



# CHEST Curriculum Pathway for Pulmonary Hypertension

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Title: CHEST Curriculum Pathway for Pulmonary Hypertension

Co-Chair: Jess Mandel, MD

Co-Chair(s): Victor J. Test, MD, FCCP

#### **Course Description**

Start learning with the CHEST Curriculum Pathway for Pulmonary Hypertension. Follow the four paths from start to finish for a comprehensive overview of pulmonary hypertension diagnosis and management. Or, select the individual paths that best fit your daily work and clinical interests. Choose from topics like pulmonary arterial hypertension, chronic thromboembolic pulmonary hypertension, and right ventricular failure.

The pathway offers a variety of bite-sized educational resources you can review in 20 minutes or less. Explore case-based CHEST SEEK™ questions, videos and slide presentations from pulmonary hypertension experts, and research from the journal CHEST®.

## **Course Objectives**

## **Pulmonary Arterial Hypertension:**

After engaging with these educational activities, learners should be better able to:

- 1. Identify the clinical presentation of patients with pulmonary arterial hypertension (PAH) including history and examination.
- 2. Develop a diagnostic strategy for patients with pulmonary hypertension (PH) based upon guideline recommendations.
- 3. Utilize risk calculation strategies in the clinical decision-making process of patients with PH.
- 4. Apply guideline-based and risk-based criteria in making therapeutic choices in PAH.

#### **Chronic Thromboembolic Pulmonary Hypertension:**

After engaging with these educational activities, learners should be better able to:

- 1. Identify diagnostic modalities useful for establishing the diagnosis of chronic thromboembolic pulmonary hypertension (CTEPH).
- 2. Differentiate patients best served by surgery, balloon pulmonary angioplasty, and medical therapy for CTEPH.
- 3. Recognize common complications in the postoperative period following pulmonary thromboendarterectomy.

#### Pulmonary Hypertension Related to Heart and Lung Disease:

After engaging with these educational activities, learners should be better able to:

- 1. Describe the prognostic importance of pulmonary hypertension (PH) in patients with interstitial lung disease (ILD) and left-sided heart disease.
- 2. Explain the impact of PH therapy in patients with PH due to ILD or left-sided heart disease.

## Right Ventricular Failure:

After engaging with these educational activities, learners should be better able to:

- 1. Explain the pathophysiology of decompensated right ventricular failure.
- 2. Illustrate the fundamentals of management of the pulmonary hypertension patient in the perioperative period.
- 3. Distinguish key therapeutic interventions in decompensated right ventricular failure.

## **Participation Feedback**

The participation threshold or passing standard for this course 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 course.

## **Maintenance of Licensure**

Maintenance of Credit (MOC) offered in medical knowledge Scope of Practice-Pulmonary Education.



## **FACULTY**

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#### **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 any relevant financial relationships with <a href="Accreditation Council for Continuing Medical Education defined ineligible companies">Accreditation Council for Continuing Medical Education defined ineligible companies</a> 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 course director/chair, the Education Committee, 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 <u>financial relationship</u> with a commercial interest as it relates to the course:

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Dorreen Addrizzo-Harris, MD, FCCP	Planner	Clinical trial and principal investigator relationship:
		Insmed Incorporated and AN2
		Principal investigator for research trial relationship:
		Hillrom and Boehringer Ingelheim International
		GmbH
		Principal investigator for research grant relationship:
		Zambon Company S. P. A.
Ayodeji Adegunsoye, MD	Planner	Consultant relationship: Boehringer Ingelheim
		International GmbH and Genentech, Inc.
		Speaker's bureau relationship: Boehringer Ingelheim
		International GmbH
Alvar Agusti, MD, PhD	Planner	Grant support and personal fees: GSK plc, The
		Menarini Group, CHIESI USA, Inc., and AstraZeneca
		Personal fees: Zambon Company S. P. A.
Bindu Akkanti, MD, FCCP	Faculty/Work Group	Research grant relationship: ALung Technologies
	Reviewer	(LivaNova PLC)
		Speaker/speaker's bureau and honoraria
		relationship: Janssen Global Services, LLC, and
		ABIOMED
		Scientific medical advisor and honoraria relationship:
		ALung Technologies (LivaNova PLC)
William R. Auger, MD, FCCP	Planner	Consultant relationship: Janssen Global Services,
		LLC, and Neptune Medical & Surgical Supply, Inc.
David B. Badesch, MD, FCCP	Planner	Institution received grants from Johnson & Johnson



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		Services, Inc. (Actelion), Aires Medical, Arena Medical Group, Bayer AG, Bellerophon Therapeutics, Duke University, Eiger BioPharmaceuticals, Gilead Sciences, Inc., Bellerophon Therapeutics, Inova, Lung LLC, Biogen (Reata Pharmaceuticals), United Therapeutics Corporation, University of Cincinnati Advisory board relationship: Accelleron, Johnson & Johnson Services, Inc. (Actelion), Arena Medical Group, Complexa, Inc., Gilead Sciences, Inc., Liquidia Corporation CME activity relationship and funding: Johnson & Johnson Services, Inc. (Actelion) and United Therapeutics Corporation Speaking relationship: Johnson & Johnson Services, Inc. (Actelion), Aspen Holdings, Bayer AG, and Gilead Services, Inc. (Educational industry-sponsored scientific meeting: Johnson & Johnson Services, Inc. (Actelion)
		Stock relationship: Johnson & Johnson Services, Inc.
Vijay P. Balasubramanian, MD, FCCP	Planner	Speaker's bureau, faculty, and peer reviewer relationship: United Therapeutics Corporation, Boehringer Ingelheim International GmbH, Bayer AG, and Janssen Global Services, LLC
Stefano Barco, MD, PhD	Planner	Grant and contract relationship: Bayer AG, Inari Medical, Boston Scientific Corporation, Medtronic, Bard Medical, Sanofi, and Concept Medical Consultant relationship: Inari Medical Honoraria relationship: Boston Scientific Corporation and Concept Medical Meeting and travel support: Bayer AG and Daiichi
		Sankyo Company, Limited
Sonja D. Bartolome, MD	Planner	Consultant relationship: Janssen Global Services, Inc. and United Therapeutics Corporation Institution has received research support for studies sponsored by United Therapeutics Corporation and PhaseBio Pharmaceuticals, Inc.
Raymond Benza, MD	Planner	Institution has received grant funding from the American Heart Association, Inc., Bayer AG, and United Therapeutics Corporation
Erika Berman-Rosenzweig, MD	Planner	Institution received grants from Johnson & Johnson Services, Inc. (Actelion), Gilead Services, Inc., and United Therapeutics Corporation Speaker relationship: Gilead Services, Inc. Medical consultant relationship: Ikaria
David L. Bowton, MD, FCCP	Planner	Consultant relationship with fee: Covidien
Luka Brcic, PhD	Planner	Grant support and personal fees: AstraZeneca and Takeda Pharmaceutical Company Limited Grant support: Bristol-Myers Squibb Company Personal fees: Boehringer Ingelheim International GmbH, Merck & Co., Inc., Lilly, and Pfizer Inc. Personal fees and nonfinancial support: F. Hoffman-



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Samuel M. Brown, MD, MS	Planner	Data and safety monitoring board chair for a trial
		relationship: Hamilton Medical ventilators
Andreea M. Bujor, MD, PhD	Planner	Consultant relationship: Biogen
Stephen Y. Chan, MD, PhD	Faculty	Consultant relationship: United Therapeutics
• , ,	,	Corporation and Accelleron
		Research grant funding relationship: Johnson &
		Johnson Services, Inc. (Actelion), Bayer AG, and
		Pfizer Inc.
		Director, officer, and shareholder relationship:
		Syngle Therapeutics
		Has submitted patent applications regarding
		metabolism in pulmonary hypertension
Kelly M. Chin, MD	Planner	Consultant and steering/advisory and adjudication
		committee relationship: Altavant Sciences, Inc.,
		Gossamer Bio, Janssen Global Services, LLC, Bayer
		AG, Merck & Co, Inc., Inhibikase Therapeutics, Inc.,
		and Arena Medical Group/United Therapeutics
		Corporation
		Institution has received research support for clinical
		studies overseen by Altavant Sciences, Inc.,
		Gossamer Bio, Janssen Global Services, LLC, and
		Pfizer Inc.
		Clnical trials relationship: Merck & Co, Inc.; Janssen
		Global Services, LLC; Gossamer Bio; and United
		Therapeutics Corporation
Andrew M. Churg, MD	Planner	Speaker/speaker's bureau relationship: Boehringer
		Ingelheim Canada and F. Hoffman-La Roche Canada
Nancy Collop, MD, Master FCCP	Planner	Research relationship: Huxley Medical
		Editor relationship: UpToDate
Gregory P. Cosgrove, MD, FCCP	Planner	Honoraria and advisory committee member
		relationship: Genentech, Inc., InterMune, Inc.,
		Pulmonary Fibrosis Foundation (support to National
		Jewish Health), Boehringer Ingelheim International
		GmbH, Global Therapeutics Corporation, and
		Veracyte, Inc.
		Grant research support: Pulmonary Fibrosis
		Foundation, Bristol-Myers Squibb Company, and
		Global Blood Therapeutics
		Consultant with fee: Boehringer Ingelheim
		International GmbH and Global Academy
Joao A. de Andrade, MD	Planner	Honoraria: Boehringer Ingelheim International
		GmbH and Genentech, Inc.
		Data and safety monitoring board relationship:
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		and Blood Institute (Pulmonary Trials Consortium)
Chunqin Deng, PhD	Faculty	Employee of United Therapeutics Corporation
Philipp Douschan, MD	Planner	Personal fees and nonfinancial support: Johnson &
		Johnson Services, Inc. (Actelion) and Merck & Co.,



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		Inc.
		Nonfinancial support: AstraZeneca, Bayer AG, GSK
		plc, Novartis AG, Teva Pharmaceutical Industries Ltd,
		Boehringer Ingelheim International GmbH, CSL, and
		Menarini Group
Hilary M. DuBrock, MD	Planner	Consultant relationship: Janssen Global Services, Inc.
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		Advisory board relationship: United Therapeutics
		Corporation and Janssen Global Services, Inc.
Karim El-Kersh, MD	Planner	Institutional research grant funding and advisory
		board relationship: UT and Johnson & Johnson
		Services, Inc. (Actelion)
		Speaker's bureau relationship: UT
		Consultant relationship: Accelleron
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		Employee of Intermountain Health, which receives
		compensation for C. G. E.'s service on data safety
		boards for Lung Bioengineering, Gossamer Bio, and
		Insmed Incorporated
		Institution received grants from Johnson & Johnson
		Services, Inc. (Actelion), Gilead Services, Inc.,
		Intermountain Health, and United Therapeutics
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		Services, Inc., United Therapeutics Corporation,
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		Therapeutics, Bayer AG, Gossamer Bio, Liquidia
		Corporation, and Merck & Co., Inc.
		Research support/grant funding: Janssen Global
		Services, Inc., United Therapeutics Corporation,
		Liquidia Corporation, PhaseBio Pharmaceuticals,
		Inc., Gossamer Bio, Bayer AG, Accelleron, Altavant
		Sciences, Inc., Aerovate Therapeutics, Tenax
		Corporation, and Pharmosa Biopharm Inc.
Karen Fagan, MD	Planner	Institution received grants from Johnson & Johnson
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		Inc., and United Therapeutics Corporation
		Royalties: UpToDate
Harrison W. Farber, MD	Planner	Speaker relationship: Bayer AG
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		Global Services, Inc., Accelleron, Merck & Co., Inc.,
		Aerami Therapeutics Holdings, Inc., Aerovate
		Therapeutics, Altavant Sciences, Inc., Enzyvant, and
		United Therapeutics Corporation
		Research support: Janssen Global Services, Inc. and
		United Therapeutics Corporation
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Vasile Foriss, MD, PhD	Planner	Respivant Sciences, Blade Therapeutics, Shionogi Inc., Dev.Pro, AstraZeneca, Pure Health Research, Horizon, FibroGen, Inc., Sun Pharmaceutical Industries Ltd, Pliant, United Therapeutics Corporation, Arrowhead Medical, Lupin, Polarean, Inc., and PureTech Health Steering committee chair relationship: Pulmonary Fibrosis Foundation patient registry  Nonfinancial support: Johnson & Johnson Services, Inc. (Actelion), CHIESI USA, Inc., Bristol-Myers Squibb Company, and Menarini Group Grants and nonfinancial support: Boehringer Ingelheim International GmbH, GSK plc, Merck &
Josephine Garcia-Ferrer, PhD	Faculty	Co., Inc., and AstraZeneca  Employee and stockholder relationship: Johnson &  Johnson Services, Inc. (Actelion)
Paresh C. Giri, MD, FCCP	Planner	Speaker's bureau relationship: United Therapeutics Corporation
Mardi Gomberg-Maitland	Planner	Altavant Sciences, Inc., Bayer AG, and Aerovate Therapeutics Consultant and data safety monitoring board relationship: Accelleron/Merck & Co., Inc., Johnson & Johnson Services, Inc. (Actelion)/Janssen Global Services, Inc., and United Therapeutics Corporation
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Gustavo A. Heresi, MD, MS	Planner	Speaker's bureau and advisory board relationship: Bayer AG Clinical trial steering committee and advisory board relationship: Janssen Global Services, Inc.
John H. Holmes, PhD	Planner	Grant, contracts, and travel funding: University of Pavia Advisory board relationship: The CTSA Program National Center for Data to Health (CD2H)
Shilpa Johri, MD, FCCP	Planner	Research grant relationship: United Therapeutics Corporation, Accelleron, Bayer AG, Gossamer Bio, and PureTech Health
Arun Jose, MD, MS	Planner	Funding relationship: National Institutes of Health (K23), the Frances Foundation for Kids Fighting Cancer, Inc. (Parker B. Francis Fellowship), United Therapeutics Corporation (Investigator Sponsored Study), and Team PHenomenal Hope (Team PH Award)
George H. Karam, MD, FCCP	Planner	Consultant and advisory committee member relationship: Merck & Co., Inc. and Shionogi Inc.
Steven M. Kawut, MD	Planner	Advisory board relationship: GSK plc (no compensation), Accelleron, and VIVUS LLC



		CME speaking relationship with funding: Johnson & Johnson Services, Inc. (Actelion), Bayer AG, and Gilead Services
		CME speaking relationship: United Therapeutics Corporation (no compensation) Data safety monitoring board chair: United Therapeutics Corporation
		Therapeutics Corporation Editorial board relationship: European Respiratory Journal
Kim M. Kerr, MD	Planner	Grant funding: Bayer AG Consultant relationship: Johnson & Johnson Services, Inc. (Actelion)
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Christopher S. King, MD	Planner	Advisory board relationship: United Therapeutics Corporation, Johnson & Johnson Services, Inc. (Actelion), and Boehringer Ingelheim International GmbH Advisory committee member relationship: Merck & Co., Inc. Speaker/speaker's bureau relationship: Altavant Sciences, Inc., United Therapeutics Corporation, Johnson & Johnson Services, Inc. (Actelion), and Boehringer Ingelheim International GmbH
John F. Kingrey, MD	Planner	Speaker and consultant relationship: Janssen Global Services, Inc., United Therapeutics Corporation, and Bayer AG Research relationship: Janssen Global Services, Inc., United Therapeutics Corporation, Gossamer Bio, and Merck & Co., Inc. Speaker's bureau relationship: Johnson & Johnson Services, Inc. (Actelion)
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Frederikus A. Klok, MD, PhD	Planner	Research grant funding: Bayer AG, Bristol-Myers Squibb Company, Boehringer Ingelheim



		International GmbH, Merck & Co., Inc., LEO Pharma
		A/S, Daiichi Sankyo Company, Limited, Johnson &
		Johnson Services, Inc. (Actelion), The Netherlands
		Organisation for Health Research and Development,
		The Dutch Association for Thrombosis and
		Hemostasis, The Dutch Heart Foundation, and
		Horizon Europe
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·		Corporation
		Advisory board relationship: Bayer AG
Stavros V. Konstantinides, MD, PhD	Planner	Grant funding: Bayer AG
,		Consultant relationship: Bayer AG, Daiichi Sankyo
		Company, Limited, and Boston Scientific Corporation
		Honoraria: Bayer AG, Inari Medical, Merck & Co.,
Cabar Kausaa MD	Diaman	Inc., Pfizer Inc., and Bristol-Myers Squibb Company
Gabor Kovacs, MD	Planner	Personal fees and nonfinancial support: Johnson &
		Johnson Services, Inc. (Actelion), Janssen Global
		Services, Inc., Bayer AG, GSK plc, Merck & Co., Inc.,
		Boehringer Ingelheim International GmbH, Novartis
		AG, CHIESI USA, Inc., VitalAire, Ferrer, and AOP
		Orphan Pharmaceuticals GmbH
Karl-Friedrich Kreitner, MD	Planner	Consultant relationship: Bender Inc. and Boehringer Ingelheim International GmbH
Jacqueline M. Kruser, MD, MS	Planner	Advisory committee member relationship:
		AstraZeneca
Daniel Lachant, DO, ATSF	Planner	Speaking and consultant relationship: United
		Therapeutics and Bayer
Lisa H. Lancaster, MD	Planner	Grant funding and principal investigator relationship
Lisa in Lancaster, wib	T idillici	through Vanderbilt University: Genentech, Inc.,
		Boehringer Ingelheim International GmbH, Galactic
		Medical LLC, Novartis AG, Bristol-Myers Squibb
		· · · · · · · · · · · · · · · · · · ·
		Company, and Bellerophon Therapeutics
		Consultant relationship: AstraZeneca, Galapagos NV,
		and United Therapeutics Corporation
		Speakers bureau relationship: Boehringer Ingelheim
		International GmbH and Genentech, Inc.
		Data safety and monitoring board relationship:
		Senhwa Biosciences, Inc.
		Steering committee member relationship:
		Pulmonary Fibrosis Foundation Patient Registry
Joyce S. Lee, MD	Planner	Grant funding: National Institutes of Health/National
		Heart, Lung, and Blood Institute from Boehringer
		Ingelheim International GmbH
		Consultant relationship: Galapagos NV, Boehringer
		Ingelheim International GmbH, United Therapeutics
		Corporation, and Eleven P15
		Data safety and monitoring board relationship:
		TETON trial (United Therapeutics Corporation) and
		Avalyn Pharma Inc
		Senior medical advisor relationship: Pulmonary
		Fibrosis Foundation



Deborah Jo Levine, MD, MS, FCCP	Planner	Nonmonetary support for educational industry- sponsored scientific meeting: Johnson & Johnson Services, Inc. (Actelion)
Sebastian Ley, MD	Planner	Consultant relationship: Bayer AG, Boehringer Ingelheim International GmbH, CSL, and AstraZeneca
Neil R. MacIntyre, MD, FCCP	Planner	Consultant fee: breathe technology, Hillrom, Alana Healthcare, Inspirix Technologies LLC, and Ventec Life Systems
Atul Malhotra, MD	Planner	Medical education funding relationship: LivaNova PLC, Equillium Bio, and CorVus Biomedical, LLC
Darcy D. Marciniuk, MD, Master FCCP	Planner	Scientific medical advisor relationship: Health Canada, Lung Association of Saskatchewan, Saskatchewan Ministry of Health, Saskatchewan Health Authority Research relationship: AstraZeneca (funds held and managed by University of Saskatchewan), Boehringer Ingelheim Internation GmbH (funds held and managed by University of Saskatchewan), Canadian Institutes of Health Research, GSK plc (funds held and managed by University of Saskatchewan), Grifols, S. A. (funds held and managed by University of Saskatchewan), Lung Association of Saskatchewan, Novartis AG (funds held and managed by University of Saskatchewan), Sanofi (funds held and managed by University of Saskatchewan), Schering-Plough Corporation (funds held and managed by University of Saskatchewan), Syneos Health, Pearl Therapeutics (AstraZeneca), McGill University Health Centre, Parexel International (MA) Corporation, and the Saskatchewan Health Research Foundation
Stephen C. Mathai, MD, MHS, FCCP	Planner	GSK plc, Bristol-Myers Squigg Company (Celgene), UpToDate, and Bayer AG Consultant relationship: Johnson & Johnson Services, Inc. (Actelion)/Janssen Global Services, Inc., Liquidia Corporation, Theravance Biopharma, and United Therapeutics Corporation Research support (to institution): Johnson & Johnson Services, Inc. (Actelion), United Therapeutics Corporation, National Scleroderma Foundation, National Institutes of Health/National Heart, Lung, and Blood Institute, and the US Department of Defense Rare disease advisory panel member relationship: Patient-Centered Outcomes Research Institute
Jeremy A. Mazurek, MD	Planner	Advisory board relationship: United Therapeutics Corporation
Peter J. Mazzone, MD, MPH, FCCP	Planner	Research support: Veracyte, Inc., Delfi Medical Innovations Inc., Nucleix, Biodesix, PrognomIQ, ADELA, Inc., MagArray, Inc., and Exact Sciences Corporation



Robyn L. McClelland, PhD	Planner	Observational study monitoring board: RURAL Cohort Study
Vallerie McLaughlin, MD	Planner	Research support/grants: Aerovate Therapeutics; Altavant Sciences, Inc.; Gossamer Bio; Janssen Global Services, Inc; Keros Therapeutics; Merck & Co., Inc.;, and SoniVie Consultant relationship: Aerami Therapeutics Holdings, Inc.; Aerovate Therapeutics; Altavant Sciences, Inc.; Apollo Pharmac; Bayer AG; CVS Caremark; CorVista Health; Gossamer Bio; Janssen Global Services, Inc.; Keros Therapeutics; Liquidia Corporation; Morphic Therapeutic; Regeneron Pharmaceuticals Inc; Respira Therapeutics Inc; Roivant Sciences; and United Therapeutics Corporation
Lana Melendres-Groves, MD	Planner	Bayer AG, United Therapeutics Corporation, and Janssen Global Services, Inc.
Christopher Mullin, MD, MHS	Planner	Consultant relationship: Regeneron Pharmaceuticals Inc. Data and safety monitoring board member relationship: SEPVADIS Study (NCT04797286)
Septimiu D. Murgu, MD, FCCP	Planner	Educational consultant relationship: Olympus Corporation, Boston Scientific Corporation, and Johnson & Johnson Services, Inc.
Mangala Narasimhan, DO, FCCP	Planner	Advisory board relationship: Pfizer Inc.
Steven D. Nathan, MD	Planner	Writing support: United Therapeutics Corporation Consultant relationship: United Therapeutics Corporation, Bellerophon Therapeutics, Merck & Co., Inc., Bayer AG, F. Hoffman-La Roche Ltd, Third Pole, Inc., and Boehringer Ingelheim International GmbH Expert testimony relationship: F. Hoffman-La Roche Ltd Speaker's bureau relationship: United Therapeutics Corporation, Bayer AG, and Boehringer Ingelheim International GmbH
Horst Olschewski, MD	Planner	Grant support: Bayer AG, Johnson & Johnson Services, Inc. (Actelion), F. Hoffman-La Roche Ltd, Boehringer Ingelheim International GmbH, and Algorithm Sciences Personal fees and nonfinancial support: Bayer AG, Johnson & Johnsons Services, Inc. (Actelion), Pfizer, Inc., Novartis AG, AstraZeneca, Boehringer Ingelheim International GmbH, CHIESI USA, Inc., Menarini Group, Merck & Co., Inc., GSK plc, Inventiva, and Janssen Global Services, Inc.
Ronald J. Oudiz, MD	Planner	Research support: Aadi Bioscience, Accelleron/Merck & Co., Inc., Gossamer Bio, Insmed Incorporated, Johnson & Johnson Services, Inc., Liquidia Corporation, and United Therapeutics



		Corporation
		Consultant and speaker's bureau relationship:
		Accelleron/Merck & Co., Inc., Insmed Incorporated,
		Johnson & Johnson Services, Inc., Liquidia
		Corporation, Medtronic, Respira Therapeutics Inc.,
		United Therapeutics Corporation, and V-Wave Ltd
Harold I. Palevsky, MD	Planner	Honoraria relationship: Johnson & Johnson Servces,
,,		Inc. (Actelion)/Janssen Global Services Inc.,
		Accelleron, PhaseBio Pharmaceuticals, Inc., and
		United Therapeutics Corporation
David Poch, MD	Planner	Principal investigator relationship: United
David Footi, Wil	T Idillici	Therapeutics Corporation, PhaseBio
		Pharmaceuticals, Inc., Accelleron, and Janssen
		Global Services, Inc.
Joans D. Droston MD	Dlaman	·
Ioana R. Preston, MD	Planner	Medical writing support: Parexel International (MA)
		Corporation
		Grant support: Accelleron, Johnson & Johnson
		Services, Inc. (Actelion), PhaseBio Pharmaceuticals,
		Inc., Tenax Corporation, and United Therapeutics
		Corporation
		Honoraria: MedOnTheGo, Medscape, and Integrity
		Continuing Education Inc.
		Expert testimony relationship: Bayer AG
		Data and safety monitoring board relationship:
		Accelleron, Johnson & Johnson Services, Inc.
		(Actelion), Altavant Sciences, Inc., Respira
		Therapeutics Inc., Pfizer, Inc., and United
		Therapeutics Corporation
		Leadership role relationship: International Society
		for Heart and Lung Transplantation
J. Javier Provencio, MD	Planner	Consultant and advisory committee member
		relationship: Minnetronix Medical. and Cryothermic
		Systems Incorporated
Franck F. Rahaghi, MD, MHS, FCCP	Planner	Writing support: United Therapeutics Corporation
		Grant funding: Bayer AG, Janssen Global Services,
		Inc., and Accelleron
		Honoraria: United Therapeutics Corporation,
		Janssen Global Services, Inc., and Bayer AG
		Consultant, teaching, and speaker relationship:
		Boehringer Ingelheim International GmbH, Janssen
		Global Services, Inc., Bayer AG, United Therapeutics
		Corporation, Grifols, S. A., and Takeda
		Pharmaceutical Company Limited
	DI DI	Consultant relationship: Novartis AG
Sudarshan Rajagopal, MD	Planner	Consultant relationship: APIE Therapeutics, Altavant
		Sciences, Inc., Gossamer Bio, Insmed Incorporated,
		Janssen Global Services, Inc., Liquidia Corporation,
		Polarean, Inc., and United Therapeutics Corporation
		Funding support: Janssen Global Services, Inc. and
		United Therapeutics Corporation
		Patent holder on US patent 62/673/3,175 entitled



		"Dynamic 129Xe Gas Exchanged Spectroscopy" that
		is licensed to Polarean, Inc.
Todd W. Rice, MD, MSc, FCCP	Planner	Consultant relationship: Cumberland
		Pharmaceuticals, Sanofl, and Cytovale, Inc.
		Board of directors relationship: American Society for
		Parenteral and Enteral Nutrition
		Investigator of study relationship: AbbVie Inc.
Franz Rischard, MD	Planner	Consultant relationship: Accelleron and United
,		Therapeutics Corporation
		Steering committee relationship: Accelleron, Insmed
		Incorporated, United Therapeutics Corporation,
		Bayer AG, Janssen Global Services, Inc., and AADI
		Bioscience
Belinda N. Rivera-Lebron, MD, FCCP	Planner	Site principal investigator and global study
, ,		investigator: Johnson & Johnson Services, Inc.
		Medical education consultant relationship: Inari
		Medical
		Intellectual property relationship: McGraw Hill and
		Wolters Kluwer N. V.
		Consultant relationship: Bayer AG, Johnson &
		Johnson Services, Inc., and Bristol-Myers Squibb
		Company
		Research support: Johnson & Johnson Services, Inc.
		and Boston Scientific Corporation
		Board of directors relationship: The PERT
		Consortium
Stephan Rosenkranz, MD, PhD	Planner	Grant funding: Johnson & Johnson Services, Inc.
•		(Actelion), AstraZeneca, Bayer AG, Janssen Global
		Services, Inc., and Novartis AG
		Consultant relationship: Abbott, Accelleron, Johnson
		& Johnson Services, Inc. (Actelion), Bayer AG,
		Janssen Gobal Services, Inc., erck & Co., Inc.,
		Novartis AG, Pfizer, Inc., United Therapeutics
		Corporation, and CSL
		Honoraria: Johnson & Johnson Services, Inc.
		(Actelion), Bayer AG, Bristol-Myers Squibb Company,
		Ferrer, GSK plc, Janssen Global Services, Inc., Merck
		& Co., Inc., Novartis AG, Pfizer, Inc., United
		Therapeutics Corporation, and CSL
John J. Ryan, MD	Planner	Monetary and nonmonetary support for advisory
		board relationship: Bayer AG
Zeenat Safdar, MD	Planner	Medical writing support: United Therapeutics
•		Corporation
		Consultant and advisory board relationship: United
		Therapeutics Corporation, Johnson & Johnson
		Services, Inc., Bayer AG, Genentech, Inc., Boehringer
		Ingelheim International GmbH, and United
		Therapeutics Corporation
Sandeep Sahay, MD, FCCP	Planner	Consultant relationship: Johnson & Johnson
		Services, Inc. (Actelion), Bayer AG, Gossamer Bio,
		Services, Inc. (Actendin), bayer Ad, dossamer bio,



Christian E. Sandrock, MD, MPH, FCCP	Planner	Corporation, Janssen Services, Inc., and Accelleron Scientific medical advisor relationship: Bayer AG Speaker/speaker's bureau relationship: United Therapeutics Corporation, Janssen Global Services, Inc. (honorarium received by Houston Methodist) and Bayer AG Honoraria: Johnson & Johnson Services, Inc., United Therapeutics Corporation, Liquidia Corporation, Gossamer Bio, GSK plc, and Bayer AG Has received a patent submitted for Johnson & Johnson Services, Inc. as an inventor (secondary titration of UPTRAVI)  Data and safety monitoring board for a clinical trial sponsored by the National Institutes of Health Advisory board relationship: United Therapeutics Corporation, Bayer AG, Liquidia Corporation, and Accelleron  Research grant: United Therapeutics Corporation Clinical trial support: United Therapeutics Corporation, Janssen Global Services, Inc., Gossamer Bio, Altavant Sciences, Inc., Liquidia Corporation, Boehringer Ingelheim International GmbH, and Novartis AG  Honoraria and speaker's bureau relationship: AbbVie Inc. (Allergan), Pfizer,Inc., Merck & Co., Inc., Actavis,
		Inc., and Cubist IT AB Consultant relationship with fee: Theravance Biopharma Grant research support: Nabriva Therapeutics plc
Gregory A. Schmidt, MD, FCCP	Planner	Editor/author relationship: McGraw Hill and Springer Nature Author relationship: UpToDate
Mary Beth Scholand, MD, FCCP	Planner	Advisory committee member relationship: Veracyte, Inc., Genentech, Inc., and United Therapeutics Corporation Speaker/speaker's bureau relationship: Boehringer Ingelheim International GmbH
Mona Selej, MD	Faculty	Employee and stockholder relationship: Johnson & Johnson Services, Inc. (Actelion)
Trushil Shah, MD	Planner	Consultant relationship: Bayer AG and Liquidia Corporation Research support to institution for clinical trial work from Janssen Global Services, Inc., Bayer AG, Liquidia Corporation, Regeneron Pharmaceuticals Inc., and United Therapeutics Corporation
Eric Shen, PharmD	Faculty	Employee of United Therapeutics Corporation
Oksana A. Shlobin, MD, FCCP	Planner	Honoraria: United Therapeutics Corporation, Bayer AG, and Johnson & Johnson Services, Inc. Data and safety monitoring and advisory board relationship: United Therapeutics Corporation,



		Bayer, AG Johnson & Johnson Services, Inc., and Altavant Sciences, Inc.
Gerard A. Silvestri, MD, Master FCCP	Planner	Educational consultant relationship: Biodesix, AstraZeneca, Olympus Corporation Educational industry-sponsored activity relationship: Biodesix
Peter Smith, PharmD	Faculty	Employee of United Therapeutics Corporation
Namita Sood, MD, FCCP	Planner	Speaker's bureau relationship: Boehringer Ingelheim International GmbH and Bayer AG Consultant and advisory board relationship: Merck & Co., Inc., Liquidia Corporation, and United Therapeutics Corporation Research relationship: United Therapeutics Corporation, Janssen Global Services, Inc., Altavant Sciences, Inc., Gossamer Bio, F. Hoffman-La Roche Ltd, Fibrinogen, Merck & Co., Inc., Bayer AG, Bellerophon Therapeutics, and Respira Therapeutics Inc.
Virginia D. Steen, MD	Planner	Institution received grants with a portion going to salary support for Dr. Steen from Bayer AG, CSL, and University of Michigan/Bristol-Myers Squibb Company Institution received grants with no salary support going to Dr. Steen from Cytori Therapeutics Inc., Gilead Services, and Reata Pharmaceuticals Advisory board relationship: Johnson & Johnson Services, Inc. (Actelion), Bayer AG, Bristol-Myers Squibb Company, Cytori Therapeutics Inc., Gilead Services, and Reata Pharmaceuticals
Mary E. Strek, MD, FCCP	Planner	Principal investigator and medical writing assistance relationship: Boehringer Ingelheim International GmbH and Galapagos NV Endpoint adjudication committee member relationship: Fibrinogen
Roxana Sulica, MD	Planner	Contacted research (to institution): Bayer AG, United Therapeutics Corporation, Altavant Sciences, Inc., Gossamer Bio, Merck & Co., Inc., Accelleron, and Bellerophon Therapeutics Advisory board relationship: Bayer AG, United Therapeutics Corporation, Altavant Sciences, Inc. Gossamer Bio, Merck & Co., Inc., and Accelleron
Victor F. Tapson, MD	Faculty	Employee of Inari Medical Research support: Bayer AG, Boston Scientific Corporation, Daiichi Sankyo Company, Genentech, Inc., and Janssen Global Services, Inc. Steering committee relationship: Bayer AG, BiO2 Medical, Penumbra, Daiichi, Thrombolex, and United Therapeutics Consultant relationship: Janssen and Bio2 Medical Inc Speaker relationship/honoraria: Janssen Global



		Services, Inc.
Fernando Torres, MD	Planner	Consultant relationship: Altavant Sciences, Inc., Bayer AG, and United Therapeutics Corporation Data and safety monitoring board relationship: Pfizer, Inc. Fees to institution for research with United Therapeutics Corporation
Momen M. Wahidi, MD, MBA, FCCP	Planner	Consultant relationship: Olympus Corporation, Pulmonx Corporation, Cook, Veracyte, Inc., and Verathon Inc.
Aaron B. Waxman, MD, PhD	Planner	Investigator and steering committee chair relationship: United Therapeutics Corporation and Accelleron Principal investigator relationship: ARIA CV Inc. Grant support: Janssen Global Services, Inc.; R01HL158077 Co-I; R01HL160025 Co-I Co-principal investigator relationship: PVDomics
Carol Zhao, MS	Faculty	Employee of Actelion Current stockholder of Johnson & Johnson Services, Inc.

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

## **CHEST CME Staff Planners**

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

Manuel Alfaro, MBA
Nicki Augustyn, CAE
Conrad Allen
Kaitlyn Chisholm Dada, MFA
Morgan Jacobus
Carolyn M. Jones
Greg Lasko, MA, HRD
Martha Zaborowski Pascale, CPM
Jenny Szabo, CAE

# **CME/CE INFORMATION**

Kara Victorsen

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