

**REVIEWER RELATIONSHIPS WITH INDUSTRY AND OTHER ENTITIES (COMPREHENSIVE)—2019 ACC/AHA/ASE ADVANCED TRAINING
STATEMENT ON ECHOCARDIOGRAPHY**

Name	Employment	Representation	Consultant	Speakers Bureau	Ownership/ Partnership/ Principal	Personal Research	Institutional/ Organizational or Other Financial Benefit	Expert Witness
Jon Gorcsan, III	Washington University in St. Louis—Director of Clinical Research, Division of Cardiology	Official Reviewer, AHA	None	None	None	<ul style="list-style-type: none"> • Biotronik • GE Healthcare • Hitachu Aloka* • Medtronic* • Toshiba 	None	None
Rebecca T. Hahn	Columbia University College of Physicians & Surgeons—Professor of Medicine	Official Reviewer, ACC Competency Management Committee Lead Reviewer	<ul style="list-style-type: none"> • Gore and Associates • NaviGate 	<ul style="list-style-type: none"> • Abbott Vascular • Boston Scientific • Siemens Healthineers 	None	None	<ul style="list-style-type: none"> • Edwards Lifesciences† 	None
Glenn A. Hirsch	University of Louisville School of Medicine—Professor of Medicine	Official Reviewer, ACC Lifelong Learning Oversight Committee	None	None	<ul style="list-style-type: none"> • TraveDoc† 	<ul style="list-style-type: none"> • Dana and Christopher Reeve Foundation* • NIH* 	None	None
Brian D. Hoit	University Hospitals Cleveland Medical Center—Director of Echocardiographic Services University Hospitals Health System	Official Reviewer, ASE	None	<ul style="list-style-type: none"> • Philips* 	None	None	None	None
Michael L. Main	Saint Luke's Mid America Heart Institute—Medical Director, Echocardiography Laboratory; University of Missouri-Kansas City—Professor of Medicine	Official Reviewer, ACC Board of Governors	<ul style="list-style-type: none"> • Boston Scientific* 	None	None	<ul style="list-style-type: none"> • Boston Scientific* 	<ul style="list-style-type: none"> • ASE† • International Contrast Ultrasound Society† 	None

Susan A. Matulevicius	University of Texas Southwestern—Associate Professor, Medical Director Noninvasive Laboratories, University of Texas Southwestern and Parkland Health and Hospital Systems	Official Reviewer, AHA	None	None	None	None	None	None
Susan A. Mayer	Johns Hopkins School of Medicine—Director, Johns Hopkins Bayview Echocardiography Lab; Chair, Echo Education Committee	Official Reviewer, ASE	None	None	None	None	None	None
Vincent L. Sorrell	University of Kentucky—Anthony N. DeMaria Professor of Medicine	Official Reviewer, ASE; Cardiovascular Training Program Director	• Lantheus Medical Imaging	None	None	None	• NHLBI	None
Terrence D. Welch	Dartmouth-Hitchcock Medical Center—Assistant Professor of Medicine and Medical Education; Associate Director, Cardiovascular Fellowship	Official Reviewer, AHA	None	None	None	None	None	None

Konstantinos Dean Boudoulas	The Ohio State University— Associated Professor of Medicine; Section Head, Interventional Cardiology; Director, Cardiac Catheterization Laboratory	Organizational Reviewer, Society for Cardiovascular Angiography and Interventions	None	None	None	None	<ul style="list-style-type: none"> • Abbott • Medtronic 	None
Heidi J. Dalton	INOVA Fairfax Medical Center— Professor of Pediatrics; Virginia Commonwealth University— Professor of Clinical Surgery; George Washington University— Director of ECLS	Organizational Reviewer, Society of Critical Care Medicine	<ul style="list-style-type: none"> • Innovative ECMO Concepts* 	<ul style="list-style-type: none"> • Getinge 	None	None	None	None
Eliotte L. Hirshberg	Intermountain Medical Center Primary Children's Hospital—Critical Care Medicine; University of Utah— Associate Professor	Organizational Reviewer, Society of Critical Care Medicine	None	None	None	None	None	None
Michael R. Pinsky	University of Pittsburgh— Professor	Organizational Reviewer, American Thoracic Society	None	None	None	None	None	None
Frank Schembri	Boston University School of Medicine— Assistant Professor of Medicine	Organizational Reviewer, American Thoracic Society	None	None	None	None	None	None

Arnold H. Seto	Long Beach VA Medical Center—Chief of Cardiology	Organizational Reviewer, Society for Cardiovascular Angiography and Interventions	• Janssen Pharmaceuticals*	None	None	• Acist Medical • Amgen* • Novartis • Philips*	None	None
Nikolaos J. Skubas	Cleveland Clinic—Chairman, Department of Cardiothoracic Anesthesiology	Organizational Reviewer, Society of Cardiovascular Anesthesiologists	None	None	None	• Anesthesia & Analgesia (Editor) • National Board of Echocardiography† • Society of Cardiovascular Anesthesiologists†	None	None
Josh Zimmerman	University of Utah Department of Anesthesiology—Vice Chair, Perioperative Medicine; Director, Perioperative Echocardiography	Organizational Reviewer, Society of Cardiovascular Anesthesiologists	None	None	None	None	None	None
Hussein Abu Daya	University of Alabama at Birmingham—Cardiology Fellow	Content Reviewer, ACC Fellows in Training Section Leadership Council	None	None	None	None	None	None
Jonathan Afilalo	Division of Cardiology and Centre for Clinical Epidemiology, Jewish General Hospital, McGill University—Associate professor	Content Reviewer, ACC Geriatric Section Leadership Council	None	None	None	None	None	None
Ana Barac	MedStar Heart and Vascular institute—Director, Cardio-oncology Program	Content Reviewer, ACC Cardio-oncology Section Leadership Council	None	None	None	• Genentech	• Boston Scientific	None

Ron Blankstein	Brigham and Women's Hospital and Harvard Medical School—Co-Director, Cardiovascular Imaging Training Program; Associate Director, Cardiovascular Imaging Program; Associate Professor of Medicine and Radiology	Content Reviewer, Prevention of Cardiovascular Disease Section Leadership Council	<ul style="list-style-type: none"> • Amgen 	None	None	<ul style="list-style-type: none"> • Amgen† • Astellas† • Gilead Sciences† • Sanofi-aventis† 	<ul style="list-style-type: none"> • American Society of Nuclear Cardiology† • Intersocietal Accreditation Commission for Computed Tomography† • NHLBI • NIH • Society of Cardiovascular Computed Tomography† 	None
Anna Lisa Crowley	Duke University Medical Center—Associate Professor of Medicine; Durham VA Medical Center—Echocardiography Laboratory Director	Content Reviewer, ACC Cardiovascular Training Section Leadership Council; Cardiovascular Training Program Director	None	None	None	None	None	None
Michael W. Cullen	Mayo Clinic—Consultant, Department of Cardiovascular Medicine	Content Reviewer, ACC Early Career Section Leadership Council	None	None	None	None	None	None
Dennis Finkelstein	Mount Sinai Beth Israel—Program Director; Cardiovascular Disease Fellowship, Mount Sinai Beth Israel, Associate Professor of Medicine	Content Reviewer, Cardiovascular Training Program Director	<ul style="list-style-type: none"> • Boehringer Ingelheim 	<ul style="list-style-type: none"> • Bristol-Myers Squibb • Janssen Pharmaceuticals 	None	None	None	None

Michael S. Firstenberg	The Medical Center of Aurora—Associate Professor (NeoMed)	Content Reviewer, ACC Surgeons Section Leadership Council	<ul style="list-style-type: none"> • AllMed Healthcare Management* • Johnson & Johnson/Ethicon* • Maquet Cardiovascular* 	None	None	None	<ul style="list-style-type: none"> • Clinipace • Grisfols 	None
Rosario Freeman	University of Washington—Professor of Medicine Program Director, Cardiology Fellowship	Content Reviewer, ACC Competency Management Expertise	None	None	None	None	None	None
Martin E. Goldman	Mount Sinai Heart Icahn School of Medicine—Dr. Arthur Master Professor of Medicine	Content Reviewer, Cardiovascular Training Program Director	None	<ul style="list-style-type: none"> • Lantheus Medical Imaging 	None	None	<ul style="list-style-type: none"> • Fortress Biotech 	None
Katie Greenlee	Cleveland Clinic—Cardiology Clinical Specialist	Content Reviewer, ACC Cardiovascular Team Section Leadership Council	None	None	None	None	None	None
Jonathan L. Halperin	Mount Sinai Medical Center—Professor of Medicine (Cardiology)	Content Reviewer, ACC Competency Management Expertise	<ul style="list-style-type: none"> • American Board of Internal Medicine* • Bayer* • Boehringer Ingelheim* • Medtronic • Ortho-McNeil-Janssen • Pfizer* 	None	None	<ul style="list-style-type: none"> • NIH (NHLBI)† 	<ul style="list-style-type: none"> • HWL LLC† 	None

Katherine J. Hoercher	Cleveland Clinic—Senior Director Education, Heart and Vascular Institute	Content Reviewer, ACC Lifelong Learning Oversight Committee	None	None	None	None	None	None
Anitha S. John	Children's National Health System; George Washington University School of Medicine—Director, Washington Adult Congenital Heart; Associate Professor of Pediatrics	Content Reviewer, Adult Congenital and Pediatric Cardiology Section Leadership Council	None	None	None	None	None	None
Andrew M. Kates	Washington University School of Medicine—Professor of Medicine; Director Cardiovascular Fellowship Program	Content Reviewer, Cardiovascular Training Section Leadership Council; Cardiovascular Training Program Director	None	None	None	None	None	None
Allan L. Klein	Cleveland Clinic—Director; Pericardial Center, Professor of Medicine	Content Reviewer, Echocardiography Expertise	<ul style="list-style-type: none"> • Elsevier • Wolters Kluwer 	None	None	None	<ul style="list-style-type: none"> • ASE 	None

Viet T. Le	Intermountain Heart Institute, Intermountain Healthcare and Rocky Mountain University of Health Professions Physician Assistant Program—Cardiology Research Physician Assistant	Content Reviewer, ACC Cardiovascular Team Section Leadership Council	None	None	None	None	None	None
James C. Lee	Henry Ford Heart and Vascular Institute—Advanced Cardiovascular Imaging	Content Reviewer, ACC Imaging Section Leadership Council	None	None	None	None	None	None
Grace Lin	Mayo Clinic—Associate Professor of Medicine, Department of Cardiovascular Diseases. Medical Director, Heart Failure Services	Content Reviewer, ACC Heart Failure and Transplant Section Leadership Council	None	• Pfizer	None	• Medtronic†	None	None
Jonathan R. Lindner	Oregon Health & Science University—Professor	Content Reviewer, COCATS 4 Echocardiography Task Force	None	None	None	• Astellas† • Bracco† • GE Healthcare	• ASE	None

Matthew W. Martinez	Lehigh Valley Health Network—Associate Professor of Medicine; Associate Chief of Cardiology for Education; Cardiology Fellowship Program Director; Medical Director, Sports Cardiology and Hypertrophic Cardiomyopathy Program; Medical Director, Cardiovascular Imaging	Content Reviewer, Sports & Exercise Cardiology Section Leadership Council	None	None	None	• None	• None	None
John McPherson	Vanderbilt University Medical Center—Vice-Chair for Education	Content Reviewer, ACC Competency Management Expertise	None	None	• Agrin*	None	None	None
Ramdas G. Pai	University of California Riverside School of Medicine—Professor of Medicine; Chair of Medicine and Clinical Sciences; Director of Cardiovascular Fellowship	Content Reviewer, Cardiovascular Training Program Director	None	None	None	None	None	None
Aarti Patel	University of South Florida—Assistant Professor of Medicine	Content Reviewer, ACC Academic Section Leadership Council	None	None	None	None	None	None

Hena N. Patel	Rush University Medical Center—Cardiology Fellow in Training	Content Reviewer, ACC Fellows in Training Section Leadership Council	None	None	None	None	None	None
Bret A. Rogers	The University of Tennessee Medical Center at Knoxville—Director, Cardiology Fellowship Program; Director, Echocardiography Laboratory	Content Reviewer, Cardiovascular Training Program Director	None	None	None	None	None	None
John A. Schoenhard	CentraCare Heart—Director of Electrophysiology	Content Reviewer, Clinical Cardiac Electrophysiology Expertise	<ul style="list-style-type: none"> • Boston Scientific • Medtronic 	None	None	None	None	None
Kristine Anne Scordo	Wright State University, College of Nursing—Professor and Director Adult-Gerontology Acute Care Nurse Practitioner Program	Content Reviewer, ACC Cardiovascular Team Section Leadership Council	None	None	None	None	None	None
Tina Shah	Michael E. DeBakey VA Medical Center, Baylor College of Medicine—Associate Program Director, Cardiology Fellowship Program	Content Reviewer, ACC Early Career Section Leadership Council	None	None	None	<ul style="list-style-type: none"> • Amgen† • Novartis† 	None	None

Chetan Shenoy	University of Minnesota—Assistant Professor of Medicine, Director of Advanced Cardiovascular Imaging Fellowship	Content Reviewer, Imaging Training Program Director	None	None	None	None	None	None
Chittur A. Sivaram	University of Oklahoma—Professor of Medicine (Cardiovascular Section)	Content Reviewer, ACC Lifelong Learning Oversight Committee	None	None	None	None	None	None
Michael A. Solomon	National Institutes of Health Clinical Center—Staff Clinician, Critical Care Medicine Department	Content Reviewer, ACC Competency Management Committee	None	None	None	None	None	None
Alfonso H. Waller	Rutgers New Jersey Medical School— Director of Advanced Cardiac Imaging	Content Reviewer, Multimodality Imaging Expertise	None	None	None	None	• Actelion	None
Steven Walling	Saint Francis Hospital and Medical Center— Lead Echocardiographer	Content Reviewer, Cardiovascular Sonograph Expertise	None	• Lantheus Medical Imaging*	None	None	None	None
Gaby Weissman	Medstar Heart and Vascular Institute, Georgetown University— Program Director Cardiovascular Disease Fellowship	Content Reviewer, ACC Cardiovascular Training Section Leadership Council; Cardiovascular Training Program Director, ACC Competency Management Committee	None	None	None	None	None	None

Eric S. Williams	Indiana University School of Medicine—Professor of Medicine (Cardiology)	Content Reviewer, ACC Competency Management Expertise	None	None	None	None	None	None
Janet F. Wyman	Henry Ford Medical Group—Manager, Center for Structural Heart Disease	Content Reviewer, ACC Lifelong Learning Oversight Committee	• Boston Scientific	None	None	None	None	None
William A. Zoghbi	Houston Methodist Hospital—Chair, Department of Cardiology, Elkins Family Distinguished Chair in Cardiac Health	Content Reviewer, Echocardiography Expertise	• Abbott Vascular • Siemens	• None	None	None	• GE Healthcare*	None

This table represents all healthcare relationships with industry and other entities by peer reviewers, including those not deemed to be relevant, at the time this document was under development. The table does not necessarily reflect relationships with industry at the time of publication. A person is deemed to have a significant interest in a business if the interest represents ownership of $\geq 5\%$ of the voting stock or share of the business entity, or ownership of $\geq \$5,000$ of the fair market value of the business entity; or if funds received by the person from the business entity exceed 5% of the person's gross income for the previous year. Relationships that exist with no financial benefit are also included for the purpose of transparency. Relationships in this table are modest unless otherwise noted. Please refer to <http://www.acc.org/guidelines/about-guidelines-and-clinical-documents/relationships-with-industry-policy> for definitions of disclosure categories or additional information about the ACCF Disclosure Policy for Writing Committees.

* Significant relationship.

† No financial benefit.

ACC indicates American College of Cardiology; AHA, American Heart Association; ASE, American Society of Echocardiography; COCATS, Core Cardiovascular Training Statement; ECMO, Extracorporeal Membrane Oxygenation; GE, General Electric; NHLBI, National Heart, Lung, and Blood Institute; NIH, National Institutes of Health; and VA, Veterans Affairs.