

Appropriate Use Criteria for Coronary Revascularization in Patients with Stable Ischemic Heart Disease: Members of the Writing Group, Rating Panel, Indication Reviewers, and AUC Task Force—Relationships with Industry and Other Entities (Comprehensive)

Note: A standard exemption to the ACC RWI policy is extended to Appropriate Use Criteria writing groups, since they do not make recommendations but rather prepare background materials and typical clinical scenarios/indications that are rated independently by a separate panel of experts.

Participant	Employment	Consultant	Speaker's Bureau	Ownership/ Partnership/ Principal	Personal Research	Institutional, Organization-al, or Other Financial Benefit	Expert Witness
Writing Group							
Manesh R. Patel (Chair)	Duke University Health System, Duke Clinical Research Institute — Associate Professor of Medicine, Director Interventional Cardiology and Catheterization Labs	Bayer Healthcare† • Genzyme • Medscape - theheart.org • Merck • Duke CME	None	None	<ul style="list-style-type: none"> • AHQR (Co-PI) • Astra Zeneca – General Cardiology (Co-PI)† • Jansen (Co-PI) • Johnson & Johnson – Arrhythmias & Clinical EP (Co-PI)† • Maquet (Co-PI) • Nat'l Heart Lung & Blood Inst - Noninvasive Imaging (Co-PI)† • PCORI (Co-PI) Nat'l Heart Lung & Blood Inst - Noninvasive Imaging (PI) * 	None	None
John H. Calhoon	University of Texas Health Science Center at San Antonio Department of Cardiothoracic Surgery, Heart and Vascular Institute Director —Professor and Chair, Presidents Council Chair for Excellence in Surgery	None	None	None	None	None	None
Gregory J. Dehmer	Baylor Scott & White - Temple Memorial, Texas A&M Health Science Center College of Medicine, Central Texas Division —Clinical	<ul style="list-style-type: none"> • Member - FDA Circulatory System Devices Panel of the Medical Devices Advisory • Past President - Society 	None	None	None	• Baylor Scott & White Health†	None

Participant	Employment	Consultant	Speaker's Bureau	Ownership/ Partnership/ Principal	Personal Research	Institutional, Organization-al, or Other Financial Benefit	Expert Witness
	Thoracic Surgery, Duke University — Professor of Surgery, Division Chief						
Rating Panel							
James C. Blankenship	Geisinger Medical Center, Division of Cardiology — Staff Physician, Director, Cardiac Catheterization Laboratory	•US Dept Health & Human Services	None	None	<ul style="list-style-type: none"> • Abbott Vascular, Inc - Invasive CV Angio & Interventions (Co-PI)* • American Board of Internal Medicine - Invasive CV Angio & Interventions (PI)* • Am College Cardiology to AMA Relative Value Update Committee (PI)* • AstraZeneca - Invasive CV Angio & Interventions (Co-PI)* • Boston Scientific - Invasive CV Angio & Interventions (Co-PI)* • GlaxoSmith-Kline – Acute Coronary Syndromes* • Hamilton Health Sciences – Acute Coronary Syndromes (Co-PI)* • Medinal LTD - Acute Coronary Syndromes (Co-PI)** • Orexigen Therapeutics/Takeda - Acute Coronary Syndromes (Co-PI)** • Society of Angiography & Interventions -Invasive CV Angio & 	•Geisinger Medical Center†	None

Participant	Employment	Consultant	Speaker's Bureau	Ownership/ Partnership/ Principal	Personal Research	Institutional, Organization-al, or Other Financial Benefit	Expert Witness
					Interventions (PI)* • Stentys, Inc - Acute Coronary Syndromes (Co-PI)* • St. Jude Medical – Congenital Heart Disease & Pediatric Cardiology (Co-PI)* • Takeda Pharmaceutic-als – Acute Coronary Syndromes (Co-PI)*		
Alfred A. Bove	Temple University, Lewis Katz School of Medicine, Heart and Vascular —Professor Emeritus	<ul style="list-style-type: none"> • Elsevier Publishing Co • Insight Telehealth Inc* • Merck Manual • Underwater Medicine Associates 	None	• Insight Telehealth, Inc*	• Merck Schering Plough – Prevention (Co-PI) †	None	None
Steven M. Bradley	VA Eastern Colorado Health Care System, Division of Cardiology at the University of Colorado — Staff Cardiologist, Assistant Professor of Medicine	<ul style="list-style-type: none"> • Heart Journal † • Workgroup for the development, reevaluation & Implementation of Hospital Outcome/ Efficiency Measures, Centers for Medicare & Medicaid Services 	None	None	<ul style="list-style-type: none"> • Collaborative Care to Alleviate Symptoms & Adjust to Illness Study (DSMB)* • Univ of Colorado Dept of Medicine Early Career Scholars Program – Stable Ischemic Heart Disease (PI)* • VA HSR&D Career Development Award (HSR&D-CDA2 10-199) – Other Invasive CV Angio & Interventions (PI) † • VA HSR&D Investigator Initiated Project (HSR&D IIR 13-079-2; 1 I01 HX001276-01) • VA HSR&D Investigator Initiated Project (HSR&D IIR 14-338-3; 1 I01 HX001778-01A2) - Invasive CV Angio & Interventions 		None

Participant	Employment	Consultant	Speaker's Bureau	Ownership/ Partnership/ Principal	Personal Research	Institutional, Organization-al, or Other Financial Benefit	Expert Witness
					(PI)* • VA HSR&D Investigator Initiated Project (HSR&D IIR 15-139) – Arrhythmias & Clinical EP (PI)* • VA QuERI Program Project (HX 15-019) – Stable Ischemic Heart Disease (PI)*		
Larry S. Dean	Medicine Regional Heart Center University of Washington School of Medicine, Professor of Medicine and Surgery, Director	•Philips Medical	None	None	•Edwards Life Sciences – Invasive CV Angio & Interventions (Co-PI)†	•Emageon	None
Peter L. Duffy	First Health of the Carolinas, Reid Heart Institute/Moore Regional Hospital — Director of Quality for the Cardiovascular Service Line	None	•Volcano Corp†	None	None	•Janssen Research & Development † • Medinol LTD ‡ • Thrombosis Research Institute ‡	None
T. Bruce Ferguson, Jr.,	East Carolina Heart Institute, East Carolina University, Department of Cardiovascular Sciences, Cardiothoracic Surgery — Professor of Thoracic Surgery	None	None	•RFPi, LLC *	•Novadaq Technologies - Cardiothoracic Surgery (Co-PI)†	•NIH	None
Frederick L. Grover	University of Colorado, Department of Cardiothoracic Surgery — Professor of Cardiothoracic Surgery	• American College of Cardiology Program Committee* •National Quality Forum Surgery Standing Committee* •Stanford Clinical Excellence Research Center, America's Most Valuable Care Project – Cardiothoracic Surgery (Co-PI)† • Somalution (Co-PI)	None	None	• ACC – Stable Ischemic Heart Disease (PI) * • ACC – Acute Coronary Syndromes (PI)* • Acert Steering Committee – Cardiothoracic Surgery (PI) * • Society of Thoracic Surgeons – Cardiothoracic Surgery (PI)* •STS/ACCF TVT Steering Committee – Cardiothoracic	None	None

Participant	Employment	Consultant	Speaker's Bureau	Ownership/ Partnership/ Principal	Personal Research	Institutional, Organization-al, or Other Financial Benefit	Expert Witness
					Surgery Invasive CV Angio & Interventions (PI)*		
Robert A. Guyton	Emory University School of Medicine, Division of Cardiothoracic Surgery, Department of Surgery, Thoracic Surgery Residency Program — Chief of Cardiothoracic Surgery, Professor of Surgery Director	•Medtronic†	None	None	•NIH – Cardiothoracic Surgery (PI)*	None	None
Mark A. Hlatky	Stanford University School of Medicine, Cardiovascular Medicine, Health Services Research — Professor of Health Research and Policy, Professor of Medicine	•Acumen† •Genentech, Inc •American College of Cardiology† •Blue Cross Blue Shield Center for Effectiveness Evaluation†	None	None	•George Institute – General Cardiology (PI) •Heartflow – Noninvasive Imaging (Co-PI)† •National Heart Lung & Blood Institute (DSMB) •Sanofi- Aventis – General Cardiology (Co-PI)	None	None
Harold L. Lazar	Boston University School of Medicine, Cardiothoracic Research Program — Director Professor of Cardiothoracic Surgery	None	None	None	•Eli Lilly – Cardiothoracic Surgery (PI) •Paraxel International† (DSMB)	•Journal of Cardiac Surgery Wiley - Blackwell†	None
Vera H. Rigolin	Northwestern University Feinberg School of Medicine, Cardiology — Professor	None	None	None	None	•Pfizer†	None
Geoffrey A. Rose	Division of Cardiology, Sanger Heart and Vascular Institute — Chief	None	None	None	None	•Abbott Laboratories‡ •Intersocietal Accreditation Commission (Officer)* •Medtronic	None
Richard J. Shemin	Ronald Reagan UCLA Medical Center,	•Atricure •Edwards Lifesciences	None	None	None	None	•Defendant, Mitral Valve

Participant	Employment	Consultant	Speaker's Bureau	Ownership/ Partnership/ Principal	Personal Research	Institutional, Organization-al, or Other Financial Benefit	Expert Witness
	Cardiovascular Center — Director of Cardiac Quality, Robert and Kelly Day Professor, Chief of Cardiothoracic Surgery, Executive Vice Chair of Surgery	• Sorin Group					Malpractice, 2016
Jacqueline E. Tamis-Holland	Saint Luke's Hospital, Icahn School of Medicine at Mount Sinai Hospital Mount Sinai — Director, Women's Heart NY, Assistant Professor of Medicine, Director, Interventional Cardiology Fellowship	None	None	None	• The NGS-PREDICT Study- Stable Ischemic Heart Disease (PI) * • ISCHEMIA Trial- General Cardiology Cardiothoracic Surgery Invasive CV Angio & Interventions (PI)† • NIH‡	•Interventional Cardiology Fellowship, Program Director* • Women' Heart NY†	None
Carl L. Tommaso	Rush Medical College in Chicago, Skokie Illinois Hospital, part of the Northshore University Health System — Director of the Cardiac Catheterization Laboratory, Associate Professor of Medicine	• SCAI*	None	None	None	None	
L. Samuel Wann	Columbia St. Mary's Healthcare — Clinical Cardiologist, Medical Director, Heart Failure Program	• United Healthcare	None	None	None	None	None
John B. Wong	Tufts University School of Medicine — Chief, Division of Clinical Decision Making, Primary Care Physician, Principal Investigator, Institute for Clinical Research and Health Policy Studies, Professor	• American College of Physicians • Informed Medical Decisions Foundation	None	None	• Patient-Centered Outcome Research Institute – Cardiothoracic Surgery Congenital Heart Disease & Pediatric Cardiology Invasive CV Angio & Interventions Prevention Stable Ischemic Heart Disease(PI)†	• AMA Physician Consortium for Performance Improvement*	None

Participant	Employment	Consultant	Speaker's Bureau	Ownership/ Partnership/ Principal	Personal Research	Institutional, Organization-al, or Other Financial Benefit	Expert Witness
Reviewers							
Jeffrey L. Anderson	Intermountain Medical Center — Associate Chief of Cardiology	<ul style="list-style-type: none"> • Medicines Company • Sanofi-Aventis 	None	None	<ul style="list-style-type: none"> • Academic Research Group (DSMB) • Harvard – TIMI - 48,51,52, 60 Studies (DSMB) • ICON Clinical Research • NIH - COAG Study (PI)* • NIH - GIFT Study (PI)* • NIH - ISCHEMIA Study (DSMB) * 		None
Jeffrey A. Brinker	Johns Hopkins Hospital—Professor of Medicine	None	None	None	None	None	None
Alexandru I. Costea	University of Cincinnati Medical Center—Associate Professor	None	<ul style="list-style-type: none"> • Biotronik 	None	None	<ul style="list-style-type: none"> • Boston Scientific * • Multicenter Trial industry sponsored * • NIH ‡ 	None
Ali E. Denktas	Baylor College of Medicine—Assistant Professor	None	None	None	<ul style="list-style-type: none"> • Astra Zeneca – General Cardiology (PI) • Edwards – Invasive CV Angio & Interventions (PI)* 	<ul style="list-style-type: none"> • Astra Zeneca ‡ 	None
Lloyd W. Klein	Melrose Park—Professor of Medicine	None	None	None	None	None	None
Frederick G. Kushner	Tulane University Medical Center, Heart Clinic of Louisiana—Clinical Professor, Medical Director	None	None	None	None	None	None
Glenn N. Levine	Baylor College of Medicine, Cardiology—Professor	None	None	None	None	None	<ul style="list-style-type: none"> • Defendant, Hospital Death, 2016 • Defendant, Catheterization Laboratory Procedure, 2016

Participant	Employment	Consultant	Speaker's Bureau	Ownership/ Partnership/ Principal	Personal Research	Institutional, Organization-al, or Other Financial Benefit	Expert Witness
	Medical Center, Non-Invasive Cardiology— Medical Director						
Robert C. Stoler	Cardiology Consultants of Texas—Director of Cardiac Catheterization Laboratory	<ul style="list-style-type: none"> • Arrow • Boston Scientific • Medtronic † 	None	None	None	<ul style="list-style-type: none"> • Baylor Heart & Vascular Hospital† • Abbott Laboratories‡ • Boston Scientific‡ • Medtronic‡ • Tendyne‡ 	None
Todd C. Villines	Cardiology Service at Walter Reed Army Medical Center— Co-Director of Cardiovascular Computed Tomography and Assistant Chief	<ul style="list-style-type: none"> • Boehringer Ingelheim Pharmaceutical† 	None	None	None	None	None
David H. Wiener	Jefferson Medical College, Jefferson Heart Institute—Professor of Medicine	None	None	None	None	None	None
Appropriate Use Criteria Task Force							
Steven R. Bailey	University of Texas Health Sciences Center —Chair, Division of Cardiology, Professor of Medicine and Radiology, Janey Briscoe Distinguished Chair	None	None	None	None	<ul style="list-style-type: none"> • Edwards‡ 	None
Nicole Bhave	University of Michigan Cardiovascular Center, Department of Internal Medicine, Division of Cardiovascular Medicine—Clinical Assistant Professor	None	None	None	None	None	None
Alan S. Brown	Midwest Heart Disease Prevention Center, Advocate Lutheran General Hospital— Director, Division of Cardiology— Medical Director	<ul style="list-style-type: none"> • Aksea • Amgen, Inc† • Astra Zeneca • Kastle • Regeneron† 	None	None	None	<ul style="list-style-type: none"> • American Society for Preventative Cardiology* • Astra Zeneca/Cleveland Clinic‡ • National Lipid Association, Officer* 	None

Participant	Employment	Consultant	Speaker's Bureau	Ownership/ Partnership/ Principal	Personal Research	Institutional, Organization-al, or Other Financial Benefit	Expert Witness
Stacie L. Daugherty	University of Colorado School of Medicine, Division of Cardiology, Department of Medicine — Associate Professor	None	None	None	<ul style="list-style-type: none"> American Heart Association - General Cardiology (PI)† NHLBI Blair RO1 – General Cardiology (PI) NHLBI Award (PI)† 	None	None
Gregory J. Dehmer	Baylor Scott & White, Central Texas Division, Cardiovascular Services Health — Medical Director	<ul style="list-style-type: none"> Member - FDA Circulatory System Devices Panel of the Medical Devices Advisory Past President - Society for Cardiovascular Angiography & Interventions* 	None	None	None	<ul style="list-style-type: none"> Baylor Scott & White Health† 	None
Milind Y. Desai	Cleveland Clinic, Clinical Investigations, Heart and Vascular Institute — Associate Director	None	None	None	None	None	None
John U. Doherty	Thomas Jefferson University, Jefferson Medical College — Professor of Medicine	None	None	None	None	None	None
Claire Duvernoy	University of Michigan Health System, Division of Cardiology — Cardiology Section Chief	None	None	None	None	<ul style="list-style-type: none"> VA Cooperative Studies Program* 	None
Linda D. Gillam	Morristown Medical Center, Department of Cardiovascular Medicine – Chair		None	None	<ul style="list-style-type: none"> Bracco – Noninvasive Imaging (Co-PI)* Edwards Lifesciences – Cardiothoracic Surgery (Co-PI)* Medtronic - Valvular Heart Disease(Co-PI)* 	<ul style="list-style-type: none"> Abbott Vascular‡ Bracco ‡ Circulation Imaging, Officer National Board of Echocardiography, Officer* 	None
Robert C. Hendel	Miami University School of Medicine, Division of Cardiology — Director of Cardiac Imaging and Outpatient Services	<ul style="list-style-type: none"> Astellias Pharma† 	None	None	None	None	None

Participant	Employment	Consultant	Speaker's Bureau	Ownership/ Partnership/ Principal	Personal Research	Institutional, Organization-al, or Other Financial Benefit	Expert Witness
L. Samuel Wann	Columbia St. Mary's Healthcare — Staff Cardiologist	• United Healthcare	None	None	None	None	None
David Winchester	University of Florida, Division of Cardiology — Assistant Professor of Medicine	None	None	None	• NHLBI ISCHEMIA Trial – General Cardiology (PI)*	• Alachua County Medical Society – Board of Directors* • Florida Chapter of ACC – Board of Directors* • Roche • Society of Cardiovascular Patient Care – Officer*	None
Joseph M. Allen	American College of Cardiology – Team Leader, Clinical Policy and Pathways	None	None	None	None	None	None

This table represents relevant relationships of participants with industry and other entities that were reported by reviewers 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.

no financial benefit
significant relationship