



CHEST 2025 Pulmonary and Critical Care Medicine Fellows Course

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Publication date: October 18, 2025

Product expiration date: October 17, 2026

Title: 2025 Pulmonary and Critical Care Medicine Fellows Course

Chair: Megan Conroy, MD, MEd, FCCP



Co-Chair(s): Navitha Ramesh, MD, MBBS, FCCP

Date: Saturday, October 18, 2024

Location: McCormick Place, Lakeside Center, Level 2 / Simulation Center, Hall E

Schedule:

6:15 am – 7:15 am: Breakfast

7:30 am – 7:50 am: Welcome/Introduction

8:00 am – 12:00 pm: Rotations (5 stations - 50 minutes each)

12:05 – 1:10 pm: Lunch

1:10 pm – 4:15 pm: Rotations (5 stations – 50 minutes each)

Agenda:

Time	Presentation	Faculty	Room #
6:15 AM - 7:15 AM	Breakfast Symposium: PH-ILD: A Case-Based Discussion of Clinical Approach, Diagnosis, and Treatment This non-CME event is supported by United Therapeutics	Victor Test, MD, FCCP Deborah Jo Levine, MD, MS, FCCP Sarah Khan, MD	271B
7:30 AM - 7:50 AM	Welcome & Introduction	Megan Conroy, MD, MEd, FCCP Navitha Ramesh, MD, FCCP	253AB
7:50 AM - 8:00 AM	MOVE TIME	10 mins	
8:00 AM – 8:50 AM	Treatment of Hypercapnic Respiratory Failure (Red)	Megan Conroy, MD, MEd, FCCP Carla Copeland, MD Shirine Allam, MD, FCCP Michelle Cao, MD, FCCP Justin Fiala, MD Meredith Greer, MD Alejandra Lastra, MD, FCCP Ashima Sahni, MD, FCCP Bernardo Selim, MD, FCCP Ben Lipanot, MD	253CD
8:00 AM – 8:50 AM	Advanced Critical Care Echocardiography (Yellow)	Amik Sohdi, MBBS, FCCP Jessie Harvey, MD, FCCP Carlos Rabascall Ayoub, MD Gisela Banauch, MD, MS, FCCP Keith Guevarra, DO, FCCP Edwin Jackson Dae Hyeon Kim, MD Jeffrey Kott Taro Minami, MD, FCCP Andrew Weber, MD, FCCP	SIM Center
8:00 AM – 8:50 AM	Pulmonary Artery Catheter Waveforms and Interpretation (Blue)	Katie Fitton, DO Talal Dahhan, MD, FCCP Jean Elwing, MD, FCCP Raymond Foley, MD	252D

		John Kingrey, MD Parth Rali, MD, FCCP Nicole Ruopp Victor Test, MD, FCCP	
8:00 AM – 8:50 AM	Advanced Airway Rescue (Black)	Meghan Ramsey, MD Alex Garbarino, MD David Bell, MD, FCCP <u>Neala Cline, ACNP, RN-</u> Tom Fuhrman, MD, MS, FCCP Kari Jackson, MD Karol Kremens, MD, FCCP David Murphy Billie Paschal, BA Richard Silvia Troy Wilson, AAS	SIM Center
8:00 AM – 8:50 AM	Mechanical Ventilation: Ventilator Dysynchrony (Pink)	Navitha Ramesh, MD, MBBS, FCCP Kristina Montemayor, MD Megan Carreon, RRT, MHA John Davies, RRT, MA, FCCP <u>Neil MacIntyre, MD, Master FCCP</u> Sara Mirza, MD Brady Scott, PhD, RRT, FCCP Briana Short, MD Jesse Tucker, MD, MPH, FCCP Natalie Yip, MD, FCCP	SIM Center
8:00 AM – 8:50 AM	Extracorporeal Support for Respiratory Failure (Orange)	Radu Postelnicu, MD Bindu Akkanti, MD, FCCP Vaidehi Kaza, MD Sravanthi Nandavaram, MD, FCCP Erik Osborn, MD Craig Rackley, MD, FCCP Nick Villalobos, MD	SIM Center
8:00 AM – 8:50 AM	Bronchoscopic Control of Bleeding (Green)	Sujith Cherian, MBBS, FCCP Leah Cohen, MD Abdul Hamid Alraiyes, MD, FCCP Christine Argento, MD, FCCP Jonathan Kurman, MD, MBA, FCCP Darlene Nelson, MD, FCCP Ashutosh Sachdeva, MBBS, FCCP	SIM Center
8:50 AM - 9:00 AM	MOVE TIME	10 mins	
9:00 AM – 9:50 AM	Treatment of Hypercapnic Respiratory Failure (Green)	Megan Conroy, MD, MEd, FCCP Carla Copeland, MD Shirine Allam, MD, FCCP Michelle Cao, MD, FCCP Justin Fiala, MD Meredith Greer, MD Alejandra Lastra, MD, FCCP Ashima Sahni, MD, FCCP Bernardo Selim, MD, FCCP Ben Lipanot, MD	253CD

9:00 AM – 9:50 AM	Advanced Critical Care Echocardiography (Red)	Amik Sohdi, MBBS, FCCP Jessie Harvey, MD, FCCP Carlos Rabascall Ayoub, MD Gisela Banauch, MD, MS, FCCP Keith Guevarra, DO, FCCP Edwin Jackson Dae Hyeon Kim, MD Jeffrey Kott Taro Minami, MD, FCCP Andrew Weber, MD, FCCP	SIM Center
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9:00 AM – 9:50 AM	Mechanical Ventilation: Ventilator Dyssynchrony (Black)	Navitha Ramesh, MD, MBBS, FCCP Kristina Montemayor, MD Megan Carreon, RRT, MHA John Davies, RRT, MA, FCCP Neil MacIntyre, MD, Master FCCP Sara Mirza, MD Brady Scott, PhD, RRT, FCCP Briana Short, MD Jesse Tucker, MD, MPH, FCCP Natalie Yip, MD	SIM Center
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		Jonathan Kurman, MD, MBA, FCCP Darlene Nelson, MD, FCCP Ashutosh Sachdeva, MBBS, FCCP	
9:50 AM -10:15 AM	Break	25 mins	
10:15 AM – 11:05 AM	Treatment of Hypercapnic Respiratory Failure (Orange)	Megan Conroy, MD, MEd, FCCP Carla Copeland, MD Shirine Allam, MD, FCCP Michelle Cao, MD, FCCP Justin Fiala, MD Meredith Greer, MD Alejandra Lastra, MD, FCCP Ashima Sahni, MD, FCCP Bernardo Selim, MD, FCCP Ben Lipanot, MD	253CD
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		Briana Short, MD Jesse Tucker, MD, MPH, FCCP Natalie Yip, MD, FCCP	
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11:05 AM – 11:15 AM	MOVE TIME	10 mins	
11:15 AM – 12:05 PM	Treatment of Hypercapnic Respiratory Failure (Pink)	Megan Conroy, MD, MEd, FCCP Carla Copeland, MD Shirine Allam, MD, FCCP Michelle Cao, MD, FCCP Justin Fiala, MD Meredith Greer, MD Alejandra Lastra, MD, FCCP Ashima Sahni, MD, FCCP Bernardo Selim, MD, FCCP Ben Lipanot, MD	253CD
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12:05 PM - 1:10 PM	Lunch	65 mins	
1:10 PM - 2:00 PM	Treatment of Hypercapnic Respiratory Failure (Black)	Megan Conroy, MD, MEd, FCCP Carla Copeland, MD Shirine Allam, MD, FCCP Michelle Cao, MD, FCCP Justin Fiala, MD Meredith Greer, MD Alejandra Lastra, MD, FCCP Ashima Sahni, MD, FCCP Bernardo Selim, MD, FCCP Ben Lipanot, MD	253CD
1:10 PM - 2:00 PM	Advanced Critical Care Echocardiography (Pink)	Amik Sohdi, MBBS, FCCP Jessie Harvey, MD, FCCP Carlos Rabascall Ayoub, MD Gisela Banauch, MD, MS, FCCP Keith Guevarra, DO, FCCP Edwin Jackson Dae Hyeon Kim, MD Jeffrey Kott	SIM Center

		Taro Minami, MD, FCCP Andrew Weber, MD, FCCP	
1:10 PM – 2:00 PM	Pulmonary Artery Catheter Waveforms and Interpretation (Orange)	Katie Fitton, DO Talal Dahhan, MD, FCCP Jean Elwing, MD, FCCP Raymond Foley, MD John Kingrey, MD Parth Rali, MD, FCCP Nicole Ruopp Victor Test, MD, FCCP	252D
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2:00 PM – 2:10 PM	MOVE TIME	10 mins	
2:10 PM – 3:00 PM	Treatment of Hypercapnic Respiratory Failure (Blue)	Megan Conroy, MD, MEd, FCCP Carla Copeland, MD Shirine Allam, MD, FCCP Michelle Cao, MD, FCCP	253CD

		Justin Fiala, MD Meredith Greer, MD Alejandra Lastra, MD, FCCP Ashima Sahni, MD, FCCP Bernardo Selim, MD, FCCP Ben Lipanot, MD	
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3:00 PM - 3:25 PM	Break	25 Mins	
3:25 PM - 4:15 PM	Treatment of Hypercapnic Respiratory Failure (Yellow)	Megan Conroy, MD, MEd, FCCP Carla Copeland, MD Shirine Allam, MD, FCCP Michelle Cao, MD, FCCP Justin Fiala, MD Meredith Greer, MD Alejandra Lastra, MD, FCCP Ashima Sahni, MD, FCCP Bernardo Selim, MD, FCCP Ben Lipanot, MD	253CD
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		Troy Wilson, AAS	
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Course Description

This full-day course is filled with an interactive, lecture-free, educational experience that teaches evidence-based medicine in a way that is fun, easy to remember, and directly applicable to patients. Topics covered have been chosen based on needs assessment surveys of focus groups of Program Directors and fellows, and cover content areas that fellows are often unable to master otherwise, including:

- Advanced Airway Rescue
- Advanced Critical Care Echocardiography
- Bronchoscopic Control of Bleeding
- Extracorporeal Support for Respiratory Failure



- Mechanical Ventilation: Ventilator Dyssynchrony
- Pulmonary Artery Catheter Waveforms and Interpretation
- Treatment of Hypercapnic Respiratory Failure

Course Objectives

By the end of this course,

1. Learners should be able to demonstrate gain of new knowledge that fills previously identified gaps in pulmonary and critical care fellowship training.
2. Learners should be able to demonstrate newly acquired procedural skills in multiple content areas spanning the breath of pulmonary and critical care training.

Participation Feedback

The participation threshold or passing standard for this activity includes learner completion of the final self-assessment and learner completion of the CME evaluation including the identification of what changes the learner expects to make in practice due to participation of this activity.

Maintenance of Licensure

Maintenance of Credit (MOC) offered in medical knowledge.

FACULTY

Co-Chairs/Planners

Megan Conroy, MD, MEd, FCCP

Clinical Assistant Professor of Internal Medicine
The Ohio State University, Wexner Medical Center
Columbus, OH

Navitha Ramesh, MD, MBBS, FCCP

ICU Medical Director
University of Pittsburgh Medical Center
Harrisburg, PA

Faculty/Planners

Bindu Akkanti, MD, FCCP
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Associate Professor
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A Christine Argento, MD, FCCP
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Gisela Banauch, MD, MS, FCCP
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David Bell, MD, FCCP
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San Antonio, TX

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Megan Carreon, RRT, MHA
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Subani Chandra, MD, FCCP
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Neala Cline, ACNP, RN
Cardiac Clinical Educator
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Leah A. Cohen, MD
Associate Professor
UT Southwestern



Dallas, TX

Carla Copeland, MD
Assistant Professor
University of Alabama at Birmingham
Birmingham, AL

Talal Dahnan, MD, FCCP
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Assistant Professor of Pulmonary, Critical Care, and Sleep Medicine
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Katie Fitton, DO, FCCP
Pulmonologist
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Raymond Foley, DO, FCCP
Professor of Medicine
Director, Pulmonary/Critical Care Fellowship Program
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Farmington, CT

Laura Frye, MD
Interventional Pulmonologists



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Detroit, MI

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Jackson, MS

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Karen "Kari" Jackson, MD
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Vaidehi Kaza, MD
Medical Director
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John Kingrey, MD
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Oklahoma City, OK

Jeffrey Kott, MD
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Karol Kremens, MD, FCCP
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Fargo, ND

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Alejandra Lastra, MD, FCCP
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Director of Sleep Medicine Fellowship Program
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Chicago, IL

Benjamin Lipanot, MD
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Associate Professor of Internal Medicine
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Ann Arbor, MI

Kristina Montemayor, MD, MHS
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Johns Hopkins Medicine
Baltimore, MD

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Darlene Nelson, MD, FCCP
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Rochester, MN

Erik Osborn, MD
ECMO Medical Director
Mary Washington Healthcare
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Carlos Rabascall Ayoub, MD
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Kansas City, KS

Craig Rackley, MD, FCCP
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Durham, NC

Parth Rali, MD, FCCP
Associate Professor, Thoracic Medicine and Surgery
Temple University Health
Philadelphia, PA

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ICU Medical Director
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Harrisburg, PA



Meghan Ramsey, MD
Clinical Associate Professor
Stanford Medicine Health Care
Stanford, CA

Nicole Ruopp, MD
Assistant Professor
Tufts University School of Medicine
Boston, MA

Ashutosh Sachdeva, MBBS, MBA, FCCP
Associate Professor of Medicine
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Baltimore, MD

Ashima Sahni, MD, FCCP
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Audra Schwalk, MD, MBA
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Dallas, TX

Bernardo Selim, MD, FCCP
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Mayo Clinic
Rochester, MN

Briana Short, MD
Assistant Professor of Medicine
Columbia University Irving Medical Center, New York Presbyterian Hospital
New York, NY

Amik Sodhi, MBBS, FCCP
Associate Professor
University of Wisconsin
Madison, WI

Victor Test, MD, FCCP
Division Chief, Pulmonary Critical Care
Texas Tech Physicians
Lubbock, TX

Jesse Tucker, MD, MPH
CHI Memorial Lung Care Associates
Chattanooga, TN

Nick Villalobos, MD
Assistant Professor of Medicine USU



Brooke Army Medical Center
San Antonio, TX

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Assistant Medical Director, Critical Care
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Hempstead, NY

Tyler Weiss, RRT-ACCS, MSc, FCCP
Assistant Professor
Rush University
Chicago, IL

Troy Wilson, AAS
Andersen Simulation Center, Madigan Army Medical Center
Joint Base Lewis McChord, WA

Natalie Yip, MD, FCCP
Associate Professor
Columbia University
New York, NY

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

Name	Role	Disclosure
Singh, Jaspal (MD, FCCP)	Faculty/Planner	Advisory Committee Member relationship with Somnoware Sleep Solutions;

		Speaker/Speaker's Bureau relationship with Astra Zeneca Pharmaceuticals; Speaker/Speaker's Bureau relationship with Intuitive Surgical;
Akkanti, Bindu (MD, FCCP)	Faculty/Planner	Speaker/Speaker's Bureau relationship with Jansen; Speaker/Speaker's Bureau relationship with Abiomed, Along Research Grant
Alraiyes, Abdul (MD, FCCP)	Faculty/Planner	Consultant, Intuitive
Argento, A. Christine (MD, FCCP)	Faculty/Planner	Consultant/Biodesix, Cook Medical, Intuitive, Pulmonx, Boston Scientific, Olympus, BD, AstraZeneca
Davies, John (RRT, MA, FCCP)	Faculty/Planner	Consultant relationship with Teleflex Medical; Speaker/Speaker's Bureau relationship with MedBridge Education
Elwing, Jean (MD, FCCP)	Faculty/Planner	Advisory Committee Member relationship with United Therapeutics; Advisory Committee Member relationship with Liquida, Acceleron/Merck; Advisor / Grant Reviewer relationship with Bayer; NonCME Speaker) relationship with United Therapeutics; Advisory Committee Member relationship with Altavant, Aerovate, Gossamer Bio, Janssen , Insmed; Advisory Committee Member relationship with United Therapeutics; Advisory Committee Member relationship with Altavant, Aerovate, Bayer, Gossamer Bio, Liquida, Acceleron/Merck, Janssen, Insmed
Kingrey, John (MD)	Faculty/Planner	Speaker/Speaker's Bureau relationship with United Therapeutics; Speaker/Speaker's Bureau relationship with Actelion J&J; Speaker/Speaker's Bureau relationship with Bayer Pharmaceuticals
MacIntyre, Neil (MD, FCCP)	Faculty/Planner	Consultant relationship with Hillrom; Consultant relationship with Inogen; Advisory Committee Member relationship with Phillips; Consultant relationship with Inspirix Pharmaceuticals
Minami, Taro (MD, FCCP)	Faculty/Planner	Consultant relationship with FUJIFILM. (Funded by Japan International Cooperation Agency.) Consultant relationship with AA Health Dynamics. Consultant relationship with FUJIFILM (Funded by the Ministry of Economy, Trade, and Industry, Japan)
Rackley, Craig (MD, FCCP)	Faculty/Planner	Consultant relationship with Inspira; Consultant relationship with Roche

Schwalk, Audra (MD, MBA)	Faculty/Planner	Consultant relationship with Ambu; Advisory Committee Member relationship with Ambu
Scott, Brady (PhD, RRT, FCCP)	Faculty/Planner	Research Funding relationship with American Association for Respiratory Care; Speaker/Speaker's Bureau relationship with Aerogen; Research Funding relationship with Teleflex; Speaker/Speaker's Bureau relationship with Medline Industries
Sood, Namita (MBBCh, FCCP)	Faculty/Planner	Consultant relationship with united Therapeutics; Consultant relationship with Liquidia; Speaker/Speaker's Bureau relationship with Bayer; Consultant relationship with Merck; Speaker/Speaker's Bureau relationship with Boeinger Ingelheim
Weiss, Tyler (RRT-ACCS, MSc, FCCP)	Faculty/Planner	Consultant relationship with National Board for Respiratory Care; 2021-present; Speaker/Speaker's Bureau relationship with Fisher and Paykel; 2020-present

The following faculty/planner members of this activity have indicated to CHEST that they have no relevant financial relationships with any commercial interests:

Name	Role	Disclosure
Allam, J. Shirine (MD, FCCP)	Faculty/Planner	No financial relationships to disclose
Auger, William (MD, FCCP)	Faculty/Planner	No financial relationships to disclose
Banuach, Gisela (MD, FCCP)	Faculty/Planner	No financial relationships to disclose.
Bell, David (MD, FCCP)	Faculty/Planner	No financial relationships to disclose
Cao, Michelle (DO, FCCP)	Faculty/Planner	No financial relationships to disclose.
Carreon, Megan (RRT, MHA)	Faculty/Planner	No financial relationships to disclose
Chae, June (MD)	Faculty/Planner	No financial relationships to disclose
Chandra, Subani (MD, FCCP)	Faculty/Planner	No financial relationships to disclose
Cherian, Sujith (MD, MBBS, FCCP)	Faculty/Planner	No financial relationships to

		disclose
Cline, Neala (RN)	Faculty/Planner	No financial relationships to disclose
Cohen, Leah (MD, FCCP)	Faculty/Planner	No financial relationships to disclose.
Conroy, Megan (MD, MEd, FCCP)	Co-Chair/Planner	No financial relationships to disclose
Copeland, Carla (MD)	Faculty/Planner	No financial relationships to disclose.
Dahhan, Talal (MD, FACP MEd, MHA FCCP)	Faculty/Planner	No financial relationships to disclose
DePew, Zachary (MD, FCCP)	Faculty/Planner	No financial relationships to disclose
Dexter, Amanda (RCP, MSc, RRT,FCCP)	Faculty/Planner	No financial relationships to disclose.
Doerschug, Kevin (MD, MS, FCCP)	Faculty/Planner	No financial relationships to disclose
Doyle, Stephen (DO, MBA, FCCP)	Faculty/Planner	No financial relationships to disclose.
Fiala, Justin (MD)	Faculty/Planner	No financial relationships to disclose.
Fitton, Katie (DO, FCCP)	Faculty/Planner	No financial relationships to disclose.
Foley, Raymond (DO, FCCP)	Faculty/Planner	No financial relationships to disclose
Fuhrman, Thomas (MD, MS, FCCP)	Faculty/Planner	No financial relationships to disclose
Gaillard, John (MD, FCCP)	Faculty/Planner	No financial relationships to disclose
Garbarino, Alex (MD)	Faculty/Planner	No financial relationships to disclose.
Greer, Meredith (MD, FCCP)	Faculty/Planner	No financial relationships to disclose.
Guervarra, Keith (DO, FCCP)	Faculty/Planner	No financial relationships to disclose.
Harvey, Jessie (MD)	Faculty/Planner	No financial relationships to disclose.
Jackson, Edwin J. (DO, FCCP)	Faculty/Planner	No financial relationships to disclose.
Jackson, Karen (MD)	Faculty/Planner	No financial relationships to disclose.
Kremens, Karol (MD, FCCP)	Faculty/Planner	No financial relationships to disclose
Kurman, Jonathan (MBA, MD, FCCP)	Faculty/Planner	No financial relationships to disclose.
Lastra, Alejandra (MD, FCCP)	Faculty/Planner	No financial relationships to disclose.
Levine, Deborah Jo (MD, FCCP)	Faculty/Planner	No financial relationships to disclose.

Lipanot, Benjamin (MD)	Faculty/Planner	No financial relationships to disclose.
MacIntyre, Neil (MD, Master FCCP)	Faculty/Planner	No financial relationships to disclose.
Mirza, Sara (MD, FCCP)	Faculty/Planner	No financial relationships to disclose
Montemayor, Kristina (MD)	Faculty/Planner	No financial relationships to disclose
Nelson, Darlene (MD, FCCP)	Faculty/Planner	No financial relationships to disclose
Osborn, Erik (MD)	Faculty/Planner	No financial relationships to disclose
Paulson, Cheryl (RRT, MEd)	Faculty/Planner	No financial relationships to disclose
Ramesh, Navitha (MD, MBBS, FCCP)	Faculty/Planner	No financial relationships to disclose
Ramsey, Meghan (MD)	Faculty/Planner	No financial relationships to disclose
Ridgeway, Roy	Faculty/Planner	No financial relationships to disclose
Short, Briana (MD)	Faculty/Planner	No financial relationships to disclose
Sodhi, Amik (MBBS, FCCP)	Faculty/Planner	No financial relationships to disclose
Test, Victor (MD, FCCP)	Faculty/Planner	No financial relationships to disclose
Tucker, Jesse (MD, MPH)	Faculty/Planner	No financial relationships to disclose
Turetz, Meredith (MD)	Co-Chair/Planner	No financial relationships to disclose
Wilson, Troy (AAS)	Faculty/Planner	No financial relationships to disclose
Yip, Natalie (MD, FCCP)	Faculty/Planner	No financial relationships to disclose

Disclosure Details

This activity is supported in part by educational grants from the following companies:

- Inari, now part of Stryker
- United Therapeutics
- Merck Sharp & Dohme LLC
- Penumbra, Inc.

The activity is also supported in part by equipment needs from the following companies:

- Vendor: Verathon Medical; Product: GlideScope Core Video Monitor; Qty: 2 (Verathon)

- Vendor: Verathon Medical; Product: B-Flex Scopes, Size 5.0; Qty: 20 (Verathon)
- Vendor: Karl Storz; Product: Disposable Flexible Intubation Video Endoscope (FIVE) Set, 4.0 x 65cm, PN: 11302 BDXX; Qty: 2 (5/box) (Karl Storz)
- Vendor: Karl Storz; Product: Disposable Flexible Intubation Video Endoscope (FIVE) Set, 5.5 x 65cm, PN: 11301 BNXX; Qty: 2 (5/box) (Karl Storz)
- Vendor: Hill-Rom; Product: Hospital Bed with removable headboard with no driving mechanism at head of bed; Qty: 1 (Hill-Rom)
- Vendor: Curtis Life Research
 - Cann Man; Qty: 2
 - Cannulation Ready
 - Extra tubing and supplies to have 25-30 learners cannulate the manikins
 - Onsite Technical Support; Qty: 1
- Vendor: Medtronic
 - ESImPro Cannulation Manikin; Qty: 2
 - Cannulation Ready
 - Double Lumen Cannula Crescent
 - 30F; Qty: 3
 - 32F; Qty: 3
 - Cannula Insertion Set; Qty: 6
 - Arterial Cannula, Size: 15 FR AND 17 FR; Qty: 4 each
 - Arterial Cannula, Size: 15 FR AND 17 FR; Qty: 4 each
 - Multi-Stage Venous Cannula, Size: 25 FR; Qty: 6
 - Nautilus Adult Oxygenator; Qty: 2
 - Circuit Tubing; Qty: 6
 - Cannulation Kits; Qty: 3
- Vendor: Fujifilm; Product:
 - Bronchoscopy towers; Qty: 8 (2/station) (FujiFilm) (could also use single-use ones such as AMBU, Olympus, Boston Scientific, Glide Scope)
- Vendor: FujiFilm;
 - Adult Bronchoscopes; Qty: 8 (1/station)
- Vendor: FujiFilm;
 - Pediatric Bronchoscopes; Qty: 8 (1/station)
- Vendor: Cook Medical;
 - Product: Arndt Bronchial Blockers; Qty: 16 (4/station)-
- Vendor: Abiomed (Johnson & Johnson)
 - Impella CP Pump; Qty: 2
 - Console; Qty: 1
 - Impella 5.5 Pump with waterbath and Console; Qty: 2
 - Waterbath; Qty: 1
 - Console; Qty: 1
 - Onsite Technical Support; Qty: 1
 - Assistance with equipment setup and breakdown
- Vendor: Abbott
 - CentriMag Pump; Qty: 2
 - AMG Oxygenator and Holders; Qty: 2
 - Cannula for Central Cannulation; Qty: 4

- Circuit Tubing; Qty: 2
- Adaptors to Connect in Oxygenator for CentriMag Circuit; Qty: 2
- Perclose ProGlide Vascular Closure System; Qty: 5
- Arterial cannula; Qty: 5
- Venous cannula; Qty: 5
- Cannula insertion set Dilator kit; Qty: 5
- Cannulation wires; Qty: 5
- Onsite Technical Support; Qty: 1
- Vendor: Getinge Group (Maquet)
 - CARDIOHELP System; Qty: 4
 - CARDIOHELP Circuits and Accessories; Qty: 4
 - Sprinter Cart XL, PN: 7015.4184; Qty: 1
 - Top Shelf for CARDIOHELP, PN: 70105.3386; Qty: 1
 - Infusion Pole (height adjustable), PN: 70103.3599; Qty: 1
 - Gas Bottle Holder, PN: 70104.0809; Qty: 1
 - 27F Double Lumen Cannula (DLC); Qty: 5
 - 31F Double Lumen Cannula (DLC); Qty: 5
 - Long and Short Fem V Cannula; Qty: 5
 - Long and Short Fem IJ A Cannula; Qty: 5
 - Cannula Insertion Set for 27F DLC; Qty: 5
 - Cannula Insertion Set for 31F DLC; Qty: 5
 - Cannula Insertion Set for Single Lumen Cannula; Qty: 5
 - HLS Set Advanced; Qty: 5
 - ROTAFLOW Centrifugal Pump; Qty: 2
 - ROTAFLOW Console; Qty: 1
 - ROTAFLOW Circuit Tubing; Qty: 4
 - QUADROX-I Adult and Small Adult Oxygenator; Qty: 2
 - Intraaortic Balloon Pump IABP: pump itself x2, console x1
 - Additional training tubing (to augment HLS Set advanced and help with circuit changes)
- Vendor: LivaNova
 - Cannula for Atrial Septostomy and LV Venting; Qty: 4
 - Cannula Insertion Set; Qty: 4
 - Cannula for Atrial Septostomy and LV Venting; Qty: 4
 - Cannula for Atrial Septostomy; Qty: 4
 - ProtectDuo; Qty: 4
- Vendor: Merit Medical
 - Vascular Mini Access Kit, PN: MAK501(Alex reaching out to rep for correct PN); Qty: 10
 - 5F Co-Axial Introducer 10cm
 - 40cm Stainless Steel Guide Wire
 - 21G x 7cm Introducer Needle
- Vendor: Terumo Medical Corporation
 - Pinnacle Introducer Sheath, 6F 10cm, PN: RSS601; Qty: 5
- Ventilators -Hamilton C6 or Nihon

- NKV-330 Ventilator System; Qty: 2
- NK-550 Ventilator System; Qty: 4
- Onsite Technical Support; Qty: 1
- Assistance with equipment setup and breakdown and troubleshooting of equipment during course
- Onsite Technical Support (equipment setup/breakdown and assistance during course); Qty: 1/vendor (Nihon Khoden, Hamilton Medical)
- Hamilton C1; Qty: 1
- Hamilton C6; Qty: 2
- Breathing Circuit Set, REF #: 260128; Qty: 20
- Expiratory Valve Set, REF #: 160176; Qty: 6
- Flow sensor 1.88 m, 15M x 15F/22M connectors REF #: 281637, Qty: 7
- Hamilton BITRAC Nasal Mask (Adult Small) REF #: 10161579; Qty: 10
- Hamilton BITRAC Nasal Mask (Adult Medium) REF #: 10161578; Qty: 10
- Hamilton BITRAC Nasal Mask (Adult Large), REF #: 10161577; Qty: 10
- Hamilton Pulmodyne BITRAC SE Full Face Mask (Adult Medium), REF #: 313-9010W; Qty: 1
- Hamilton BITRAC Full-Face Mask (Adult Medium), REF #: 10161770; Qty: 6
- Hamilton BITRAC Full-Face Mask (Adult Large), REF #: 10161771; Qty: 7
- Onsite Technical Support: Qty: 1
- Assistance with equipment setup and breakdown and troubleshooting of equipment during course
- Vendor: FujiFilm Sonosite; Product: Ultrasound machines with cardiac probes; Qty: 4 (FujiFilm Sonosite)
- Vendor: GE; Product: Ultrasound machines with cardiac probes; Qty: 3 (GE)
 - Onsite Technical Support (equipment setup/breakdown and assistance during course); Qty: 1/vendor (Sonosite and GE)
- Vendor: ResMed, Product:
 - 5 BPAP-S (Aircurve A10)
- Vendor: ResMed,
 - Product: 5 BPAP-STA (Aircurve STA)
- Vendor: Adapt,
 - Product: 5 Astral 150 -Circuit/tubing for BPAP-S, BPAP-STA, Astral 150; Qty: 5 (1/device)
 - Breas Vivos; Qty: 5
- Vendor: Edwards LifeSciences;
 - Swan-Ganz Pulmonary Artery Catheters; Qty: 6 (5 kits plus 1 back up)
- Vendor: Inari Medical;
 - Mentice Device; Qty: 4
 - Mentice Device; Qty: 2
 - FlowTrieve Retrieval/Aspiration System; Qty: 2
 - Simulator for the FlowTrieve Retrieval/Aspiration System; Qty: 2
 - Supplies to go with FlowTrieve System; Qty: 2



- Onsite Technical Support; Qty: 1
- Vendor: Penumbra;
 - PE Simulator; Qty: 2

Education Committee/Planners

Chair

Hans J. Lee, MD, FCCP

Consultant relationship: Veracyte, Veran Medical, Cook Medical, Merit Medical, INTuitive Surgical; Research and Education relationship: Veracyte; President relationship: Association of Interventional Pulmonary Program Directors; Advisory Board relationship: Veracyte; Focus Group relationship: Cook Medical

Vice-Chair

Mark Lavercombe, MBBS, FCCP

No financial relationships to disclose.

CHEST CME Staff Planners

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

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

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