



Advanced Robotic and Navigational Bronchoscopy

We gratefully acknowledge the follow companies for their (financial/in-kind) support:

Start Date: October 18, 2025

End Date: October 18, 2025



Title: Advanced Robotic and Navigational Bronchoscopy

Chair: Laura K. Frye, MD

Co-Chair(s): Otis B. Rickman, DO, FCCP

Date: October 18, 2025

Location: Convention Center Room, McCormick Place Lakeside Center, Room 451B

| Time | Presentation Title | Faculty |
|---------------------|---------------------------|--|
| 6:30 AM – 7:30 AM | Continental Breakfast | All Faculty |
| 7:30 AM – 7:45 AM | Welcome and Introductions | Laura K. Frye, MD Otis B. Rickman, DO, FCCP |
| 7:45 AM – 9:00 AM | Case-Based Discussion | Sean P. Callahan, MD Colleen L. Channick, MD, FCCP Zachary S. DePew, MD, FCCP Laura K. Frye, MD Colin T. Gillespie, MD Hiren J. Mehta, MD, FCCP Septimiu D. Murgu, MD, FCCP Otis B. Rickman, DO, FCCP Sonali Sethi, MD, FCCP Carla Lamb, MD, FCCP |
| 9:00 AM – 9:50 AM | Workshop Rotation 1 | |
| | Group 1 – Radial EBUS | Colleen L. Channick, MD, FCCP |
| | Group 2 – BodyVision | Sonali Sethi, MD, FCCP |
| | Group 3 – Illumisite | Hiren J. Mehta, MD, FCCP |
| | Group 4 – ION | Zachary S. DePew, MD, FCCP Carla Lamb, MD, FCCP |
| | Group 5 – Monarch | Septimiu D. Murgu, MD, FCCP |
| | Group 6 – Galaxy | Sean P. Callahan, MD Colin T. Gillespie, MD |
| 9:50 AM – 10:05 AM | Break and Rotate Groups | |
| 10:05 AM – 10:55 AM | Workshop Rotation 2 | |
| | Group 6 – Radial EBUS | Colleen L. Channick, MD, FCCP |
| | Group 1 – BodyVision | Sonali Sethi, MD, FCCP |
| | Group 2 – Illumisite | Hiren J. Mehta, MD, FCCP |
| | Group 3 – ION | Zachary S. DePew, MD, FCCP Carla Lamb, MD, FCCP |
| | Group 4 – Monarch | Septimiu D. Murgu, MD, FCCP |
| | Group 5 – Galaxy | Sean P. Callahan, MD Colin T. Gillespie, MD |
| 10:55 AM – 11:00 AM | Rotate Groups | |
| 11:00 AM – 11:50 AM | Workshop Rotation 3 | |
| | Group 5 – Radial EBUS | Colleen L. Channick, MD, FCCP |
| | Group 6 – BodyVision | Sonali Sethi, MD, FCCP |
| | Group 1 – Illumisite | Hiren J. Mehta, MD, FCCP |
| | Group 2 – ION | Zachary S. DePew, MD, FCCP Carla Lamb, MD, FCCP |
| | Group 3 – Monarch | Septimiu D. Murgu, MD, FCCP |
| | Group 4 – Galaxy | Sean P. Callahan, MD Colin T. Gillespie, MD |
| 11:50 AM – 12:50 PM | Lunch | |

| | | |
|--------------------|--|--|
| 12:50 PM – 1:40 PM | Workshop Rotation 4 | |
| | Group 4 – Radial EBUS | Colleen L. Channick, MD, FCCP |
| | Group 5 – BodyVision | Sonali Sethi, MD, FCCP |
| | Group 6 – Illumisite | Hiren J. Mehta, MD, FCCP |
| | Group 1 – ION | Zachary S. DePew, MD, FCCP Carla Lamb, MD, FCCP |
| | Group 2 – Monarch | Septimiu D. Murgu, MD, FCCP |
| | Group 3 – Galaxy | Sean P. Callahan, MD Colin T. Gillespie, MD |
| 1:40 PM – 1:45 PM | Rotate Groups | |
| 1:45 PM – 2:35 PM | Workshop Rotation 5 | |
| | Group 3 – Radial EBUS | Colleen L. Channick, MD, FCCP |
| | Group 4 – BodyVision | Sonali Sethi, MD, FCCP |
| | Group 5 – Illumisite | Colleen L. Channick, MD, FCCP Hiren J. Mehta, MD, FCCP |
| | Group 6 – ION | Zachary S. DePew, MD, FCCP Carla Lamb, MD, FCCP |
| | Group 1 – Monarch | Septimiu D. Murgu, MD, FCCP |
| | Group 2 – Galaxy | Sean P. Callahan, MD Colin T. Gillespie, MD |
| 2:35 PM – 2:50 PM | Break and Rotate Groups | |
| 2:50 PM – 3:40 PM | Workshop Rotation 6 | |
| | Group 2 – Radial EBUS | Colleen L. Channick, MD, FCCP |
| | Group 3 – BodyVision | Sonali Sethi, MD, FCCP |
| | Group 4 – Illumisite | Hiren J. Mehta, MD, FCCP |
| | Group 5 – ION | Zachary S. DePew, MD, FCCP Carla Lamb, MD, FCCP |
| | Group 6 – Monarch | Septimiu D. Murgu, MD, FCCP |
| | Group 1 – Galaxy | Sean P. Callahan, MD Colin T. Gillespie, MD |
| 3:40 PM – 4:50 PM | Case-Based Discussion and Games | Sean P. Callahan, MD Colleen L. Channick, MD, FCCP Zachary S. DePew, MD, FCCP Laura K. Frye, MD Colin T. Gillespie, MD Hiren J. Mehta, MD, FCCP Septimiu D. Murgu, MD, FCCP Otis B. Rickman, DO, FCCP Sonali Sethi, MD, FCCP Carla Lamb, MD, FCCP |
| | | |
| 4:50 PM – 5:00 PM | Course Wrap-Up | Laura K. Frye, MD Otis B. Rickman, DO, FCCP |

Course Description

In the rapidly evolving field of bronchoscopy and lung nodule evaluation, this one-day post graduate course at the CHEST annual meeting is designed to equip practicing pulmonologists with essential skills for advanced diagnostic procedures. It covers various techniques such as robotic bronchoscopy, electromagnetic navigational bronchoscopy, radial probe endobronchial ultrasound (EBUS), and linear probe EBUS. The course emphasizes hands-on procedural training and a FLIPPED classroom approach, focusing on evaluating pulmonary nodules, lung cancer screening, diagnosis and staging. This course aims to bridge the gap in technological advancements for bronchoscopic biopsies of peripheral lung lesions.

Course Objectives

- By the end of this educational program, participants will be able to describe the key limitations of conventional and



guided bronchoscopy platforms for diagnosing peripheral lung nodules and understand the rationale behind the introduction of robot-assisted bronchoscopy and advanced navigation systems.

- Participants will acquire the practical skills necessary to operate robot-assisted bronchoscopy and utilize advanced navigation systems effectively for the diagnosis of peripheral lung nodules.
- Participants will gain a comprehensive understanding of best practices and guidelines for diagnosing and managing pulmonary nodules, integrating the latest advancements in bronchoscopy technology to optimize patient care.
- By the end of the program, participants will recognize the importance of continuous learning and professional development to stay up-to-date with evolving bronchoscopy techniques and their applications in clinical practice ultimately improving patient outcomes and safety.

Targeted Audience

Pulmonary Medicine, Critical Care Medicine, Thoracic Surgery, Primary Care/Family/Internal Medicine, Hospitalists, Emergency Medicine, Anesthesiology

Participation Feedback

The participation threshold of a score of 70% or more passing standard for this course, includes learner completion of the final self-assessment and learner completion of the CME credit evaluation, including the identification of what changes the learner expects to make in practice due to participation in this course."

Live Learning

The participation threshold of a score of 70% or more passing standard for this course, includes learner completion of the learner completion of the educational activity evaluation, including the identification of what changes the learner expects to make in practice due to participation in this course.

Maintenance of Licensure

Maintenance of Credit (MOC) offered in medical knowledge.

Scope of Practice – Pulmonary Medicine Education

Scope of Practice – Critical Care Education

FACULTY

Chair/Planner

Laura K. Frye, MD

Associate Professor of Medicine

University of Utah

Salt Lake City, UT

Otis B. Rickman, DO, FCCP

Professor of Medicine

University of Tennessee Health Science Center

Director, Interventional Pulmonology

Ascension Saint Thomas Chest & Lung Center

Nashville, TN

Faculty/Planners

Sean P. Callahan, MD

Assistant Professor of Medicine

Director, Interventional Pulmonology and Advanced Bronchoscopy

Division of Internal Medicine



Greenville, SC

Colleen L. Channick, MD, FCCP

Professor of Medicine
Co-Director, UCLA Interventional Pulmonology Program
David Geffen School of Medicine UCLA
Los Angeles, CA

Zachary S. DePew, MD, FCCP

Division Chief- Pulmonary, Critical Care, and Sleep Medicine
Director of Interventional Pulmonology
Associate Professor of Medicine
Creighton University
Omaha, NE

Colin T. Gillespie, MD

Professor of Medicine
Cleveland Clinic
Cleveland, OH

Carla Lamb, MD, FCCP

Director of Interventional Pulmonology
Lahey Hospital and Medical Center
Burlington, MA

Hiren J. Mehta, MD, FCCP

Professor of Medicine
Division of Pulmonary Medicine
University of Florida
Gainesville, FL

Septimiu D. Murgu, MD, FCCP

Professor of Medicine
Department of Medicine—Pulmonary and Critical Care
The University of Chicago
Chicago, IL

Sonali Sethi, MD, FCCP

Director, Diagnosis and Staging Program
Program Director, Interventional Pulmonology Fellowship
Cleveland Clinic
Cleveland, OH

DISCLOSURE OF FINANCIAL RELATIONSHIPS

The mission and vision of CHEST include our commitment to providing accurate, balanced, evidence-based information to health care professionals participating in this educational course. To guarantee our accredited continuing education is fair and balanced and that any clinical content presented supports safe, effective patient care, we require all planners, faculty, and others in control of educational content to complete and submit financial disclosures of all relationships with Accreditation Council for Continuing Medical Education-defined ineligible companies within the prior 24 months. We value the contributions of those who are committed and passionate about pulmonary medicine and want to be a part of our educational courses; however, it is our commitment to our learners to have continuing education free of commercial bias and marketing.



Identified conflicts of interest are reviewed by the educational course director/chair, the Accreditation Team, and/or the Professional Standards Committee to ensure conflicts are properly mitigated. CHEST educational standards pertaining to conflict of interest are intended to ensure the delivery of balanced, evidence-based, scientific presentations. Disclosure of any or no relevant financial relationships will be made available online in course materials and on-site during all educational courses.

The following faculty/planner members of this course have disclosed to CHEST that they have a relevant financial relationship with a commercial interest as it relates to the course:

| Name | Role | Disclosure |
|-----------------------------|---------|---|
| Otis B. Rickman, DO, FCCP | Chair | Consultant/Medtronic/Covidien, Consultant/Intuitive, Consultant/Noah Medical |
| Sean P. Callahan, MD | Faculty | Research Grant support/Biodesix, Research Grant support/Ethicon/Auris, Consultant/Ethicon/Auris, Consultant/NOAH Medical, Faculty Member/ACCP, Consultant/Ambu, Grant/Research Funding/Boehringer Ingelheim |
| Septimui D, Murgu, MD, FCCP | Faculty | Educational consultant/Olympus, Pinnacle Biologics |

The remaining faculty/planner members of this course who are not listed in the grid above have indicated to CHEST that they have no relevant financial relationships with any commercial interests.

Education Committee/Planners

Chair

Hans J. Lee, FCCP, MD

Consultant: Veracyte

Vice Chair

Mark Lavercombe, FCCP, MBBS

No relevant financial relationships.

CHEST CME Credit Staff Planners

The following CME Credit Staff Planners have no financial relationships to disclose:

Richard Schuch

Carolyn M. Jones

Aleda Ealom

Clay Hamlet

Joanna Neems, MEd

Alexandra Zurbuchen, MBA

DISCLOSURE OF COMMERCIAL SUPPORT (IF APPLICABLE)

We gratefully acknowledge the following for their financial support of (NAME OF COURSE):

List all financial supporters here.

We gratefully acknowledge the following for their in-kind support of (NAME OF COURSE):

| Company | Support |
|---------|---------|
| | |



CME/CE CREDIT INFORMATION

CME/CE Credit Claim Instructions

Advanced Robotic and Navigational Bronchoscopy

To complete the Education Course Evaluation for **Advanced Robotic and Navigational Bronchoscopy**, claim CME/CE credits, and download CME/CE certificates and certificates of attendance (COA), please see the instructions below. **You must complete your evaluation and download your certificate prior to the product expiration date.**

1. Sign in and navigate to your “My Learning” account at education.chestnet.org.
2. Find the course or event in your list and complete all required post-course work.
3. Claim credits when prompted.

Your certificate and transcript can be viewed at any time under Claimed Courses on the [Manage CME](#) page.

If you are claiming MOC points, please make sure that your full name, date of birth, and American Board of Internal Medicine (ABIM) number listed in your CHEST account match what is listed in your ABIM account. To prevent delays in receiving MOC points, please check that your ABIM account is current.

If you need help, contact the CHEST Accreditation Team at cme@chestnet.org. For faster assistance, outline the specific problem you are having, and provide your CHEST ID and contact information.

**YOU MUST COMPLETE THE POST-COURSE ASSESSMENT AND EDUCATION COURSE EVALUATION
PRIOR TO THE PRODUCT EXPIRATION DATE APRIL 8, 2025**

Physician Credit

The American College of Chest Physicians is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

The American College of Chest Physicians designates this live activity for a maximum of **7.50 AMA PRA Category 1 Credit™**. Physicians should claim only the credit commensurate with the extent of their participation in the course.

Nursing Credit

The American College of Chest Physicians is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians. The American College of Chest Physicians designates this live activity activity for a maximum of **7.50 AMA PRA Category 1 Credits™**.

One *AMA PRA Category 1 Credit™* is equal to one contact hour for the following professional certification organization:

- American Nurses Association (ANCC)
- American Association of Nurse Practitioners (AANP)

For registered nurses, please check your state licensing board for CME equivalency.

Nurse Practitioners

The American College of Chest Physicians is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians. The American College of Chest Physicians designates this live activity for a maximum of **7.50 AMA PRA Category 1 Credits™**.

One *AMA PRA Category 1 Credit™* is equal to one contact hour for the following professional certification organization:



- The American Academy of Nurse Practitioners Certification Board (AANPCB)

Physician Assistants

The American College of Chest Physicians is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians. The American College of Chest Physicians designates this live activity for a maximum of **7.50 AMA PRA Category 1 Credits™**.

One *AMA PRA Category 1 Credit™* is equal to one contact hour for the following professional certification organizations:

- American Academy of Physical Associates (AAPA)
- The National Commission on Certification of Physician Assistants (NCCPA)

COA

The American College of Chest Physicians confirms that the individual named below has participated in this educational activity.

The American College of Chest Physicians designates this live activity for a maximum of **7.50 AMA PRA Category 1 Credits™**. Participants should claim only the credit commensurate with the extent of their participation in the activity.

Maintenance of Certification Statement

Successful completion of this CME credit course enables the participant to earn up to **7.50 MOC Part 2 Medical Knowledge** points in the American Board of Internal Medicine's (ABIM) Maintenance of Certification (MOC) program. Participants will earn MOC points equivalent to the amount of CME credits claimed for the course. It is the CME credit course provider's responsibility to submit participant completion information to ACCME for the purpose of granting ABIM MOC points.

Upon successful completion of this course, CHEST will submit your completion data to ABIM via ACCME's Program and Course Reporting System (PARS) for MOC points. To prevent delay in receiving your ABIM points, please make sure that your ABIM number, birth date, and full name in your CHEST account match your ABIM account. Please also make sure that your ABIM account is current. After claiming CME credits, please allow 3 to 5 business days after claiming for credits to show in your ABIM record.

DISCLAIMER

The American College of Chest Physicians ("CHEST") and its officers, regents, executive committee members, members, related entities, employees, representatives, and other agents (collectively, "CHEST Parties") are not responsible in any capacity for, do not warrant, and expressly disclaim all liability for, any content whatsoever in any CHEST publication or other product (in any medium) and the use or reliance on any such content, all such responsibility being solely that of the authors or the advertisers, as the case may be. By way of example, without limiting the foregoing, this disclaimer of liability applies to the accuracy, completeness, effectiveness, quality, appearance, ideas, or products, as the case may be, of or resulting from any statements, references, articles, positions, claimed diagnosis, claimed possible treatments, services, or advertising, express or implied, contained in any CHEST publication or other product. Furthermore, the content should not be considered medical advice and is not intended to replace consultation with a qualified medical professional. Under no circumstances, including negligence, shall any of CHEST Parties be liable for any DIRECT, INDIRECT, INCIDENTAL, SPECIAL or CONSEQUENTIAL DAMAGES, or LOST PROFITS that result from any of the foregoing, regardless of legal theory and whether or not claimant was advised of the possibility of such damages.

Copyright © 2024 by the American College of Chest Physicians.

Copyright not claimed on material authorized by the US Government.

All rights reserved. No part of this publication may be reproduced in any manner without permission of the publisher.



American College of Chest Physicians
2595 Patriot Boulevard
Glenview, IL 60026
Telephone: +1 (224) 521-9800; Fax: +1 (224) 521-9801
chestnet.org