Pulmonary Nodule
State of the Art
A MULTIDISCIPLINARY TEAM APPROACH

Friday
December 7, 2018

The Ritz-Carlton Hotel, St. Louis, Missouri

Course Chair
Alexander C. Chen, MD

Presented By
The Division of Pulmonary and Critical Care Medicine

Credit Provided By
Washington University School of Medicine in St. Louis Continuing Medical Education
AGENDA

7:30am  Registration & Continental Breakfast

7:55    Welcome and Introduction - Alexander C. Chen, MD

8:20    Updates on Lung Cancer Screening
         Andrew J. Bierhals, MD, MPH

8:40    Systematic Approach to Evaluating the Pulmonary Nodule - Momen M. Wahidi, MD, MBA

9:00    Radial Probe Endobronchial Ultrasound
         Kevin Haas, MD

9:20    Electromagnetic Navigation
         Praveen R. Chenna, MD, MBA

9:40    Ultrasound Guided Transthoracic Biopsy
         Martin L. Mayse, MD

10:00   Refreshment Break

10:20   Electromagnetic Navigation Assisted Transthoracic Needle Aspiration and Bronchoscopic Transparenchymal Needle Aspiration
         Lonny Yarmus, DO, MBA


11:00   Pro-con Debate: Stereotactic Body Radiation Therapy vs. Surgery for Early Stage Lung Cancer
         Pro SBRT - Bryan Meyers, MD
         Pro Surgery - Michael C. Roach, MD

11:30   Luncheon (to be provided)

Physician Breakout

12:30pm Hands-On Sessions:
   - Electromagnetic Navigation
   - Radial Endobronchial Ultrasound
   - Virtual Bronchoscopy
   - Ultrasound-Guided Transthoracic Biopsy & Needle Aspiration

2:30    Refreshment Break

3:00    Resume Hands-On Session
Respiratory Therapists, Nurses, Nurse Practitioners

12:30pm Welcome & Introduction - Alexander C. Chen, MD

12:40 Nursing Roles in Pulmonary Procedures: Maximizing Efficiency, Procedural Sedation, Prep and Recovery
   Teresa D. Hunt, BSN, RN and BJH Interventional Pulmonary Nursing Team

1:00 Role of Respiratory Therapy in Bronchoscopy: Oxygenation, Airway and Procedural Monitoring
   Jennifer Ammons, RRT

1:30 Role for Advanced Practice Nurses and Physician Assistants in Pulmonary Procedures: Pleural Procedures
   - Jennifer A. Massoni, DNP, NP-C

2:00 Question & Answer Session

2:30 Refreshments and Adjourn

3:00 Hands-On Session: Bronchoscopy room set-up and simulated procedure: Preparation, procedural aspects and recovery

5:00 Adjourn

ACCREDITATION

In support of improving patient care, Washington University School of Medicine in St. Louis is jointly accredited by the Accreditation Council for Continuing Medical Education (ACCME), the Accreditation Council for Pharmacy Education (ACPE), and the American Nurses Credentialing Center (ANCC), to provide continuing education for the healthcare team.

Credits Offered for this Activity:

American Medical Association (AMA)
Washington University School of Medicine in St. Louis designates this live activity for a maximum of 7.25 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

American Nurses Credentialing Center (ANCC)
This activity is awarded up to 7.25 ANCC contact hours.

AARC CRCE (American Association for Respiratory Care, Continuing Respiratory Education) Credit hours applied for.
**Guest Faculty**

**Kevin Haas**, MD, Assistant Professor of Clinical Medicine  
Associate Program Director for Interventional Pulmonary  
University of Illinois Hospital, Chicago, Illinois

**Martin L. Mayse**, MD  
Co-Founder and Chief Technology Officer, Nuvaira, Inc., Plymouth, Minnesota

**Momen M. Wahidi**, MD, MBA, Associate Professor of Medicine  
Director, Interventional Pulmonology and Bronchoscopy  
Division of Pulmonary, Allergy and Critical Care Medicine  
Duke University Medical Center, Durham, North Carolina

**Lonny Yarmus, DO, MBA**, Associate Professor of Medicine and Oncology  
Clinical Director, Division of Pulmonary and Critical Care  
Director, Interventional Pulmonary Research Core  
Johns Hopkins Medical Institutions, Baltimore, Maryland

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**Washington University School of Medicine Activity Faculty**

**Jennifer Ammons**, RRT *, Registered Respiratory Therapist  
Interventional Pulmonology, Barnes-Jewish Hospital

**Andrew J. Bierhals**, MD, MPH, Assistant Professor of Radiology  
Division of Diagnostic Radiology, Cardiothoracic Imaging Section  
Director, Cardiothoracic Imaging at Barnes-Jewish West County Hospital  
Medical Director (CT), Center for Clinical Imaging Research  
Cardiothoracic Imaging Section, Mallinckrodt Institute of Radiology

**Alexander C. Chen**, MD,* Associate Professor of Medicine  
Director, Interventional Pulmonology; Division of Pulmonary and Critical Care Medicine  
Associate Professor of Surgery; Division of Cardiothoracic Surgery

**Praveen R. Chenna**, MD, MBA, Assistant Professor of Medicine  
Assistant Director of Interventional Pulmonology  
Program Director, Interventional Pulmonology Fellowship; Diplomat of the AABIP  
Division of Pulmonary and Critical Care Medicine

**Teresa D. Hunt**, BSN, RN  
Staff Nurse, Interventional Pulmonology, Barnes-Jewish Hospital

**Jennifer A. Massoni**, DNP, NP-C *  
Adult Nurse Practitioner, Interventional Pulmonology, Barnes-Jewish Hospital

**Bryan Meyers**, MD, Patrick and Joy Williamson Professor of Surgery  
Chief, Section of Thoracic Surgery; Division of Cardiothoracic Surgery

**Michael C. Roach**, MD, Assistant Professor of Radiation Oncology

* **Planning Committee**

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The diagnosis and management of pulmonary nodules has become an increasing part of today’s medical practice. With the adoption of lung cancer screening in high-risk individuals, practitioners are expected to encounter increasing numbers of pulmonary nodules. Given this expected increase in the number of screen detected findings, it is important that clinicians and patients have a comprehensive and up-to-date understanding of all aspects of lung nodule care, inclusive of whom to screen, when to biopsy, available technologies for diagnosing pulmonary nodules and optimal treatment strategies for all patients, including those who may not be optimal surgical candidates.

This course will provide a comprehensive overview of the evaluation, diagnosis and treatment of pulmonary nodules using contemporary evidence-based approaches, and will provide attendees with updates on state of the art research related to the field including ultrathin bronchoscopic techniques, robotic bronchoscopy, navigational methods and bronchoscopic ablation for early stage lung cancer using presentation and hands-on approaches. Topic updates such as the inclusion of liquid biomarkers for the detection of lung cancer and a section on robotics for peripheral lesion biopsy and updates on technology.

This activity is designed for physicians with all levels of experience, including practicing pulmonary physicians, interventional pulmonologists, critical care physicians, thoracic surgeons, cardiothoracic and cardiovascular surgeons, interventional radiologists, medical oncologists, radiation oncologists, respiratory therapists, physician assistants and nurse practitioners. The intended result of this activity is increased knowledge, competence and performance towards the evaluation and management of the pulmonary nodule. At the conclusion of this activity, participants should be able to:

- Describe new techniques to diagnose pulmonary nodules.
- Incorporate new techniques to treat and manage pulmonary nodules.

In addition to outlining current practice guidelines, this course will discuss the latest innovations within the space such as bronchoscopic ablation, novel navigational techniques and robotic bronchoscopy.

Physician Hands-On Sessions to Include:
- Electromagnetic Navigation
- Radial Endobronchial Ultrasound
- Virtual Bronchoscopy
- Ultrasound-Guided Transthoracic Biopsy & Needle Aspiration

Respiratory Therapists, Nurses and Nurse Practitioners Hands-On:
Bronchoscopy room set-up and simulated procedure: preparation, procedural aspects and recovery.
Location: The Ritz-Carlton, 100 Carondelet Plaza, Clayton, MO 63105, 2nd Floor Amphitheatre. Meeting room temperatures are difficult to regulate to everyone’s preference; bringing a jacket or sweater is recommended.

Parking: Courtesy self-parking in the Ritz garage has been arranged for paid registrants. Please notify the attendant that you are attending the Washington University Seminar. Valet parking can not be validated.

Hotel Accommodations: A limited number of rooms are being held at The Ritz-Carlton. To assure lodging at the special discount rate make your reservations early but no later than November 6, 2018 directly with The Ritz-Carlton and request the room block rate for Washington University.

The Ritz-Carlton  (314) 863-6300 or (800) 960-7056
100 Carondelet Plaza, Clayton, Missouri 63105
www.ritzcarlton.com/stlouis
Special Washington University Rate - $189 Deluxe Guest Room (+tax)

Please Note: Washington University is not responsible for airline or hotel reservations. Please confirm registration acceptance prior to purchase of nonrefundable or penalty airline tickets.

Cancellations: Registration fee less $25 administrative charge is refundable if cancellation is received in writing by November 30, 2018. Registration fee is non-transferable.

Special Needs: Continuing Medical Education at Washington University School of Medicine in St. Louis fully complies with the legal requirements of the Americans with Disabilities Act rules and regulations thereof. If any participant of this meeting is in need of accommodations, submit written requests at least one month prior to seminar date.

Syllabus: Syllabus will be provided via an online website. Bring your laptop or tablet to view. Website and password will be provided.

For Further Seminar Information:
Continuing Medical Education, Washington University School of Medicine
Phones: (314) 362-6891  (800) 325-9862  Fax: (314) 362-1087
Email: CME@wustl.edu  Website: cme.wustl.edu

Day of Seminar Only Telephone Number: (314) 863-6300
Callers should ask for the Washington University Pulmonary Nodule Conference.

Minimum and maximum enrollments have been established

This activity is supported in part by educational grants from various commercial organizations. A complete list of commercial supporters will be available at the time of the conference. Some companies may also exhibit.
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Friday, December 7, 2018
To ensure proper spelling of your name, please print clearly.

First Name  Initial  Last Name         Degree

Address

City/ State/ Zip

Office Phone    Fax

Email (required)

Specialty

**REGISTRATION FEES**

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Fees include enrollment, continuing education credits, educational materials, continental breakfast, refreshment breaks, luncheon and self-parking in the Ritz garage.

**Syllabus:** Syllabus will be provided via an online website. Bring your laptop or tablet to view. Website and password will be provided.

**WAYS TO REGISTER**

- **ONLINE** Secure online registration available at: [http://cme.wustl.edu](http://cme.wustl.edu)
- **MAIL** this completed form with your check payable to Washington University
  and mail to:
  CME/CSRB 2214, CB 8063
  660 S Euclid Ave., St. Louis, MO 63110

**Registration/Payment Policy:** Your full payment in advance completes your registration and ensures your enrollment in this course. Opportunities for on-site registration are limited and may be unavailable. To inquire about the availability to register on-site, please contact the CME office.