

Appendix A. Appropriate Use Criteria for Multimodality Imaging in the Assessment of Cardiac Structure and Function in Non-Valvular Heart Disease: Members of the Writing Group, Rating Panel, Indication Reviewers, and AUC Task Force—Relationships with Industry and Other Entities (Comprehensive)

Participant	Employment	Representing	Consultant	Speakers Bureau	Ownership/ Partnership/ Principal	Personal Research	Institutional, Organizational, or Other Financial Benefit	Expert Witness
Writing Group								
John U. Doherty, MD, FACC	Thomas Jefferson University—Professor of Medicine	ACC	None	None	None	None	None	None
Smadar Kort, MD, FACC	Stony Brook University Medical Center—Clinical Professor of Medicine	ASE	None	None	None	None	None	None
Roxana Mehran, MD, FACC	Mount Sinai Medical Center—Professor of Medicine	SCAI	<ul style="list-style-type: none"> • AstraZeneca Pharmaceuticals • Boston Scientific • Cardiovascular Systems Inc • Medscape • Merck & Co., Inc. • Shanghai Bracco Sine Pharmaceutical Corp. • The Medicines Company 	None	None	<ul style="list-style-type: none"> • Abbott Vascular* • AstraZeneca Pharmaceuticals* • AUM Cardiovascular* • Bayer Healthcare Pharmaceuticals* • Beth Israel Deaconess Medical Center* • Bristol-Myers Squibb* 	<ul style="list-style-type: none"> • Janssen Pharmaceuticals, Inc. (Executive Committee) • Osprey Medical (Executive Committee) • WebMD, (Interviews) • Wiley Blackwell Publishing Company, (Book Royalty) • SCAI, (Officer) 	None

Participant	Employment	Representing	Consultant	Speakers Bureau	Ownership/ Partnership/ Principal	Personal Research	Institutional, Organizational, or Other Financial Benefit	Expert Witness
Nicole M. Bhave, MD, FACC	University of Michigan School of Medicine– Cardiovascular Center, Assistant Professor	ACC	None	None	None	None	None	None
Dennis A. Calnon, MD, FACC, FASE, MASNC, FSCCT	Ohio Health Heart and Vascular Physicians–Riverside Methodist Hospital, Cardiac Imaging, Director	ASNC	• Navidea Biopharmaceuticals	None	None	None	None	None
Blase Carabello, MD, FACC	East Carolina University– Chief, Division of Cardiology	ACC	None	None	None	• Edwards (DSMB)*	None	None
John V. Conte, MD	Johns Hopkins School of Medicine, Division of Cardiac Surgery–Director of Mechanical Circulatory Support Professor of Surgery	STS	None	None	None	• Medtronic	• Medtronic (Surgical Advisory Board) • Medtronic‡ • Boston Scientific‡	None
Gregory J. Dehmer, MD, MACC, MSCAI, FACP, FAHA	Carilion Cardiovascular Institute–Director, Quality and Outcomes	N/A	• Member–FDA Circulatory System Devices Panel of the Medical Devices Advisory • Past President– Society for Cardiovascular Angiography and Interventions	None	None	None	None	None

Participant	Employment	Representing	Consultant	Speakers Bureau	Ownership/ Partnership/ Principal	Personal Research	Institutional, Organizational, or Other Financial Benefit	Expert Witness
Timm M. Dickfeld, MD, PhD	University of Maryland School of Medicine–Professor, Director of Electrophysiology Research	HRS	<ul style="list-style-type: none"> • Abbott† • Biosense • SJM 	None	None	<ul style="list-style-type: none"> • Biosense† • General Electric† 	<ul style="list-style-type: none"> • Impulse Dynamics (Event Adjudication Committee) • Siemens–ECG Reading† 	<ul style="list-style-type: none"> • Plaintiff, Perforation, 2015 • Plaintiff, SCD Case,2015
Dan Edmundowicz, MD, FACC	Temple University Hospital–Chief, Section of Cardiology, Vice Chair of Program Development, Professor of Medicine, Department of Medicine	ACC	None	None	None	None	None	None
Victor A. Ferrari, MD, FACC	Hospital of the University of Pennsylvania–Professor of Medicine; Associate Director, Cardiovascular Imaging	ACC	None	None	None	None	<ul style="list-style-type: none"> • Journal of Cardiovascular Magnetic Resonance (Officer)* 	None
Michael E. Hall, MD, MS, FACC, FAHA	University of Mississippi Medical Center–Assistant Professor, Department of Radiology, Physiology and Biophysics;	ACC	None	None	None	None	None	None
Brian Ghoshhajra, MD, MBA	Massachusetts General Hospital–Service Chief, Cardiovascular	SCCT	<ul style="list-style-type: none"> • Medtronic† • Siemens Healthcare 	None	None	None	None	None

Participant	Employment	Representing	Consultant	Speakers Bureau	Ownership/ Partnership/ Principal	Personal Research	Institutional, Organizational, or Other Financial Benefit	Expert Witness
	Imaging, Department of Radiology Program; Director, Cardiac Imaging Fellowship, Department of Radiology		• Research and Development Institutional Collaboration					
Praveen Mehrotra, MD, FACC, FASE	Thomas Jefferson University Hospital– Assistant Professor of Medicine, Echocardiography Director	ACC	None	None	None	None	None	None
Tasneem Z. Naqvi, MD, FACC, FASE	Mayo School of Medicine–Professor of Medicine, Mayo Clinic, Echocardiography Director; Department of Cardiovascular Disease; Consultant	ACC	None	None	None	• Medtronic* • St. Jude Foundation*	• Program Director, Advanced Echocardiography Fellowship* • American Society of Echocardiography (Board Member)	None
T. Brett Reece, MD, FAHA, FAATS	University of Colorado Cardiothoracic Surgery–Associate Professor, Cardiothoracic Surgery; Director, Comprehensive Thoracic Aortic Program	AATS	None	None	None	None	• Bard ‡ • Griols ‡	None
Randall C. Starling MD, MPH, FACC	Cleveland Clinic Foundation–Head of Heart Failure and Cardiac Transplant		• Medtronic • Novartis	None	• St. Jude Medical	• BioControl (PI)	None	None

Participant	Employment	Representing	Consultant	Speakers Bureau	Ownership/ Partnership/ Principal	Personal Research	Institutional, Organizational, or Other Financial Benefit	Expert Witness
	Medicine; Medical Director, Kaufman Center for Heart Failure; Staff Cardiologist, Robert and Suzanne Tomsich Department of Cardiovascular Medicine; Vice Chairman, Cardiovascular Medicine and Operations					<ul style="list-style-type: none"> • Cardiac Dimensions (PI)* • HeartWare (PI)* • Medtronic (PI) • Novartis (PI)† • St. Jude Medical (PI)* 		
Molly Szerlip, MD, FACC, FSCAI	Baylor Scott and White–The Heart Hospital Plano, Medical Director, Inpatient and Outpatient Valve Program -; Director, Structural Heart Fellowship	SCAI	<ul style="list-style-type: none"> • Medtronic • Edwards Life Sciences 	<ul style="list-style-type: none"> • Abiomed • Edwards Life Sciences 	None	<ul style="list-style-type: none"> • Medtronic 	<ul style="list-style-type: none"> • Edwards‡ • Medtronic‡ • Bayer‡ 	None
Wendy S. Tzou, MD, FACC	University of Colorado School of Medicine–Cardiac Electrophysiology Section, Division of Cardiology; Associate Professor of Medicine	AHA	<ul style="list-style-type: none"> • Abbott Laboratories • Biosense Webster • Boston Scientific • Medtronic 	None	None	None	None	None
John B. Wong, MD	Tufts University School of Medicine–Professor of Medicine	ACC	<ul style="list-style-type: none"> • Informed Medical Decisions Foundation: Healthwise • Annals of Internal Medicine (American 	None	None	<ul style="list-style-type: none"> • Patient-Centered Outreach Institute–Cardiothoracic Surgery Congenital Heart Disease and Pediatric 	<ul style="list-style-type: none"> • AMA Physician Consortium for Performance Improvement (Member, Co-Chair) 	None

Participant	Employment	Representing	Consultant	Speakers Bureau	Ownership/ Partnership/ Principal	Personal Research	Institutional, Organizational, or Other Financial Benefit	Expert Witness
			College of Physicians)			Cardiology Invasive CV Angio and Interventions Prevention Stable Ischemic Heart Disease (PI)†		
Reviewers								
Gurusher S. Panjra, MBBS, MD, FACC	George Washington University–Director, Heart Failure and Mechanical Support Program	ACC–Heart Failure and Transplant Section Leadership Council	None	• Amgen, Inc †	None	None	•Alynlyam ‡ •CVRx ‡	None
Uma Valeti, MBBS, FACC, MD	University of Minnesota–Staff	ACC–Heart Failure and Transplant Section Leadership Council	None	None	None	• Bayer–Noninvasive Imaging (Co-PI) •Cardiovascular (DSMB) • Global Genomics Group–Noninvasive Imaging (Co-PI) • Siemens–Noninvasive Imaging (Co-PI)†	None	None
Daniel S. Berman, MD, FACC	Cedars-Sinai Medical Center, Department of Imaging–Director, Cardiac Imaging	ACC–Imaging Council	• Cedars Sinai Medical Center–Software Royalties† • General Electric	None	None	• Heartflow† • Siemens Medical Solutions†	None	None

Participant	Employment	Representing	Consultant	Speakers Bureau	Ownership/ Partnership/ Principal	Personal Research	Institutional, Organizational, or Other Financial Benefit	Expert Witness
Warren J. Manning, MD, FACC, FASE	Beth Israel Deaconess Medical Center, Division of Cardiology– Professor of Medicine and Radiology	ASE	• Merck and Company	None	• General Electric†	• Philips Medical Systems– Noninvasive Imaging (Co-PI)†	• Samsung Electronics†	• Plaintiff, Endocarditis, 2016 • Plaintiff, Endocarditis, 2015
Sean G. Hughes, MD	Vanderbilt University Medical Center, Williamson Medical Center–Staff, Cardiologist	ASE	None	None	None	None	None	None
Nelson B. Schiller, MD, FACC	University of California, San Francisco– Professor of Medicine, Radiology, and Anesthesia	ASE	None	• General Electric Healthcare • Lantheus	None	None	None	• Plaintiff, Missed diagnosis of paraprosthetic leak, 2015
Harikrishna Tandri, MD, MBBS	Johns Hopkins Hospital– Co-Director, Arrhythmogenic Right Ventricular Dysplasia Program; Associate Professor of Medicine	HRS	• St. Jude Medical	None	None	None	None	None
Rajan A. G. Patel, MD, FACC, FAHA, FSCAI	University of Queensland–Senior Lecturer, John Ochsner Heart and Vascular Center, Ochsner Medical Center– Interventional Cardiology Section	SCAI	None	None	None	None	• Aastrom‡ • Abbott‡ • National Heart, Lung & Blood Institute‡ • American College of Cardiology (Imaging Committee) • SCAI Carotid	None

Participant	Employment	Representing	Consultant	Speakers Bureau	Ownership/ Partnership/ Principal	Personal Research	Institutional, Organizational, or Other Financial Benefit	Expert Witness
							Stent (Committee) • SCAI Publications (Committee)	
Jeffrey A. Brinker, MD, FACC	Johns Hopkins Hospital–Professor of Medicine	SCAI	None	None	None	None	None	None
Raymond Y. Kwong, MD	Brigham & Women's Hospital Medicine, Cardiovascular Division–Instructor of Medicine	SCMR	None	None	None	• Alynlam Pharmaceutical (PI)†	• Society for Cardiovascular Magnetic Resonance (Officer)	None
Andrew J. Powell, MD, FACC	Children's Hospital, Boston, Department of Cardiology– Associate in Cardiology, Associate Professor of Pediatrics	SCMR	None	None	None	None	None	None
Joseph Wu, MD, PhD, FACC,	Stanford University School of Medicine– Director, Stanford Cardiovascular Institute; Professor, Department of Medicine/ Cardiology	AHA	None	None	• Stem Cell Theranostics*	None	None	None
Harold Litt, MD, PhD, FACC	University of Pennsylvania– Associate Professor of Radiology; Chief, Cardiovascular Imaging Section, Department of Radiology; Director, Center for Advanced Computed Tomography Imaging	AHA	None	None	None	• American College of Radiology Imaging Network– Noninvasive Imaging (PI)† • Heartflow– Noninvasive Imaging (Co-PI)†	None	• Defendant, Chest mass imaging 2016

Participant	Employment	Representing	Consultant	Speakers Bureau	Ownership/ Partnership/ Principal	Personal Research	Institutional, Organizational, or Other Financial Benefit	Expert Witness
	Sciences; Fellowship Director, Cardiovascular Imaging Fellowship					• Siemens Medical Solutions - Noninvasive Imaging (Co-PI)†		
Thomas C. Gerber, MD, PhD, FACC	Mayo Clinic– Professor of Medicine and Radiology	AHA	None	None	None	None	• American Journal of Radiology (Officer) • Mayo Clinic Proceedings (Officer)	None
Amish Raval, MD, FACC	University of Wisconsin School of Medicine–Associate Professor	AHA	None	None	None	None	None	None
Marcelo F. DiCarli, MD	Brigham and Women’s Hospital– Chief of Nuclear Medicine; Harvard Medical School– Assistant Professor of Radiology and Medicine	SNMMI	None	None	None	•NHLBI T32HL094301 –Noninvasive Imaging (PI)† • Spectrum Dynamics – Noninvasive Imaging (Co-PI)†	•AHA Circulation: Cardiovascular Imaging (Editor) • NIH† • Spectrum Dynamics†	None

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* No financial benefit

† Significant relationship

‡ Clinical Trial Enroller

ACC = American College of Cardiology; AUC = Appropriate Use Criteria; AATS = American Association for Thoracic Surgery; AHA = American Heart Association; ASE = American Society of Echocardiography; ASNC = American Society for Nuclear Cardiology; HRS = Hearth Rhythm Society; PI = Principal Investigator; SCA = Society of Cardiovascular Anesthesiologists; SCAI = Society for Cardiovascular Angiography and Interventions; SCCT = Society of Cardiovascular Computed Tomography; SCMR = Society for Cardiovascular Magnetic Resonance; SNMMI = Society for Nuclear Medicine and Molecular Imaging; STS = Society of Thoracic Surgeons.