

ONLINE APPENDIX. Author Relationships With Industry and Other Entities (COMPREHENSIVE)—2018 ACC/HRS/NASCI/SCAI/SCCT Expert Consensus Document on Optimal Use of Ionizing Radiation in Cardiovascular Imaging: Best Practices for Safety and Effectiveness

Committee Member	Employment	Consultant	Speaker's Bureau	Ownership/ Partnership/ Principal	Personal Research	Institutional, Organizational or Other Financial Benefit	Expert Witness
John W. Hirshfeld, Jr. (Chair)	Hospital of the University of Pennsylvania Cardiac Catheterization Lab—Professor of Medicine	None	None	None	None	<ul style="list-style-type: none"> • NIH, ATTRACT Trial (DSMB)* • PLC Medical Systems RenalGard Trial (DSMB) 	None
Victor A. Ferrari (Co-Chair)	Hospital of the University of Pennsylvania— Professor of Medicine and Radiology	None	None	None	<ul style="list-style-type: none"> • NHLBI/NIH (DSMB)* 	<ul style="list-style-type: none"> • Journal of Cardiovascular Magnetic Resonance* • SCAI* 	None
Frank M. Bengel	Medizinische Hochschule Hannover— Direktor, Klinik Fur Nuklearmedizin	<ul style="list-style-type: none"> • GE Healthcare • Mallinckrodt • Siemens Medical Solutions 	None	None	<ul style="list-style-type: none"> • Mallinckrodt† • Seimens Medical Solutions† 	None	None
Lisa Bergersen	Boston Children's Hospital— Associate in Cardiology; Harvard Medical School—Associate Professor of Pediatrics	<ul style="list-style-type: none"> • 480 Biomedical Inc. 	None	None	None	None	None
Charles E. Chambers	Penn State Milton S. Hershey Medical Center— Professor of Medicine & Radiology	None	None	None	None	None	None
Andrew J. Einstein	Columbia	<ul style="list-style-type: none"> • International 	<ul style="list-style-type: none"> • Spectrum 	None	<ul style="list-style-type: none"> • GE Healthcare† 	<ul style="list-style-type: none"> • ASNC* 	None

Committee Member	Employment	Consultant	Speaker's Bureau	Ownership/ Partnership/ Principal	Personal Research	Institutional, Organizational or Other Financial Benefit	Expert Witness
	University Medical Center — Associate Professor of Medicine (Radiology)	Atomic Energy Agency† • Kyowa Hacco Kirin Pharma • Radiation Effects Research Foundation (Hiroshima Japan)	Dynamics		• Philips Medical Systems† • Toshiba America Medical Systems†	• Journal of the American College of Cardiology Imaging* • Journal of Cardiovascular Computed Tomography* • Journal of Nuclear Cardiology*	
Mark J. Eisenberg	Jewish General Hospital McGill University— Professor of Medicine	None	• Pfizer	None	• CIHR† • Eli Lilly/ Canadien Heart Research Center† • FRQS† • HSFC† • LDI Clinical Research Pilot Project Funding Initiative† • Pfizer†	None	None
Mark A. Fogel	Children's Hospital of Philadelphia Division of Cardiology – Associate Professor of Pediatrics, Cardiology & Radiology	None	None	None	• AMAG Pharmaceuticals • Edwards Scientific	• Cooley's Anemia Foundation • Kerios • NIH† • Thalasemia Society	None
Thomas C. Gerber	Mayo Clinic Rochester— Professor of Medicine and Radiology	None	None	None	• NIH, RESCUE Trial*	• American Journal of Radiology* • Mayo Clinic Proceedings* •	None
David E. Haines	William	None	None	• nContact	• ARCA	None	None

Committee Member	Employment	Consultant	Speaker's Bureau	Ownership/ Partnership/ Principal	Personal Research	Institutional, Organizational or Other Financial Benefit	Expert Witness
	Beaumont Hospital— Director, Heart Rhythm Center				Pharmaceutical* • Boston Scientific • Cardiofocus • Medtronic • Toray†		
Warren K. Laskey	University of New Mexico School of Medicine— Professor of Medicine; Chief, Division of Cardiology	None	None	None	None	None	None
Marian C. Limacher	University of Florida— Professor of Medicine, Division of Cardiovascular Medicine	None	None	None	None	• NIH†	None
Kenneth J. Nichols	Northwell Health, Division of Nuclear Medicine and Molecular Imaging—Senior Physicist; Hotstra University— Professor of Radiology	• Syntermed Inc†	None	None	None	None	None
Daniel A. Pryma	Perelman School of Medicine at the University of Pennsylvania— Associate Professor of Radiology & Radiation	None	None	None	• Advanced Accelerator Applications* • Bayer Healthcare Pharmaceuticals* • Progenics Pharmaceuticals* • Siemens*	None	None

Committee Member	Employment	Consultant	Speaker's Bureau	Ownership/ Partnership/ Principal	Personal Research	Institutional, Organizational or Other Financial Benefit	Expert Witness
	Director Interventional Cardiology; Assistant Professor; CCOR Group Investigator						
Louis K. Wagner	University of Texas/Houston Medical School Department of Radiology— Professor	None	None	None	None	• Partners in Radiation Management†	None
L. Samuel Wann	University of Wisconsin, Madison and Medical College of Wisconsin, Milwaukee – Clinical Professor of Medicine	<ul style="list-style-type: none"> • Asetellas Pharmaceutical • United Healthcare 	None	None	• Janssen Pharmaceutical	None	None

This table represents all relationships of committee members with industry and other entities that were reported by authors, including those not deemed to be relevant to this document, 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 ≥5% of the voting stock or share of the business entity, or ownership of ≥\$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.

* No financial benefit.

† Significant relationship.

ASNC = American Society of Nuclear Cardiology; ATTRACT, Acute Venous Thrombosis:Thrombus Removal with Adjunctive Catheter-Directed Thrombolysis; DSMB, Data Safety Monitoring Board; NHLBI, National Heart Lung and Blood Institute; NIH, National Institutes of Health; SCAI, Society of Cardiovascular Angiography and Interventions