

**ONLINE APPENDIX. AUTHOR RELATIONSHIPS WITH INDUSTRY AND OTHER ENTITIES (COMPREHENSIVE)—2015 ACC/AHA/HRS
ADVANCED TRAINING STATEMENT ON CLINICAL CARDIAC ELECTROPHYSIOLOGY (A REVISION OF THE ACC/AHA 2006 UPDATE OF
THE CLINICAL COMPETENCE STATEMENT ON INVASIVE ELECTROPHYSIOLOGY STUDIES, CATHETER ABLATION, AND
CARDIOVERSION)**

Committee Member	Employment	Consultant	Speakers Bureau	Ownership/ Partnership/ Principal	Personal Research	Institutional/ Organizational or Other Financial Benefit	Expert Witness
Douglas P. Zipes (Chair)	Indiana University—Distinguished Professor of Medicine, Pharmacology, and Toxicology; Director, Division of Cardiology	<ul style="list-style-type: none"> • Elsevier* 	None	None	None	None	<ul style="list-style-type: none"> • Plaintiff, sudden death, 2015* • Plaintiff, sudden death, 2014* • Defendant, patent issue, 2014* • Plaintiff, sudden death, 2014*
Hugh Calkins (Vice Chair)	Johns Hopkins Hospital—Professor of Medicine; Director of Electrophysiology	<ul style="list-style-type: none"> • Atricure • Boehringer Ingelheim • Daiichi-Sankyo • Medtronic • St. Jude Medical* 	None	None	None	<ul style="list-style-type: none"> • Boston Scientific* • St. Jude Medical* 	<ul style="list-style-type: none"> • Defendant, sudden cardiac death, 2015
James P. Daubert	Duke University Medical Center—Professor of Medicine; Director of Electrophysiology	<ul style="list-style-type: none"> • Biosense Webster • Boston Scientific • Cardiofocus • Gilead Sciences • Medtronic* 	None	None	<ul style="list-style-type: none"> • Biosense Webster* • Boston Scientific* • Gilead Sciences (DSMB) • Gilead Sciences* • Medtronic* • NHLBI* • Northwestern University (DSMB) • Vytronus 	<ul style="list-style-type: none"> • Biotronik* • Boston Scientific* • Gilead Sciences* • Medtronic* • St. Jude Medical* 	<ul style="list-style-type: none"> • Defendant, long QT/ cardiac arrest, 2013

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Kenneth A. Ellenbogen	VCU Medical Center—Director, Clinical Electrophysiology Laboratory	<ul style="list-style-type: none"> • AHA • Atricure • Biosense Webster • Biotronik • Boston Scientific* • Cameron Health • Daiichi-Sankyo • Heart Rhythm Society • Janssen Pharmaceuticals • Medtronic* • Sentra Heart • St. Jude Medical • CardioNet • Sanofi-aventis 	<ul style="list-style-type: none"> • Biotronik* • Boston Scientific* • Medtronic* • St. Jude Medical* 	None	(DSMB) <ul style="list-style-type: none"> • Biosense Webster* • Boston Scientific* • Medtronic* • NIH* • Sanofi-aventis* 	<ul style="list-style-type: none"> • Biosense Webster* • Boston Scientific* • Medtronic* • St. Jude Medical* • Sanofi-aventis 	<ul style="list-style-type: none"> • Defendant, complication of ventricular arrhythmia ablation, 2015 • Plaintiff, death from lead extraction, 2015 • Defendant, atrial esophageal fistula, 2014 • Plaintiff, atrial esophageal fistula, 2014 • Defendant, perforation of the heart, 2014 • Plaintiff, pacemaker and ICD complications, 2014
Michael E. Field	University of Wisconsin School of Medicine and Public Health—Assistant Professor of Medicine, Director of Cardiac Arrhythmia Service	None	None	None	None	None	None
John D. Fisher	Montefiore Medical Center—Director, Cardiac Arrhythmia Service	<ul style="list-style-type: none"> • Medtronic* 	None	None	None	<ul style="list-style-type: none"> • ACGME[†] • Biotronik* • Boston Scientific* • Medtronic* • St Jude Medical* 	<ul style="list-style-type: none"> • Third Party, physician error and mortality, 2014

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Richard Ira Fogel	The Care Group, LLC—Consulting Electrophysiologist	None	None	None	None	<ul style="list-style-type: none"> • Heart Rhythm Society[†] • St. Vincent Medical Group • St Vincent Health/ Ascension Health[†] 	None
David S. Frankel	Hospital of the University of Pennsylvania—Assistant Professor of Medicine; Associate Director, Electrophysiology Fellowship Program	<ul style="list-style-type: none"> • Cardionet* • Medtronic • St. Jude Medical 	None	None	None	<ul style="list-style-type: none"> • Medtronic • St. Jude Medical 	None
Anurag Gupta	Cardiovascular Consultants Medical Group/Stanford Health Care—Cardiac Electrophysiologist	None	None	None	None	None	None
Julia H. Indik	University of Arizona, Sarver Heart Center —Professor of Medicine	None	None	None	• NIH	• Boston Scientific [†]	None
Fred M. Kusumoto	Mayo Clinic Florida—Director, Heart Rhythm Services	None	None	None	None	None	None
Bruce D. Lindsay	Cleveland Clinic Foundation—Professor of Cardiology	<ul style="list-style-type: none"> • Biosense Webster • Boston Scientific • Medtronic • CardioInsight 	None	None	None	<ul style="list-style-type: none"> • Boston Scientific* • Medtronic* • St. Jude Medical* 	None
Joseph E. Marine	Johns Hopkins University School of Medicine—Associate Professor of Medicine; Associate Director of Electrophysiology	None	None	None	None	None	None
Laxmi S. Mehta	The Ohio State University Medical Center—Associate Professor of Medicine	None	None	None	None	• AHA	None

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Lisa A. Mendes	Vanderbilt Heart and Vascular Institute—Associate Professor of Medicine; Director, CV Medicine Fellowship Program	None	None	None	None	None	None
John M. Miller	Indiana University School of Medicine—Professor of Medicine; Director, Clinical Cardiac Electrophysiology	<ul style="list-style-type: none"> • Biosense Webster • Biotronik • Boston Scientific • Medtronic • St. Jude Medical • Topera Medical 	None	None	None	<ul style="list-style-type: none"> • Biosense Webster* • Biotronik* • Boston Scientific* • Medtronic* 	None
Thomas M. Munger	Mayo Clinic—Assistant Professor of Medicine	None	None	None	None	None	None
William H. Sauer	University of Colorado School of Medicine—Associate Professor of Medicine; Director, Cardiac Electrophysiology	<ul style="list-style-type: none"> • Biosense Webster • Boston Scientific • Medtronic • St. Jude Medical 	None	None	None	None	None
Win-Kuang Shen	Mayo Clinic Arizona—Professor of Medicine; Chair, Division of Cardiovascular Diseases	None	None	None	None	None	None
William G. Stevenson	Brigham and Women's Hospital—Director, Clinical Cardiac Electrophysiology Program	<ul style="list-style-type: none"> • St. Jude Medical 	None	None	<ul style="list-style-type: none"> • CIHR[†] • DCRI[†] • NIH[†] 	<ul style="list-style-type: none"> • Biosense Webster[†] • Circulation (Editor)* 	None
Wilber W. Su	Banner-University Medical Center, Cavanagh Heart Center—Director, Electrophysiology	<ul style="list-style-type: none"> • Medtronic* • St. Jude Medical 	None	None	None	None	None

Committee Member	Employment	Consultant	Speakers Bureau	Ownership/ Partnership/ Principal	Personal Research	Institutional/ Organizational or Other Financial Benefit	Expert Witness
Cynthia M. Tracy	George Washington University— Professor of Medicine; Associate Director Division of Cardiology, Director of Cardiac Services	None	None	None	• NIH	• Cheney Cardiovascular Institute [†]	None
Angela Tsiperfal	Stanford Health Care—Nurse Practitioner, Stanford Arrhythmia Service	• Medtronic	None	None	None	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 $\geq 5\%$ 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 ACC Disclosure Policy for Writing Committees.

*Significant relationship.

[†]No financial benefit.

ACGME indicates Accreditation Council for Graduate Medical Education; AHA, American Heart Association; CIHR, Canadian Institutes for Health Research; DCRI, Duke Clinical Research Institute; DSMB, data safety monitoring board; NHLBI, National Heart, Lung, and Blood Institute; and NIH, National Institutes of Health.