 AM Q & A

12:00 - 1:00 PM Lunch

Session XV: COPD and Airways

Moderators: James C. Reed, MD and Christopher Lee, MD

- 1:00 PM A Practical Step-by-Step Approach to CT of Diffuse Central Airways Diseases
Cylen Javidan-Nejad, MD
- 1:15 PM Quantitative Imaging of Asthma
Mark L. Schiebler, MD
- 1:30 PM Causes and Imaging Patterns Associated with Tree-in-Bud
Wallace T. Miller, Sr., MD
- 1:45 PM Small Airways Disease
Arlene Sirajuddin, MD
- 2:00 PM Cystic Fibrosis
Cheng Ting Lin, MD
- 2:15 PM Mosaic Attenuation Differential Diagnosis and Methods of Differentiation
Seth J. Kligerman, MD

2:30 PM Q & A/Break

Session XVI: Evidence-Based Imaging and Educational Topics

Moderator: Jeffrey P. Kanne, MD

- 2:45 PM Perception Versus Reality: The Emperor's New Clothes
Marc V. Gosselin, MD
- 3:00 PM Pulmonary Embolism: Evidence for Overdiagnosis on CT
Linda B. Haramati, MD
- 3:15 PM Methodologies in Adult Education: Traditional and Novel
Jonathan H. Chung, MD
- 3:30 PM Flipped Classroom
Judith K. Amorosa, MD
- 3:45 PM Peer Review in Cardiothoracic Radiology
Jeffrey P. Kanne, MD
- 4:00 PM **Q & A/End of Program**

Faculty

Gerald F. Abbott, MD
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UCLA Ronald Reagan Hospital

Jeanne B. Ackman, MD
Massachusetts General Hospital

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Brett M. Elicker, MD

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Brent P. Little, MD
Rachna Madan, MD
David M. Naeger, MD

Sudhakar N.J. Pipavath, MD
Prabhakar Rajiah, MD
Arlene Sirajuddin, MD

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Kristopher W. Cummings, MD

Sujal R. Desai, MD
Edwin F. Donnelly, MD

Terrance T. Healey, MD
Amita Sharma, MD

Baskaran Sundaram, MBBS, MRCP, FRCR
Mylene T. Truong, MD

Course Highlights

Felson Lecture:

CT Screening: Role of the Thoracic Surgeon
Douglas E. Wood, MD

Gamsu Lecture:

Management of Screen-Detected Nodules:
A Pulmonologist's Perspective
Gerard A. Silvestri, MD

Scanlon Symposium:

Selected Topics in Lung Cancer Screening:
2015 Update
Martin C. Tammemägi, PhD

Scientific Sessions and Poster Presentations

Reading Cases with the Experts

Reading Cases with the Experts is an interactive case-based review of cardiothoracic imaging with focus on differential diagnosis and pearls.

Career Development Session for Junior Faculty and Fellows

This career development session includes a presentation on publishing in radiology journals followed by a panel discussion with journal editors.

Credit Information

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 **34.0 AMA PRA Category 1 Credits™**. Physicians should only claim 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. Understand the role of imaging in the screening, diagnosis, evaluation and management of patients with incidentally detected lung nodules.
4. Understand 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 applications in 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 multidisciplinary approach to the assessment of diffuse lung diseases.
8. Describe current issues in infectious diseases of the chest.
9. Understand the current status of interventional procedures of the chest and spectrum of post treatment changes in the thorax.
10. Understand basic strategies for the interpretation and management of mediastinal abnormalities.
11. Understand current imaging strategies in the evaluation of pleural diseases.

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.

General Meeting Information

Registration will be located outside the Grand Ballroom on the third floor of the hotel. Registration begins on Saturday, March 14 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 5, 2015. 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 27, 2015. 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 5, 2015 to receive the STR member rate for the 2015 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 \$169.00 for car rental in Southern California. 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# 04M00004**, must be identified to obtain the special rates.

The San Diego International airport is approximately 30 miles (45 minutes) from the Park Hyatt Aviara resort. The Cloud 9 Super Shuttle (800-258-3826) is \$33.00 + tax per person (one way) and a taxi will cost approximately \$100 (one way).