



Advanced Skills in Ultrasound-Guided Pleural Procedures: Hands-On Cadaver-Based Masterclass

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

Start Date: October 18, 2025

End Date: October 18, 2025



Title: Advanced Skills in Ultrasound-Guided Pleural Procedures: Hands-On Cadaver-Based Masterclass

Co-Chair(s): John Mullon MD, FCCP, Nicholas J. Pastis, MD, FCCP

Date: October 18, 2025

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

Course Description

Pneumothorax and pleural effusions are common and critical conditions for pulmonary and critical care providers. Effective management requires proficiency in chest tube and tunneled pleural catheter placement. Cadaveric models provide an unparalleled opportunity to replicate authentic pleural pathologies, allowing learners to explore thoracic anatomy, enhance ultrasound interpretation, and experience realistic procedural feedback. This hands-on masterclass, led by expert faculty, offers small group instruction to teach step-by-step placement and management techniques. Participants will gain confidence in performing ultrasound-guided chest tube and tunneled catheter insertions while understanding their roles in managing pleural diseases, including malignant pleural effusions and pneumothorax.

Course Objectives

- By the end of the session, participants will be able to confidently demonstrate the placement of guidewire-based chest tubes for pneumothorax in a cadaveric model using ultrasound guidance, with accurate positioning confirmed by expert faculty
- By the end of the session, participants will be able to demonstrate the placement of tunneled indwelling pleural catheters in a cadaveric model of pleural effusion using ultrasound guidance, ensuring proper technique and positioning through faculty feedback
- By the end of the session, participants will understand the role of tunneled indwelling pleural catheters in the management of malignant pleural effusions, and will be able to explain this role in case-based discussions with their peers and faculty
- By the end of the session, participants will be able to discuss the role of guidewire-based chest tubes in the management of pneumothorax and pleural effusions, highlighting evidence-based indications, and identifying potential complications through interactive scenarios.

Targeted Audience

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

Faculty/Planners

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
Nicholas J. Pastis, MD, FCCP	Chair	Olympus, COOK Medical, Phillips Respironics
Ellen Volker, MD, FCCP	Faculty	Intuitive Surgical, Medtronic
Roberto Casal, MD, FCCP	Faculty	Intuitive Surgical, Johnson and Johnson, Siemens
Ajay A. Wagh, MD, FCCP	Faculty	Biodesix, Noah Medical, Ambu, COOK Medical

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 (Please describe what each company provided.)

CME/CE CREDIT INFORMATION

CME/CE Credit Claim Instructions

Advanced Skills in Ultrasound-Guided Pleural Procedures: Hands-On Cadaver-Based Masterclass

To complete the Education Course Evaluation for **Advanced Skills in Ultrasound-Guided Pleural Procedures: Hands-On Cadaver-Based Masterclass**, 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.



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