

CURRICULUM VITAE

ROBERT OGDEN BONOW, MD, MS

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Chicago, Illinois 60611
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Date of Birth: March 11, 1947

Place of Birth: Camden, New Jersey, U.S.A.

Marital Status: Married: Patricia Jeanne Hitchens September 12, 1982
Children: Robert Hitchens Bonow, M.D. July 18, 1984
Samuel Crawford Bonow May 12, 1988

Education: Lehigh University, Bethlehem, PA
Degree: B.S., *magna cum laude*, Chemical Engineering 1965-1969
University of Pennsylvania School of Medicine, Philadelphia, PA
Degree: M.D. 1969-1973
Northwestern University, Evanston, IL
Degree: M.S., Healthcare Quality and Patient Safety 2009-2012

Postgraduate Training: Intern in Medicine, Hospital of the University of Pennsylvania
Philadelphia, Pennsylvania 1973-1974
Resident in Medicine, Hospital of the University of Pennsylvania
Philadelphia, Pennsylvania 1974-1976
Clinical Associate, Cardiology Branch
National Heart, Lung, and Blood Institute
Bethesda, Maryland 1976-1979

Board Certification: Diplomate, National Board of Medical Examiners 1974
Diplomate, American Board of Internal Medicine 1976
Diplomate, American Board of Cardiovascular Disease 1980

Medical Licensure: Commonwealth of Pennsylvania 1974-present
State of Illinois 1992-present

Academic Appointments: National Heart, Lung, and Blood Institute
Division of Intramural Research
Senior Investigator, Cardiology Branch 1979-1992
Chief, Nuclear Cardiology Section, Cardiology Branch 1980-1992
Deputy Chief, Cardiology Branch 1989-1992
Northwestern University Feinberg School of Medicine
Department of Medicine
Goldberg Distinguished Professor of Cardiology 1992-present
Chief, Division of Cardiology, Department of Medicine 1992-2011
Vice-Chairman, Department of Medicine 2008-present
Director, Center for Cardiovascular Innovation 2008-present

Hospital Appointments: Clinical Center, National Institutes of Health, Bethesda, MD
Attending Physician, Cardiology Branch, NHLBI 1979-1992
Northwestern Memorial Hospital, Chicago, IL
Attending Physician, Department of Medicine 1992-present
Chief, Division of Cardiology, Department of Medicine 1992-2011
Co-Director, Bluhm Cardiovascular Institute 2004-2009
VA Lakeside Medical Center, Chicago, IL
Attending Physician, Department of Medicine 1993-2003
Evanston Hospital, Evanston, IL
Attending Physician, Department of Medicine 1994-2009

Visiting Professorships:

University of Antwerp, Antwerp, Belgium	December 7, 1982
Harvard Medical School, Beth Israel Hospital, Boston, MA	February 16-17, 1984
University of Alabama School of Medicine, Birmingham, AL	February 2, 1985
University of Lisbon Faculty of Medicine, Lisbon, Portugal	October 24-25, 1986
Mayo Clinic, Rochester, MN	July 29-30, 1987
University of Toronto, Toronto, ON	March 8-9, 1988
University of Pittsburgh School of Medicine, Pittsburgh, PA	February 23-24, 1989
University of Naples, Naples, Italy	June 6-8, 1989
Hahnemann University, Philadelphia, PA	October 12, 1989
Wayne State University School of Medicine, Detroit, MI	January 10, 1991
University of Toronto, Toronto, ON	May 14-15, 1991
Mount Sinai Medical Center, New York, NY	November 25, 1991
Pfizer Visiting Professor, Yale University, New Haven, CT	January 15-17, 1992
Mallinckrodt Inst of Radiology, Washington University, St. Louis, MO	February 10, 1992
Howard Gilman Foundation Visiting Scholar, New York Hospital-Cornell University Medical Center, New York, NY	September 17-18, 1992
Krannert Institute of Cardiology, Indiana University, Indianapolis, IN	February 14, 1994
University of Iowa, Iowa City, IA	February 23-24, 1994
University of Cincinnati, Cincinnati, OH	May 15, 1995
University of Texas, Houston, TX	November 2, 1995
Cleveland Clinic Foundation, Cleveland, OH	December 15, 1995
Mayo Clinic, Rochester, MN	April 30-May 2, 1997
Pfizer Visiting Professor, University of Massachusetts, Worcester, MA	April 7-9, 1998
Rush-Presbyterian-St. Luke's Medical Center, Chicago, IL	October 12-13, 1999
Emory University Medical Center, Atlanta, GA	March 2-3, 2000
University of Minnesota, Minneapolis, MN	December 20, 2000
Simon Dack Visiting Professor, Mount Sinai Medical Center, New York, NY	February 26, 2001
Franklin Davis Johnston Visiting Professor, University of Michigan	May 1, 2001
University of Washington, Seattle, WA	September 26-28, 2001
Alpha Omega Alpha Visiting Professor, University of Arizona, Tucson, AZ	April 4-5, 2002
Krannert Visiting Professor, Indiana University, Indianapolis, IN	June 3, 2002
Cleveland Clinic Foundation, Cleveland, OH	November 1, 2002
Leon Resnekov Visiting Professor, University of Chicago, Chicago, IL	January 24, 2003
University of North Carolina, Chapel Hill, NC	February 25-26, 2003
Leonard Dreifus, MD, Visiting Professor, Drexel University, Philadelphia, PA	June 2, 2003
University of Rome "la Sapienza," Rome, Italy	March 23-25, 2004
University of Louisville, Louisville, KY	January 18-19, 2005
Marjorie and Jaye Grollman Visiting Professor, University of Virginia	April 17-18, 2006
Brigham and Women's Hospital, Boston, MA	September 21-22, 2006
Imperial College, Royal Brompton Hospital, NHLI, London, UK	October 9-11, 2006
Ralph Cicerone Distinguished Visiting Professor, University of California, Irvine	June 12, 2007
Criscitello Visiting Professor, Tufts-New England Medical Center, Boston, MA	June 14-15, 2007
Anandi L. Sharma Visiting Professor, Mt Sinai Medical Center, New York, NY	October 29, 2007
Roche Distinguished Professor, University of Alberta, Edmonton, AB, Canada	December 5-6, 2007
McClelland Visiting Professor, Pacific Medical Center, San Francisco, CA	April 10-11, 2008
Rose Weiss Visiting Professor, Lahey Clinic, Burlington, MA	November 5-6, 2009
University of North Carolina School of Medicine, Chapel Hill, NC	September 16-17, 2010
Anna and Harry Borun Visiting Professor, UCLA Geffen School of Medicine	November 17-18, 2011
Isadore Rosenfeld Visiting Professor, Weill Cornell Medical Center, New York	December 5-6, 2011
University of Colorado Medical Center, Denver, CO	April 4, 2012
Guthrie Clinic, Sayre, PA	May 2-3, 2012
James Scheuer Professor, Montefiore/Albert Einstein Medical Center, New York	Jan 24, 2013

Awards and Honors:

Tau Beta Pi	1968
NIH Director's Award	1986
American Society for Clinical Investigation	1987
U.S. Public Health Service Commendation Medal	1990
U.S. Public Health Service Outstanding Service Medal	1991
Alpha Omega Alpha	1993

Association of American Physicians	1994
Distinguished Fellowship Award, American College of Cardiology	2000
Eugene Drake Award, American Heart Association, New England Affiliate	2002
Coeur d'Or Award, American Heart Association, Chicago Metro Division	2002
Distinguished National Leadership Award, American Heart Association	2003
Silver Medal, Denolin Award, European Society of Cardiology	2005
Distinguished Achievement Award, American Heart Association	2005
Women in Cardiology Mentorship Award, American Heart Association	2005
Distinguished Service Award, American College of Cardiology	2006
Presidential Citation, Performance Measures, American College of Cardiology	2006
Gold Heart Award, American Heart Association	2007
Master, American College of Cardiology	2008
John Phillips Memorial Award, American College of Physicians	2009
James B. Herrick Award, American Heart Association	2009
Henry N. Neufeld Memorial Award, Israel Heart Society	2010
Master, American College of Physicians	2011

Lay Honors:

Listed, <u>Best Doctors in America</u>	1992 through 2012
Listed, <u>America's Top Doctors</u>	2001 through 2012
Listed, "Top Doctors," <u>Chicago Magazine</u>	1994 through 2012
Listed, Marquis <u>Who's Who in America</u>	1998 through 2012
Listed, Marquis <u>Who's Who in American Education</u>	2003 through 2012
Listed, Marquis <u>Who's Who in Medicine and Healthcare</u>	2003 through 2012
Distinguished Eagle Scout Award, Boy Scouts of America	2004

Honorific and Named Lectures

Lewen R. Nelson Lecture, Methodist Medical Center Foundation, Peoria, IL "Nuclear medicine in the cardiac patient"	Nov 2, 1989
Magistral Lecture, XII Annual Italian National Congress of Cardiology, Florence, Italy "Evaluation of left ventricular function in ischemic heart disease"	Jun 3, 1991
State-of-the-Art Lecture, 64th Annual Scientific Sessions, American Heart Association, Anaheim, CA "Identification of viable myocardium"	Nov 11, 1991
Plenary Lecture, 64th Annual Scientific Sessions, American Heart Association, Anaheim, CA "When to intervene in the asymptomatic patient with valvular heart disease"	Nov 13, 1991
Daniel Biello Memorial Lecture, Mallinckrodt Institute of Radiology, Washington University, St. Louis, MO "Identification of viable myocardium in patients with left ventricular dysfunction"	Feb 10, 1992
Don C. Sutton Memorial Lecture in Cardiology, Evanston Hospital, Evanston, IL "Diastolic mechanisms in congestive heart failure"	Apr 24, 1992
7th Annual L.L. Braun Lecture, Illinois Masonic Medical Center, Chicago, IL "Present and future directions in cardiac imaging for coronary artery disease"	May 20, 1992
Henry Jackson Lecture, New England Cardiovascular Society, Framingham, MA "Timing of operation for valvular regurgitation"	Jun 4, 1992
36th Annual Douglas Boyd Memorial Lecture, Highland Park Hospital, Highland Park, IL "Diastolic mechanisms in congestive heart failure"	Oct 20, 1992
17th Annual Louis N. Katz Memorial Lecture, Michael Reese Hospital, Chicago, IL "Diastolic mechanisms in congestive heart failure"	Oct 21, 1992
George V. Taplin Memorial Lecture, Western Region, Society of Nuclear Medicine, Vancouver, BC "Myocardial viability"	Oct 29, 1993
State-of-the-Art Lecture, 66th Annual Meeting, Central Society for Clinical Research, Chicago, IL "Diastolic mechanisms in congestive heart failure"	Nov 5, 1993
38th Annual Douglas Boyd Memorial Lecture, Highland Park Hospital, Highland Park, IL "Timing of surgery for valvular heart disease"	Oct 18, 1994
Plenary Lecture, 67th Annual Scientific Sessions, American Heart Association,	

Dallas, TX	
"Progression to clinical heart failure: volume overload"	Nov 17, 1994
1st Annual Zolle Frank Lectureship, MacNeal Hospital, Berwyn, IL	
"Management of congestive heart failure"	Nov 23, 1994
State-of-the-Art Lecture, 68th Annual Scientific Sessions, American Heart Association, Anaheim, CA	
"Left ventricular dysfunction in valvular regurgitation"	Nov 14, 1995
New Town Lecture, 21st Annual New Town Conference, Kobe, Japan	
"Identification of viable myocardium in patients with left ventricular dysfunction"	Feb 17, 1996
Laennec Lecture, 69th Annual Scientific Sessions, American Heart Association, New Orleans, LA	
"Left ventricular function and the timing of operation for valvular regurgitation"	Nov 12, 1996
Plenary Lecture, 70th Scientific Sessions, American Heart Association, Orlando, FL	
"Advanced heart failure: importance of coronary artery disease"	Nov 11, 1997
Alpha Omega Alpha Lecture, Hahnemann-Allegheny University, Philadelphia, PA	
"Timing of surgery for valvular heart disease"	Feb 11, 1998
12th Joseph H. Nicholson Lecture, Tufts-New England Medical Center, Boston, MA	
"Heart failure in the USA: a manifestation of coronary artery disease"	June 19, 1998
Plenary Lecture, 71st Scientific Sessions, American Heart Association, Orlando, FL	
"Anorexigen-induced cardiovascular disease: where do we go from here?"	Nov 10, 1998
37th Annual Carl J. Wiggers Memorial Lecture, American Heart Association, Northeast Ohio Affiliate, Cleveland, OH	
"Evidence-based approach to management of valvular heart disease"	Mar 3, 1999
Samuel Bellet Lecture, Abington Hospital, Temple University Medical School	
"Evidence-based approach to management of valvular heart disease"	Apr 28, 1999
John S. Graettinger MD Memorial Lecture, Rush-Presbyterian-St. Luke's Medical Center, Chicago, IL	
"Management of patients with aortic and mitral regurgitation"	Oct 12, 1999
Edward W. Dennis Memorial Lecture, Baylor College of Medicine, Houston, TX	
"Hibernating myocardium: identification and management"	Apr 12, 2001
Franklin Davis Johnston Lecture, University of Michigan	
"Hibernating myocardium: identification and management"	May 1, 2001
Eugene Drake Address, American Heart Association, New England Affiliate, Rockland, ME	
"Cardiovascular Health: Challenges for the 21st Century"	Feb 9, 2002
Presidential Address, American Heart Association Scientific Sessions, Chicago, IL	
"The Challenge of Balancing Scientific Discovery and Translation"	Nov 17, 2002
Andrea Cesalpino Lecture, Italian Society of Cardiology, Rome, Italy	
"Cardiovascular Health: Global Challenges for the 21st Century"	Dec 15, 2002
Leon Resnekov Memorial Lecture, University of Chicago	
"Evidence-Based Management of Valvular Regurgitation"	Jan 24, 2003
Leonard Dreifus, MD, Distinguished Lecture, Drexel University, Philadelphia, PA	
"Cardiovascular Health in the 21st Century: Challenges and Opportunities"	June 2, 2003
Keynote Lecture, American Society of Nuclear Cardiology Scientific Session	
"Challenges and Opportunities in Reversing the Cardiovascular Epidemic"	Sept 12, 2003
50th Ruth Gray Lecture, Evanston Northwestern Healthcare	
"Challenges and Opportunities in Confronting the Cardiovascular Epidemic"	Feb 13, 2004
Keynote Lecture, Founders' Day Convocation, Northwestern University Feinberg School of Medicine	
"Careers in Medicine: Confronting the Epidemics of the 21st Century"	Aug 27, 2004
The Denolin Lecture, European Society of Cardiology Congress 2005	
"New Windows into the Heart: Advances in Cardiovascular Imaging"	Sep 4, 2005
Henry I. Russek Lecture, American College of Cardiology, New York, NY	
"Timing of Surgery for Valvular Heart Disease: Should We Advance the Clock?"	Dec 10, 2005
Marjorie and Jaye Grollman Lecture, University of Virginia, Charlottesville, VA	
"Heart Failure in the US: A Manifestation of Coronary Artery Disease"	Apr 17, 2006
Jack Dulworth Lecture, Baylor College of Medicine, Houston, TX	
"Evidence-Based Management of Aortic Valve Disease"	June 8, 2006
23rd Laurence H. Green Memorial Lecture, Brigham and Women's Hospital, Boston, MA	
"Evidence-Based Management of Aortic Valve Disease"	Sep 22, 2006

Johnson McGuire Lecture, University of Cincinnati, Cincinnati, OH "Evidence-Based Management of Valvular Heart Disease"	Sep 27, 2006
Paul Wood Lecture, Imperial College, Royal Brompton Hospital, NHLI, London UK "New Windows into the Heart: Cardiovascular Imaging From Molecules to Patients"	Oct 11, 2006
Donald Tresch Memorial Lecture, Medical College of Wisconsin, Milwaukee, WI "Evidence-Based Management of Aortic Valve Disease"	Nov 3, 2006
25th Annual Jesse E. Edwards, MD, Lecture, United Hospitals, St Paul, MN "Advances in Cardiovascular Magnetic Resonance Imaging and Computed Tomography"	Nov 3, 2006
Plenary Lecture, 79th Scientific Sessions, American Heart Association, Chicago, IL "Valvular Heart Disease 2006: ACC/AHA Guidelines Update"	Nov 12, 2006
14th Annual William L. Winters, Jr, MD, Lecture, Methodist Hospital, Houston, TX "Evidence-Based Management of Valvular Heart Disease"	Dec 7, 2006
24th Annual J. Gerard Mudd Lecture, St. Louis University School of Medicine "Evidence-Based Management of Aortic Valve Disease"	June 1, 2007
2007 Criscitiello Lecture, Tufts-New England Medical Center, Boston, MA "Evidence-Based Management of Aortic Valve Disease"	June 15, 2007
2007 Honored Lecture, Society for Heart Valve Disease, New York, NY "Improving Quality in Valvular Heart Disease"	June 17, 2007
6th Annual Mario S. Verani, MD, Memorial Lecture, American Society of Nuclear Cardiology, San Diego, CA "Cardiovascular Imaging: Value Added or Added Cost?"	Sep 7, 2007
Simon Dack, MD, Memorial Lecturer, Mt Sinai Medical Center, New York, NY "Is Surgery Indicated for Asymptomatic Mitral Regurgitation?"	Oct 29, 2007
2007 Women in Cardiology Lecture, American Heart Association "Careers in Academic Cardiology: Is There a Silver Lining?"	Nov 6, 2007
McClelland Lecture in Cardiovascular Disease, Pacific Medical Center, San Francisco "Evidence-Based Management of Mitral Regurgitation"	Apr 10, 2008
Opening plenary lecture, Society for Cardiovascular Magnetic Resonance, Orlando, FL "Imaging Challenges in Heart Failure"	Jan 30, 2009
Presidential Address, Society for Heart Valve Disease, Berlin, Germany "Challenges in Overcoming the Global Burden of Valvular Heart Disease"	Jun 28, 2009
R.T. Hall Lecture, Cardiac Society of Australia and New Zealand "Evidence-Based Management of Valvular Heart Disease"	Aug 14, 2009
Keynote Lecture, American Society of Nuclear Cardiology, Minneapolis, MN "Measuring Quality in Cardiovascular Imaging"	Oct 3, 2009
2009 Rose Weiss Lecture, Lahey Clinic, Burlington, MA "Evidence-Based Management of Valvular Heart Disease"	Nov 6, 2009
42nd James B. Herrick Lecture, American Heart Association, Orlando, FL "Clinical Research at the Crossroad"	Nov 14, 2009
Walter G. Barr, MD, AOA Distinguished Lecture, Northwestern University "Careers in Academic Medicine... at the Crossroads"	Dec 2, 2009
Henry N. Neufeld Memorial Lecture, Israel Heart Society, Tel Aviv, Israel "Cardiovascular Research at the Crossroads"	Apr 14, 2010
Norman Reitman, MD, Lecture in Cardiology, Robert Wood Johnson Medical School, New Brunswick, NJ "Evidence-Based Management of Valvular Heart Disease"	May 5, 2010
Peter Cohn, MD, Endowed Lecture, Stony Brook University, Stony Brook, NY "Evidence-Based Management of Valvular Heart Disease"	June 9, 2010
9th Ernest and Hazel Craige Lecture, University of North Carolina, Chapel Hill, NC "Evidence-Based Management of Valvular Heart Disease"	Sep 17, 2010
Keynote Address, Early Career Investigator Seminar, American Heart Association "Cardiovascular Research at the Crossroad"	Nov 13, 2010
Plenary Lecture, Scientific Sessions 2010, American Heart Association, Chicago, IL "Cardiovascular Imaging 2010: What is the Evidence for Clinical Practice"	Nov 17, 2010
World Heart Federation Lecture, XXIII Interamerican Congress of Cardiology Cartagena, Colombia "Facing the Global Challenge of Cardiovascular Disease"	Mar 11, 2011
Gottlieb C. Freisinger Society Keynote Address, Vanderbilt University, Nashville, TN "Clinical Cardiovascular Research at the Crossroads"	Oct 22, 2011

Massimo Chiariello Lecture, University Magna Graecia, Catanzaro, Italy "The Changing Patterns of Aortic Stenosis"	Oct 29, 2011
Plenary Lecture, Scientific Sessions 2011, American Heart Association, Orlando, FL "Decision-Making in Patients with Advanced Valvular Disease"	Nov 14, 2011
Plenary Lecture, Scientific Sessions 2011, American Heart Association, Orlando, FL "Challenges in Cardiovascular Imaging: Myocardial and Valvular Disease"	Nov 15, 2011
Opening plenary lecture, Society for Cardiovascular Magnetic Resonance, Orlando, FL "What is the Status of Viability Imaging After STICH"	Feb 3, 2012
IFC 2012 Lecture, Institute of Clinical Physiology (IFC), Consiglio Nazionale della Ricerche (CNR), Pisa, Italy "Tips for a Young Biomedical Researcher: a North American Perspective"	Mar 30, 2012
S. Gilbert Blount Memorial Lecture, University of Colorado, Denver, CO "Evidence-Based Management of Valvular Heart Disease"	Apr 3, 2012
3rd Annual Frances Barnes Lecture in Clinical Cardiology, East Carolina University, Greenville, NC "Evidence-Based Management of Valvular Heart Disease"	Oct 19, 2012
James Scheuer Lecture, Montefiore/Albert Einstein Medical Center, New York, NY "Quality of Care, USA: Can We Do Better?"	Jan 24, 2013

Editorial Boards:

American Journal of Cardiology	1983-present
Journal of the American College of Cardiology	1983-1987, 1991-1995
Circulation	1986-present
Guest Editor	2004-present
Cardiovascular Imaging	1988-1996
American Journal of Cardiac Imaging	1990-1995
International Journal of Cardiac Imaging	1990-1998
Journal of Heart Valve Disease	1992-present
Journal of Nuclear Cardiology	1993-present
Associate Editor	2003-2011
Journal of Nuclear Medicine	1994-1999
American Heart Journal	1996-present
ACCEL	1997-present
Heart and Vessels	2000-2008
Italian Journal of Cardiology	2000-2008
European Heart Journal	2002-present
Current Problems in Cardiology	2003-present
Cardiology	2006-present
JACC Imaging, Senior Advisory Editor	2007-present
Journal of Thoracic and Cardiovascular Surgery	2008-present
Global Heart, Senior Advisory Council	2011-present
Global Cardiology, Deputy Editor	2011-present

Professional Societies:

Master, American College of Cardiology
Master, American College of Physicians
Fellow, American Heart Association
Fellow, Council on Clinical Cardiology
Fellow, European Society of Cardiology
Fellow, Institute of Medicine of Chicago
Member, American Federation for Clinical Research
Member, American Society for Clinical Investigation
Member, Association of American Physicians
Member, Alpha Omega Alpha
Member, American Association for the Advancement of Science
Member, American Society of Nuclear Cardiology
Member, Association of Professors of Cardiology
Member, Association of University Cardiologists
Member, Central Society for Clinical Research
Member, Heart Valve Society of America
Member, Society for Heart Valve Disease

Participation in Professional and Scientific Societies:

American Board of Internal Medicine	
Member, Subspecialty Board on Cardiovascular Disease	1995-2001
Member, Cardiovascular SEP Committee	2009-2010
American Board of Medical Specialties	
Characterizing Episodes and Cost of Care: Acute Myocardial Infarction Work Group	2008-present
American College of Cardiology	
Exhibits Committee	1986-1992
Program Committee	1991-1992, 1999-2001
Extramural Continuing Education Committee	1996-2002
Chairman	1998-2002
Development Committee	1996-2002
Education Committee	1998-2004
Board of Trustees	1999-2004
Nominating Committee	1999-2001
Steering Committee, Core Cardiology Training Guidelines In Cardiovascular Medicine (COCATS II)	1999-2005
ACC/Pfizer Visiting Professorship Program in Cardiovascular Medicine Advisory Committee	1993-1996, 2001-2004
ACC Liason to Director, National Heart, Lung, and Blood Institute	2003-2006
Quality Strategic Directions Committee	2005-2010
Steering Committee, Core Cardiology Training Guidelines In Cardiovascular Medicine (COCATS III)	2006-2008
Science and Clinical Policy Committee	2009-present
Executive Steering Committee, FOCUS (national quality initiative on optimal utilization of cardiovascular imaging)	2009-present
ACC/AHA Task Force on Practice Guidelines Subcommittees	
Committee on Cardiac Radionuclide Imaging	1993-1995
Committee on Valvular Heart Disease	1996-present
Chairman	1996-2007
Committee on Secondary Prevention of Coronary Artery and Vascular Disease	2000-present
Committee on Hypertrophic Cardiomyopathy	2009-present
ACC/AHA Joint Task Force on Performance Measures	2000-present
Chairman	2005-2009
Chairman , Heart Failure Performance Measures Writing Group	2000-present
American Heart Association	
Cardiovascular Physiology-Pathophysiology Research Study Committee	1989-1992
Committee on Scientific Sessions Program	1994-2000
Chairman	1998-2000
Science Advisory and Coordinating Committee	1998-2004
Chairman	2002-2003
Committee on Scientific Councils	1998-2001
Board of Directors	1999-2004
Clinical Science Committee	2000-2002
Chairman	2001-2002
Professional Education Committee	2002
Chairman	2002
Nominating Committee	2002, 2003-2004
Manuscript Oversight Committee	2003-2004
Chairman	2003-2004
President-Elect	2002
President	2002-2003
Get With the Guidelines Steering Committee	2006-2010
Chairman , Integrated Continuity of Care Advisory Panel	2007-2010
International Committee	2008-present
Hospital Accreditation Science Committee	2010-present
Stroke Performance Measures Oversight Committee	2011-present
Council on Clinical Cardiology	
Executive Committee	1989-1991, 1994-2003
Advanced Cardiac Imaging/Technology Committee	1986-1991

Chairman	1989-1991
Program Committee	1989-1997
Chairman	1994-1997
Nominating Committee	1989-1992
Chairman	2001-2003
Long Range Planning/Budget Committee	1996-2003
Chairman	1997-1999
Levine Award Committee, Chairman	1997-1999
AHA Assembly Delegate	1997-2001
Council Vice-Chairman	1997-1999
Council Chairman	1999-2001
American Heart Association of Metropolitan Chicago	
Board of Governors	1992-1997
Research Council	1992-1997
American Heart Association, Midwest Affiliate	
Chicago Metropolitan Board of Directors	2000-2011
President	2001-2002
Member, ex officio, Midwest Affiliate Board of Directors	2000-2003
Member, Greater Midwest Affiliate Board of Directors	2003-2006
American Medical Association	
Diagnostic and Therapeutic Technology Assessment Panel	1992-1998
Physician Consortium for Performance Improvement	2002-present
Member, Executive Committee	2006-present
Chairman , Implementation and Evaluation Advisory Committee	2006-2012
American Society of Nuclear Cardiology	
Membership Committee	1993-1995
Board of Directors	1994-1998
Nominating Committee	1994-1998
Chairman , Education Committee	1994-2000
Association of Professors of Cardiology	
Nominating Committee	1993-1994
Committee on Cardiology-Medicine Relationships	1994-1995
Councilor	1994-1999
Secretary-Treasurer	1996-1999
President	2000-2001
Chicago Cardiology Group	
President	1994-1996
Gilead Sciences Research Scholars Program	
Scientific Review Committee	2010-present
Fondation Leducq	
Scientific Advisory Committee	2010-present
National Committee for Quality Assurance	
Cardiovascular Measurement Advisory Panel	2009-2010
National Quality Forum	
Steering Committees:	
Priorities, Goals and Measurement Framework for Episodes of Care	2007-2009
Comprehensive Diabetes Measure Set-Episodes of Care	2008-2009
National Voluntary Consensus Standards for Hospital Outcomes / Efficiency	2008-2010
Patient-Focused Episodes of Care	2009-2010
Endorsing Best Practices for Measuring and Reporting Care Coordination	2009-2010
Society for Heart Valve Disease	
President	2009-2011
Society of Nuclear Medicine	
Board of Directors, Cardiovascular Council	1987-1992
President , Cardiovascular Council	1991-1992
Program Committee	1990-1994
Vice-Chair, Cardiology	1992-1994
Committee on Council Coordination	1991-1994
DuPont Fellowship Award Steering Committee	1991-1999
Publications Committee	1994-1999
The Joint Commission	
Sudden Cardiac Arrest Technical Advisory Panel	2009-present

World Heart Federation
Co-Chair, Program Committee, 2012 World Congress of Cardiology, Dubai 2011-2012

Governmental Committees:

Center for Medicare and Medicaid Services
Technical Expert Panel, Inpatient Care Physician Resource Use Measures 2010

US Department of Veterans Affairs
Data Monitoring Board, Clinical Outcomes Using Revascularization
and Aggressive Drug Evaluation (COURAGE) Trial 1999-2007

US Food and Drug Administration
Ad Hoc Committee on Tissue-Type Plasminogen Activator 1987
Ad Hoc Committee on Percutaneous Heart Valve Technology 2004-2006

Institute of Medicine
Clinical Research Roundtable 2003-2005

National Aeronautics and Space Administration
Chairman, Cardiovascular Space Flight Health Standards Review Panel 2005

National Institutes of Health
PET Advisory Committee (intramural) 1990-1992
Division of Computer Research and Technology Ad Hoc Advisory
Panel on Computer Image Technology (intramural) 1991

National Heart, Lung, and Blood Institute
Animal Care and Use Committee (intramural) 1985-1988
Institutional Clinical Research Subpanel (intramural) 1990-1992
National Heart Attack Alert Program
Working Group on Methods/Technologies 1994-2002
Women's Ischemia Syndrome Evaluation (WISE)
Data and Safety Monitoring Board 1996-present
Special Emphasis Panel on Heart and Vascular Diseases Research
Opportunities 1997
Search Committee, Director, Division of Heart & Vascular Disease 1999-2000
Board of Extramural Advisors 2000-2006
STICH Trial: Steering Committee 2000-present
CORAL Trial: **Chairman**, Protocol Review Committee 2003-2004
Chairman, Data Safety and Monitoring Committee 2004-present
Strategic Planning Level I and II working groups 2006
PACE-MI Trial: Executive Steering Committee 2006-present
External Review Committee, Cardiothoracic Surgical Network 2009-2010
PROMISE Trial: **Chairman**, Protocol Review Committee 2009-2010
Chairman, Data Safety and Monitoring Committee 2010-present
Chairman, Heart Failure Clinical Research Network Review Panel 2011
Chairman, Special Emphasis Panel, Cardiothoracic Surgery Program 2012

Northwestern University Committees:

Steering Committee, Feinberg Cardiovascular Research Institute 1992-2006
Search Committee for Chief, Division of Cardiac Surgery 1994-1996
Search Committee for Chairman, Department of Radiology 1995-1996
Search Committee for Chief, Section of Cardiology, Evanston Hospital 1999-2000
Search Committee for Chief, Division of Cardiac Surgery 2003-2004
Search Committee for Director, Feinberg Cardiovascular Research Institute 2003-2006
Executive Committee, Department of Medicine 2008-present

Participation in National Scientific Meetings

American Heart Association

Abstract grading consultant 1983-2008

56th Scientific Sessions, Anaheim, CA, Nov 14-17, 1983

1. Co-chairman, original contributions session: Ventricular function/heart failure

57th Scientific Sessions, Miami Beach, FL, Nov 12-15, 1984

1. Co-chairman, original contributions session: Ventricular function/hemodynamics/heart failure

58th Scientific Sessions, Washington, D.C., Nov 11-14, 1985

1. Participant, Cardiovascular Conference, Medical Therapy of Hypertrophic Cardiomyopathy
2. Moderator, How To Session, How to use exercise testing for prognostication in coronary artery disease

59th Scientific Sessions, Dallas, TX, Nov 17-20, 1986

1. Co-chairman, original contributions session, Assessment of cardiac function
2. Participant, Postgraduate Seminar, Noninvasive Techniques for Evaluating LV Function
3. Participant, Cardiovascular Conference, Left Ventricular Diastolic Function

Participant, State-of-the-Art Conference on Noninvasive Testing in the Diagnosis and Management of Patients with Suspected or Overt Heart Disease, Dallas, TX, Sept 18-20, 1989

62nd Scientific Sessions, New Orleans, LA, Nov 13-16, 1989

1. Co-chairman, original contributions session, Left ventricular systolic and diastolic function

63rd Scientific Sessions, Dallas, TX, Nov 12-15, 1990

1. Participant, Cardiovascular Conference, When to Perform Surgery in Valvular Heart Disease
2. Participant, Postgraduate Seminar, Newer Noninvasive Methods for the Assessment of Ischemic Heart Disease: State-of-the-Art and Future Perspectives
3. Co-chairman, Plenary Session, Cardiovascular Risk Assessment for Noncardiac Surgery

64th Scientific Sessions, Anaheim, CA, Nov 11-14, 1991

1. State of the Art Lecture, "Identification of viable myocardium"
2. Co-chairman, Featured Research Session: Myocardial Viability
3. Participant, How To Session, How to assess left ventricular diastolic function
4. Plenary Lecture, "When to intervene in the asymptomatic patient with valvular heart disease"

Scientific Conference on the Cardiovascular Response to Exercise, Chicago, IL, July 24-25, 1992

65th Scientific Sessions, New Orleans, LA, Nov 16-19, 1992

1. Co-chairman, original contributions session: Coronary disease-assessment/risk stratification

66th Scientific Sessions, Atlanta, GA, Nov 8-11, 1993

1. Participant, Postgraduate Seminar, Radionuclide Evaluation of Left Ventricular Function
2. Participant, Postgraduate Seminar, Physiology/Pathophysiology of Myocardial Hibernation and Stunning

67th Scientific Sessions, Dallas, TX, Nov 13-17, 1994

1. Co-chairman, Featured Research Session: Nuclear Cardiology - Prognostic Value
2. Plenary Lecture, "Progression to clinical heart failure: volume overload"

68th Scientific Sessions, Anaheim, CA, Nov 13-16, 1995

1. Co-Moderator, Samuel A. Levine Young Investigator Award
2. Participant, Cardiovascular Seminar, Management of the Asymptomatic Patient
3. State of the Art Lecture, "Left ventricular dysfunction in valvular regurgitation"

69th Scientific Sessions, New Orleans, LA, Nov 10-13, 1996

1. Participant, Cardiovascular Seminar, Advances in Management of Aortic Valve Disease
2. Co-Moderator and Judge, Samuel A. Levine Young Investigator Award Competition
3. Laennec Lecture, "Left ventricular function and the timing of operation for valvular regurgitation"

70th Scientific Sessions, Orlando, FL, Nov 9-12, 1997

1. Program Co-Chairman
2. Co-Moderator and Judge, Samuel A. Levine Young Investigator Award Competition
3. Plenary Lecture, "Advanced heart failure: importance of coronary artery disease"

Prevention V Conference. Beyond Secondary Prevention: Identifying the High Risk Patient for Primary Prevention, San Francisco, CA, Oct 26-28, 1998

71st Scientific Sessions, Dallas, TX, Nov 8-11, 1998

1. Program Co-Chairman
2. Chairman and Judge, Samuel A. Levine Young Investigator Award Competition
3. Co-Moderator, Joint AHA/ASPC Symposium: Risk Factors and Prevention of Cardiovascular Disease
4. Co-Moderator, Special Session, Clinical Trial Results
5. Plenary Lecture, "Anorexigen-induced cardiovascular disease: where do we go from here?"

72nd Scientific Sessions, Atlanta, GA, Nov 7-10, 1999

1. Program Chairman
2. Participant, Opening Plenary Session
3. Chairman and Judge, Samuel A. Levine Young Investigator Award Competition
4. Participant, mini-symposium A New Insights into Myocardial Stunning, Hibernation, and Preconditioning
5. Moderator, Joint AHA/Japanese Circulation Society Symposium
6. Participant, Joint AHA/Spanish Society of Cardiology/Interamerican Society of Cardiology Symposium
7. Moderator, Late Breaking Clinical Trials Plenary Session
8. Moderator, James B. Herrick Lecture

Scientific Sessions 2000, New Orleans, LA, Nov12-15,2000

1. Program Chairman
2. Participant, Opening Plenary Session
3. Chairman and Judge, Samuel A. Levine Young Investigator Award Competition
4. Participant, Early Career Development Program
5. Moderator, Joint AHA/Japanese Circulation Society Symposium
6. Participant, Joint AHA/Spanish Society of Cardiology/Interamerican Society of Cardiology Symposium
7. Moderator, Late Breaking Clinical Trials Plenary Session
8. Moderator, James B. Herrick Lecture

Prevention VI Conference: Diabetes and Cardiovascular Disease. Panel chair: Management of Cardiovascular-Renal Complications, Orlando, FL, Jan 18-20,2001

Scientific Sessions 2001, Anaheim, CA, Nov 11-14,2001

1. Participant, Early Career Development Program
2. Judge, Samuel A. Levine Young Investigator Award Competition
3. Participant, Special Session "Outcomes of Modern Treatment for Valvular Heart Disease: Impact on Timing of Surgery"
4. Moderator, Moderated Poster Session "Myocardial Viability Assessment in Nuclear Cardiology"
5. Moderator, "How to Diagnosis and Manage Ischemic Heart Disease in Heart Failure"

Asian Pacific Science Forum, The Genomics Revolution: Bench to Bedside to Community, Honolulu, HI, Apr 24-26,2002

Participant, Scientific Conference on Atherosclerotic Vascular Disease, Boston, MA, July 8-10,2002

Scientific Sessions 2002, Chicago, IL, Nov 17-20,2002

1. Participant, Early Career Development Program
2. Presidential Address, "The Challenge of Balancing Scientific Discovery and Translation"
3. Moderator, plenary session, "Challenges in Valvular Heart Disease"

28th International Stroke Conference, Phoenix, AZ, Feb 13-15,2003

Asian Pacific Science Forum, New Discoveries in Cardiovascular Disease and Stroke: Bench to Bedside to Community, Honolulu, HI, June 8-10,2003

Cardiovascular Science and Healthcare Disparities, Atlanta, GA, Oct 1-4, 2003 (symposium chairman)

Scientific Sessions 2003, Orlando, FL, Nov 9-12,2003

1. Moderator, plenary session, "The Obesity Epidemic: Will it Undo the Last 40 Years of Progress?"
2. Participant, Meet the Experts Session: Valvular Heart Disease

5th Scientific Forum on Quality of Care and Outcomes Research in Cardiovascular Disease and Stroke, Washington, DC, May 16-17,2004

Scientific Sessions 2004, New Orleans, LA, Nov 7-10,2004

1. Discussant, plenary session, "Late Breaking Clinical Trials"
2. Moderator, plenary session, "Valvular Heart Disease – The Cutting Edge"
3. Participant, Special Session, "Imaging in Coronary Artery Disease"
4. Moderator, Ask the Experts, "Get With the Guidelines"
5. Participant, Ask the Experts, "Early Career: Developing a Career in Academic Cardiology"
6. Participant, "How to Balance Academics and Clinical Medicine"

6th Scientific Forum on Quality of Care and Outcomes Research in Cardiovascular Disease and Stroke, Washington, DC, May 14-16,2005

Scientific Sessions 2005, Dallas, TX, Nov 13-16,2005

1. Moderator, plenary session, "Late Breaking Clinical Trials"
2. Participant, Cardiovascular Seminar, "Endocarditis prophylaxis: does it make sense?"
3. Participant, Ask the Experts, "Early Career: Developing a Career in Academic Cardiology"

Prevention VIII Conference: Kidney Disease, Hypertension and Cardiovascular Disease. Orlando, FL, Jan 26-28,2006 (Symposium chairman)

Scientific Sessions 2006, Chicago, IL, Nov 12-15,2006

1. Moderator and participant, plenary session, "Valvular Heart Disease 2006: ACC/AHA Guidelines Update"
2. Moderator, Special Session, "Perspectives on Cardiology in its Second Century"
3. Moderator, Ask the Experts, "How to Evaluate Aortic Insufficiency and Time Intervention"

Scientific Sessions 2007, Orlando, FL, Nov 4-7,2007

1. Moderator, Special Session, "Management of Ischemic Cardiomyopathy"
2. 2007 Women in Cardiology Lecture: "Careers in Academic Cardiology: Is There a Silver Lining?"

Scientific Sessions 2008, New Orleans, LA, Nov 8-12,2008

1. Moderator and Participant, "New Onset Heart Failure: Worsening Epidemic"
2. Moderator, Special Session, "Implications of Recent Clinical Trials for Daily Practice"

Scientific Sessions 2009, Orlando, FL, Nov 15-18,2009

1. 42nd James B. Herrick Lecture, "Clinical Research at the Crossroad"
2. Moderator, Early Career and Fellow-in-Training Program
3. Moderator, How-to-Session, "The Emerging Role of MRI in the Management of Valvular Heart Disease"
4. Discussant, Plenary Session, Late-Breaking Clinical Science

Scientific Sessions 2010, Chicago, IL, Nov 14-17,2010

1. Keynote Address, Early Career Investigator Seminar
2. Participant, Special Session, "Aortic Valve Treatment: Changing Paradigms in Diagnosis and Approach"
3. Participant, Plenary Session, "Cardiovascular Imaging 2010: What is the Evidence for Clinical Practice?"

Scientific Sessions 2011, Orlando, FL, Nov 12-16,2011

1. Early Career Investigator Seminar, "Grant Writing"
2. Participant, Special Session, discussant of Repair AMI trial
3. Participant, Plenary Session, "Strategies for Complex Valvular Disease: From Clinic to Catheter"
4. Participant, Plenary Session, "Challenges in Cardiovascular Imaging"

Scientific Sessions 2012, Los Angeles, CA, Nov 3-7,2012

1. Early Career Investigator Panel, "Finding the Right Job"
2. Participant, Special Session, "Myocardial Viability Imaging: Contemporary Options"
3. Participant, Special Session, "Best of Other International Cardiovascular Meetings"
4. Participant, Cardiovascular Seminar, "Management of Myocardial Ischemia in Heart Failure"
5. Participant, Cardiovascular Seminar, "Case Studies in Aortic Valve Disease"

American College of Cardiology

Abstract grading consultant 1983-1986,1988-1996,1998-2002,2004-2011

30th Annual Scientific Session, San Francisco, CA, Mar 15-19,1981

1. Chairman, Panel Discussion, Optimal timing of operation in patients with aortic insufficiency
2. Co-chairman, original contributions session: Myocardial/pulmonary vascular disease

31st Annual Scientific Session, Atlanta, GA, Apr 25-29,1982

1. Controversies in Cardiology Session, Valve replacement is indicated in asymptomatic patients with aortic regurgitation and left ventricular dysfunction
3. Fireside Panel, Radionuclide angiography in evaluation of valvular, myocardial, and coronary disease

32nd Annual Scientific Session, New Orleans, LA, Mar 21-24,1983

1. Participant, Luncheon Panel, Strategy for noninvasive diagnosis of coronary artery disease
2. Co-chairman, original contributions session, Valvular heart disease: aortic stenosis and insufficiency
3. Participant, Symposium on Diastolic Properties of the Heart: Clinical Implications

33rd Annual Scientific Session, Dallas, TX, Mar 25-29,1984

1. Co-chairman, original contributions session, Aortic stenosis-mitral incompetence

Bethesda Conference #16: Cardiovascular Abnormality in the Athlete: Recommendations Regarding Eligibility for Competition, Bethesda, MD, Oct 3-5,1984 [Task Force 1B, Acquired valvular heart disease]

34th Annual Scientific Session, Anaheim, CA, Mar 11-14,1985

1. Participant, Meet the Experts Session, Are we waiting too long to operate in valvular insufficiency?
2. Co-chairman, original contributions session, Valve replacement--new developments and late sequelae

Bethesda Conference #17: Cardiology Training, Bethesda, MD, Nov 1-2,1985

35th Annual Scientific Session, Atlanta, GA, Mar 9-13,1986

1. Participant, Symposium on Noninvasive Techniques for Serial Assessment of Patients with Aortic and Mitral Regurgitation
2. Co-chairman, original contributions session, Valve surgery: hemodynamic predictors and outcomes

36th Annual Scientific Session, New Orleans, LA, Mar 8-12,1987

1. Co-chairman, original contributions session, Aortic valve disease
2. Participant, Symposium on Ventricular Filling: Basic Concepts and Clinical Application

37th Annual Scientific Session, Atlanta, GA, Mar 28-31,1988

1. Participant, Mini-Course in Nuclear Cardiology
2. Chairman, Luncheon Panel, Timing of surgery in chronic aortic or mitral regurgitation
3. Co-chairman, original contributions session, Hypertrophic cardiomyopathy

38th Annual Scientific Session, Anaheim, CA, Mar 19-23,1989

1. Participant, Mini-Course in Nuclear Cardiology
2. Participant, Fireside Panel, Acute myocardial infarction: Timing of discharge, risk stratification, discharge medications, and advice concerning exercise
3. Co-chairman, original contributions session, Valvular regurgitation: Factors affecting outcome

- 39th Annual Scientific Session, New Orleans, LA, Mar 18-22, 1990
1. Participant, Mini-Course in Nuclear Cardiology
 2. Participant, Meet the Experts, When to operate on patients with minimally symptomatic valvular insufficiency
- 40th Annual Scientific Session, Atlanta, GA, Mar 3-7, 1991
1. Participant, Mini-Course on Risk Stratification after Myocardial Infarction
 2. Chairman, original contributions session, Redistribution and reinjection of thallium-201
 3. Participant, Luncheon Panel, Assessment of Myocardial Viability
- 41st Annual Scientific Session, Dallas, TX, Apr 12-16, 1992
1. Participant, Mini-Course on Advances in Nuclear Cardiology
 2. Participant, Meet the Experts Session, Timing of valve surgery
 3. Participant, Symposium on Myocardial Viability
- 42nd Annual Scientific Session, Anaheim, CA, Mar 14-18, 1993
1. Moderator, Mini-Course on Myocardial Perfusion and Viability After Ischemic Injury
 2. Participant, Symposium on Radionuclide Assessment of Acute Coronary Artery Syndromes
 3. Participant, Symposium on Management of the Stable Patient with Heart Disease
- 43rd Annual Scientific Session, Atlanta, GA, Mar 13-17, 1994
1. Participant, Mini-Course on Advances in Noninvasive Assessment of Myocardial Perfusion and Viability
 2. Moderator and Participant, Symposium on Diastolic Dysfunction: Pathophysiology and Pharmacologic Modification
- 44th Annual Scientific Session, New Orleans, LA, Mar 19-23, 1995
1. Participant, Mini-Course on Nuclear Cardiology: Advances and Assessment of Perfusion and Viability
 2. Moderator, Symposium on Noninvasive Assessment of Myocardial Viability
 3. Participant, Symposium on Critical Analysis of Diagnostic Tests in Patients with Heart Disease
- 45th Annual Scientific Session, Orlando, FL, Mar 24-27, 1996
1. Minicourse: Nuclear Cardiology-Advances and Assessment of Perfusion and Viability
 2. Core Curriculum: Selection of Patients for Cardiovascular Surgery: Aortic Regurgitation
 3. Co-chairman, Original Contributions Session: Viability-Relationship to Results of Revascularization
 4. Luncheon Panel: Differentiating Between Viable and Irreversibly Damaged Myocardium
 5. Meet the Experts Session: What is Appropriate Risk Assessment After MI in the Reperfusion Era?
- 46th Annual Scientific Session, Anaheim, CA, Mar 16-19, 1997
1. Symposium on Cardiovascular Disease in Women
 2. Minicourse: Nuclear Cardiology: Clinical Application and Impact on Patient Management
 3. Meet the Experts Session: Assessment of Viable Myocardium
- 47th Annual Scientific Session, Atlanta, GA, Mar 29-Apr 1, 1998
1. Symposium on Congestive Heart Failure: Risk Stratification, Prognosis and Implications for Therapy
 2. Meet the Experts Session: Diastolic Heart Failure
 3. Judge, Young Investigators Award
 4. Symposium on Clinical Decision Making
- 48th Annual Scientific Session, New Orleans, LA, Mar 7-10, 1999
1. Minicourse: Nuclear Cardiology: Clinical Application and Impact on Patient Management
 2. Minicourse: Management of Aortic Valve Abnormalities in Pediatric Patients
 3. Participant and Moderator, Symposium on ACC/AHA Guidelines for Valvular Heart Disease
- The ACC Forum on the Future: Delivering Quality Cardiovascular Care in the 21st Century, New York, NY, Dec 9, 2002
- 49th Annual Scientific Session, Anaheim, CA, Mar 12-15, 2000
1. Spotlight Session, Echocardiography in Valvular Heart Disease
 2. State-of-the-Art Lecture, Indications for surgery in patients with asymptomatic aortic and mitral valve disease
 3. Symposium, Management of the Asymptomatic Patient with Valvular Heart Disease
 4. Core Curriculum, Recognition and Optimal Treatment of Ischemic Left Ventricular Dysfunction
- 50th Annual Scientific Session, Orlando, FL, Mar 18-21, 2001
1. State-of-the-Art Lecture, Assessing ischemia and viability in left ventricular dysfunction
 2. Symposium, Noninvasive Assessment of Myocardial Viability
 3. Core Curriculum, Changing Indications for Surgical Intervention in Patients with Valvular Heart Disease
- 51st Annual Scientific Session, Atlanta, GA, Mar 17-20, 2002
1. Symposium, Nuances of Optimizing Imaging Protocols
 2. Co-Moderator, Symposium, Aortic Valve Disease
 3. Co-Moderator, Symposium, Coronary Revascularization for Treatment of Heart Failure
- 52nd Annual Scientific Session, Chicago, IL, Mar 30-Apr 2, 2003
1. Symposium, Aortic Valve Disease: What We Know and What We Need to Know

2. Core Curriculum, Evidence Based Incorporation of Nuclear Cardiology in Clinical Practices
 3. Co-Moderator, Read With the Experts, Performing and Interpreting Modalities of Viability Imaging
 4. Co-Chair, Meet the Experts, When Not to Operate in Regurgitant Valve Disease
 5. Joint Symposium, European Society of Cardiology/ACC: Valvular Heart Disease
- 53rd Annual Scientific Session, New Orleans, LA, Mar 7-10,2004
1. Participant, Symposium on 2004 ACC/AHA/ASNC Radionuclide Imaging Guidelines: What's New in the Clinical Application of Nuclear Cardiology.
 2. Participant, Symposium on Challenges in Aortic Valve Disease.
 3. Participant, Symposium on Surgical Treatment of Heart Failure.
 4. Co-moderator, Original Contributions Session, New Concepts in Patients with Valvular Regurgitation.
- ACC/AHA Consensus Conference on Professionalism and Ethics, Bethesda. MD, June 2-3,2004
- Bethesda Conference #36: Recommendations for Determining Eligibility for Competition in Athletes With Cardiovascular Abnormalities, New Orleans, LA, Nov 6,2004
- 54th Annual Scientific Session, Orlando, FL, Mar 6-9,2005
1. Moderator, Symposium on Diagnosis and Management of Ischemic Left Ventricular Dysfunction
 2. Participant, Nuclear Cardiology: Read With the Experts
 3. Participant, Symposium on Valvular Heart Disease in Women
- 55th Annual Scientific Session, Atlanta, GA, Mar 11-14,2006
1. Participant, Symposium on Invasive Therapies for Chronic Heart Failure
 2. State-of-the-Art Lecture, Indications for Valve Surgery in the Asymptomatic Patient
 3. Participant, Symposium on Integrated Imaging of Chronic Heart Failure
 4. Participant, Symposium on Degenerative Mitral Regurgitation
 5. Meet the Experts Session: Severe Valvular Regurgitation with Left Ventricular Dysfunction
 6. Moderator, Panel: Pregnancy Recommendations in Severe Aortic Regurgitation
- 56th Annual Scientific Session, New Orleans, LA, Mar 24-27,2007
1. Participant, Symposium on ACC/AHA Guidelines for Valvular Heart Disease Update 2007
 2. Moderator, Assessment of Myocardial Viability: Who Needs It and How to Do It?
- 57th Annual Scientific Session, Chicago, IL, Mar 29-Apr 1,2008
1. Moderator, Symposium on Imaging Appropriateness, Quality and Payer Perspectives
 2. Participant, Symposium on Improving Hospital-Level Heart Failure 30-Day Mortality
- 58th Annual Scientific Session, Orlando, FL, Mar 28-31,2009
1. Participant, Plenary Session on Valvular Heart Disease
 2. Moderator, Technology Update: Myocardial Diseases and Heart Failure
 3. Participant, Master Clinician Session
 4. How To Session, Timing of Valvular Intervention
 5. Participant, Symposium on Guidelines Controversies: Past, Present, and Future – Impact on Patient Care
- 59th Annual Scientific Session, Atlanta, GA, Mar 14-16,2010
1. Participant, Cardiovascular Conference Focus on the Middle East: Reducing Risk of CV Disease
 2. Moderator, Symposium on Timing of Surgery for Severe Valvular Heart Disease
 3. Participant, Symposium on Valvular Heart Disease and Atrial Fibrillation
 4. Participant, Spotlight Session on Detection of Coronary Artery Disease
 5. Moderator, Original Contributions Session, Factors Associated with Outcome in Acute and Chronic Ischemia
 6. Moderator, Spotlight Session on Assessment of Myocardial Viability
- 60th Annual Scientific Session, New Orleans, LA, Apr 3-5,2011
1. Panelist, Late Breaking Clinical Trial Session: The PARTNER Trial
 2. Presenter, Later Breaking Clinical Trial Session: Myocardial Viability in STICH Trial
 3. Participant, Symposium on TAVI: What Have We Learned?
 4. Participant, Spotlight Session on Detection of Coronary Artery Disease
 5. Moderator, Spotlight Session on Assessment of Myocardial Viability
- 61st Annual Scientific Session, Chicago, IL, Mar 24-27,2012
1. Presenter, Symposium on Revascularization in Ischemic Heart Disease: Integrating New Evidence
 2. Presenter, Symposium on Radionuclide Imaging in the Heart Failure Patient
 3. Panelist, Symposium on Impact of Healthcare Policy on the Academic Cardiovascular Mission
 4. Moderator, Meet the Experts Session, Aortic Regurgitation / Bicuspid Aortic Valve

American College of Physicians/American Society of Internal Medicine

Annual Session, New Orleans, LA, Apr 22-25,1999

1. New Clinical Guidelines for the Diagnosis and Management of Patients with Cardiovascular Disease

Annual Session, New Orleans, LA, Apr 21-24,2004

1. Update on Cardiology

Annual Session, Philadelphia, PA, Apr 4-7,2006

1. Evidence based management of valvular heart disease

U.S. Department of Health and Human Services

1. Annual Scientific Meeting of the Specialized Centers of Research on Ischemic Heart Disease (SCOR), NHLBI, Bethesda, MD, May 8-9,1980
2. Silent Coronary Artery Disease: Working Conference on Recognition, Pathogenesis, and Management Options, NHLBI, Bethesda, MD, Apr 17-18,1986
3. NIH Centennial Scientific Symposium, Bethesda, MD, Oct 16,1987
4. Workshop on Medical and Cellular Implications of Myocardial Stunning, Hibernation, and Pre-Conditioning, NHLBI, Columbia, MD, Jul 2-3,1996
5. Workshop on Coronary Revascularization: State-of-the-Art and Research Opportunities, NHLBI, Crystal City, VA, Sep 20-21,1996
6. Chicago's Celebration of the 50th Anniversary of the National Heart, Lung, and Blood Institute, Chicago, IL, June 15,1998 (Organizing Committee)
7. Workshop on Women's Ischemia Syndrome Evaluation (WISE), NHLBI, Baltimore, MD, Oct 2-4,2002 (Workshop co-chair)
8. SPARK II Conference, NHLBI, Bethesda, MD, Jan 20,2003
9. Annual Meeting of Public Interest Organizations, NHLBI, Bethesda, MD, Feb 5, 2003
10. Think Tank on Enhancing NHLBI Obesity Research, Bethesda, MD, March 23-24,2003
11. Steps to a Healthier US: Putting Prevention First, Department of Health and Human Services, Baltimore, MD, Apr 15-16,2003
12. Conference on Scientific Issues Related to the Definition of the Metabolic Syndrome, NHLBI-American Heart Association, May 7-8,2003
13. Second National CDC Prevention Conference on Heart Disease and Stroke, Center for Disease Control and Prevention, Atlanta, GA, Aug 17-19,2004
14. NHLBI Working Group on Valvular Heart Disease, Nov 14,2005
15. NHLBI Strategic Planning Level I Working Group on Coronary Artery Disease and Atherosclerosis, Bethesda, MD, June 27-28,2006 (chair, imaging subcommittee)
16. NHLBI Strategic Planning Level I Working Group on Valvular and Congenital Diseases, Bethesda, MD, July 27-28,2006
17. NHLBI Strategic Planning Level II meeting, Bethesda, MD, Oct 16-17,2006
18. NHLBI Lipid Expert Panel meeting, Bethesda, MD, Nov 21,2006
19. NHLBI Workshop on Outcomes in Cardiovascular Imaging, Bethesda, MD, July 21-22,2008
20. NHLBI Working Group on Strategies to Prevent the Morphologic and Clinical Manifestations of Genetically-Mediated Hypertrophic Cardiomyopathy, Sept 4-5,2008
21. NHLBI Working Group on NO Enhancement: New Strategies to Treat Heart Failure, July 29-30,2009 (Workshop co-chair)
22. NHLBI Working Group on Translation of Cardiovascular Molecular Imaging, Sep 16-17,2009 (Workshop co-chair)
23. NHLBI/HRS Working Group on Sudden Cardiac Death, Sept 29-30,2009 (Workshop co-chair)
24. NIBIB/RSNA Workshop on Comparative Effectiveness Research for Diagnostic Imaging, Apr 22-23,2010

Invited presentations at symposia, academic medical centers, and international meetings are listed on pages 39-60

Bibliographical References

1. Tedesco TA, Bonow RO, Mellman WJ. Vertical column electrophoresis in Sephadex G-200. *Analytical Biochem* 1972;46:173-180
2. Tedesco TA, Bonow RO, Miller K, Mellman WJ. Galactokinase: evidence for a new racial polymorphism. *Science* 1972;178:176-177
3. Bonow RO, Josephson ME. Spontaneous gap phenomenon in atrioventricular conduction produced by His bundle extrasystoles. *J Electrocardiology* 1977;10:283-286
4. Henry WL, Bonow RO, Borer JS, Ware JH, Kent KM, Redwood DR, McIntosh CL, Morrow AG, Epstein SE. Observations on the optimal time for operation for aortic regurgitation. I. Evaluation of the results of aortic valve replacement in symptomatic patients. *Circulation* 1980;61:471-483
5. Henry WL, Bonow RO, Rosing DR, Epstein SE. Observations on the optimal time for operative intervention for aortic regurgitation. II. Serial echocardiographic evaluation of asymptomatic patients. *Circulation* 1980;61:424-492
6. Henry WL, Bonow RO, Borer JS, Kent KM, Ware JH, Glancy DL, Redwood DR, Itscoitz SB, McIntosh CL, Conkle DM, Morrow AG, Epstein SE. Evaluation of aortic valve replacement in patients with valvular aortic stenosis. *Circulation* 1980;61:814-825
7. Bacharach SL, Green MV, Borer JS, Ostrow HG, Bonow RO, Farkas SP, Johnston GS. Validity of ECG gating: calculation of parameters describing left ventricular function. *J Nucl Med* 1980;21:307-313
8. Goldstein RE, Davenport NJ, Capurro NC, Lipson LC, Bonow RO, Shulman NR, Epstein SE. Relative effects of sulfipyrazone and ibuprofen on canine platelet function and prostaglandin-mediated coronary vasodilation. *J Cardiovasc Pharmacol* 1980;2:399-409
9. Bonow RO, Borer JS, Rosing DR, Henry WL, Pearlman AS, McIntosh CL, Morrow AG, Epstein SE. Preoperative exercise capacity in patients with aortic regurgitation as a predictor of postoperative left ventricular function and long-term prognosis. *Circulation* 1980;62:1280-1290
10. Capurro NC, Lipson LC, Bonow RO, Goldstein RE, Shulman NR, Epstein SE. Relative effects of aspirin on platelet aggregation and prostaglandin-mediated coronary vasodilation in the dog. *Circulation* 1980;62:1221-1238
11. Lipson LC, Bonow RO, Schaefer EJ, Brewer HB, Lindgren FT. Effects of exercise conditioning on plasma high density lipoproteins (HDL) and other lipoproteins. *Atherosclerosis* 1980;37:529-538
12. Bonow RO, Kent KM, Rosing DR, Lipson LC, Borer JS, McIntosh CL, Morrow AG, Epstein SE. Aortic valve replacement without myocardial revascularization in patients with combined aortic valvular and coronary artery disease. *Circulation* 1981;63:243-251
13. Maron BJ, Gottdiener JS, Bonow RO, Epstein SE. Hypertrophic cardiomyopathy with unusual locations of left ventricular hypertrophy undetectable by M-mode echocardiography. *Circulation* 1981;63:409-418
14. Bonow RO, Lipson LC, Sheehan FH, Capurro NC, Isner JM, Roberts WC, Goldstein RE, Epstein SE. Lack of effect of aspirin on myocardial infarct size in the dog. *Am J Cardiol* 1981;47:258-264
15. Bacharach SL, Green MV, Bonow RO, Findley SF, Ostrow HG, Johnston GS. Measurement of ventricular function by ECG-gating during atrial fibrillation. *J Nucl Med* 1981;22:226-231
16. Gottdiener JS, Mathisen DJ, Borer JS, Bonow RO, Myers CE, Bacharach SL, Green MV, Rosenberg SA. Doxorubicin cardiotoxicity: assessment of late left ventricular dysfunction by radionuclide cineangiography. *Ann Intern Med* 1981;94:430-435
17. Davenport NJ, Goldstein RE, Capurro NC, Lipson LC, Bonow RO, Shulman NR, Epstein SE. Sulfipyrazone and aspirin increase epicardial coronary collateral flow in dogs. *Am J Cardiol* 1981;47:848-854
18. Bonow RO, Borer JS, Rosing DR, Green MV, Bacharach SL, Kent KM. Left ventricular functional reserve in adult patients with atrial septal defect: pre and postoperative studies. *Circulation* 1981;63:1315-1322
19. Bonow RO, Bacharach SL, Green MV, Kent KM, Rosing DR, Lipson LC, Leon MB, Epstein SE. Impaired left ventricular diastolic filling in patients with coronary artery disease: assessment with radionuclide cineangiography. *Circulation* 1981;64:315-323
20. Lipson LC, Kent KM, Rosing DR, Bonow RO, McIntosh CL, Condit JS, Epstein SE, Morrow AG. Hemodynamic evaluation of porcine heterographs in the mitral position for more than five years. *Circulation* 1981;64:397-401
21. Leon MB, Rosing DR, Bonow RO, Lipson LC, Epstein SE. Clinical efficacy of verapamil alone and combined with propranolol in treatment of patients with chronic stable angina pectoris. *Am J Cardiol* 1981;48:131-139
22. Green MV, Ostrow HG, Bacharach SL, Allen SI, Bonow RO, Johnston GS. Real-time scintillation probe measurement of left ventricular function. *Nucl Med* 1981;20:116-123
23. Bonow RO, Rosing DR, Bacharach SL, Green MV, Kent KM, Lipson LC, Maron BJ, Leon MB, Epstein SE. Effects of verapamil on left ventricular systolic function and diastolic filling in patients with hypertrophic cardiomyopathy. *Circulation* 1981;64:787-795
24. Rosing DR, Condit JC, Maron BJ, Kent KM, Lipson LC, Bonow RO, Leon MB, Epstein SE. Verapamil therapy: a new approach to the pharmacologic treatment of hypertrophic cardiomyopathy. III. Effects of chronic administration. *Am J Cardiol* 1981;48:545-553
25. Kent KM, Bonow RO, Rosing DR, Lipson LC, McIntosh CL, Epstein SE. Improved myocardial function during exercise after successful percutaneous transluminal coronary angioplasty. *N Engl J Med* 1982;306:441-446
26. Bonow RO, Leon MB, Rosing DR, Kent KM, Lipson LC, Bacharach SL, Green MV, Epstein SE. Effects of verapamil and propranolol on left ventricular systolic function and diastolic filling in patients with coronary artery disease: radionuclide angiographic studies at rest and during exercise. *Circulation* 1982;65:1337-1350

27. Bacharach SL, Green MV, Bonow RO, DeGraaf CN, Johnston GS. A method for objective evaluation of functional images. *J Nucl Med* 1982;23:285-290
28. Kent KM, Rosing DR, Ewels CJ, Lipson LC, Bonow RO, Epstein SE. The natural history of asymptomatic or mildly symptomatic patients with coronary artery disease. *Am J Cardiol* 1982;49:1823-1831
29. Maron BJ, Bonow RO, Seshagiri TN, Roberts WC, Epstein SE. Hypertrophic cardiomyopathy with ventricular septal hypertrophy localized to the apical region of the left ventricle ("apical hypertrophic cardiomyopathy"). *Am J Cardiol* 1982;49:1838-1348
30. Packer M, Leon MB, Bonow RO, Kieval J, Rosing DR, Balasubramanian V. Hemodynamic and clinical effects of combined therapy of verapamil and propranolol in patients with angina pectoris. *Am J Cardiol* 1982;50:903-912
31. Bonow RO, Kent KM, Rosing DR, Lipson LC, Bacharach SL, Green MV, Epstein SE. Improved left ventricular diastolic filling in patients with coronary artery disease after percutaneous transluminal coronary angioplasty. *Circulation* 1982;66:1159-1167
32. Dresdale AR, Barr LH, Bonow RO, Mathisen DJ, Myers CE, Schwartz DE, D'Angelo T, Rosenberg SA. Prospective randomized study of the role of N-acetyl cysteine in reversing doxorubicin induced cardiomyopathy. *Am J Clin Oncol* 1982;5:657-663
33. Green MV, Juni JE, Goose PW, Bacharach SL, Bonow RO. A method for surveying patient populations for differences in global left ventricular function. *Computers in Cardiology: IEEE Computer Society* 1982;307-310
34. Douglas MA, Bailey JJ, van Rijk PP, Bacharach SL, Bonow RO, Green MV. Analysis of regional function in radionuclide ventriculography: physiologic signal, scintillation noise, and regional size. *Computers in Cardiology: IEEE Computer Society* 1982;315-318
35. Bonow RO, Kent KM, Rosing DR, Epstein SE. Timing of operation for chronic aortic regurgitation. *Am J Cardiol* 1982;50:25-336
36. Bonow RO, Rahimtoola SH. Controversies in cardiology. Valve replacement is indicated in asymptomatic patients with aortic regurgitation and left ventricular dysfunction. *Hosp Pract* 1982;17:183-194
37. Dresdale AR, Bonow RO, Wesley R, Palmeri ST, Barr LH, Mathisen DJ, D'Angelo T, Rosenberg SA. Prospective evaluation of doxorubicin-induced cardiomyopathy resulting from post-surgical adjuvant treatment of patients with soft tissue sarcomas. *Cancer* 1983;52:51-60
38. Gascon P, Ley TJ, Toltzis RJ, Bonow RO. Spontaneous subarachnoid hemorrhage simulating acute transmural myocardial infarction. *Am Heart J* 1983;105:511-514
39. Bonow RO, Frederick TM, Bacharach SL, Green MV, Goose PW, Maron BJ, Rosing DR. Atrial systole and left ventricular filling in patients with hypertrophic cardiomyopathy: effect of verapamil. *Am J Cardiol* 1983;51:1386-1391
40. Spirito P, Maron BJ, Bonow RO, Epstein SE. Prevalence and significance of the ST segment response to exercise in an athletic population. *Am J Cardiol* 1983;51:1663-1666
41. Springer RM, Gheorghide M, Chakko CS, Bell GM, Cannon RO, Urquhart J, Jones M, Bonow RO. Platypnea and right to left shunting after lobectomy. *Am J Cardiol* 1983;51:1802-1803
42. Myers C, Bonow RO, Palmeri ST, Jenkins J, Gorden B, Locker G, Coroshaw J, Epstein SE. A randomized controlled trial assessing the prevention of adriamycin cardiomyopathy by N-acetylcysteine. *Sem Oncology* 1983; 10(suppl I):53-55
43. Bonow RO, Rosing DR, McIntosh CL, Jones M, Maron BJ, Lan KKJ, Lakatos E, Bacharach SL, Green MV, Epstein SE. The natural history of asymptomatic patients with aortic regurgitation and normal left ventricular function. *Circulation* 1983;68:509-517
44. Bonow RO, Ostrow HG, Rosing DR, Lipson LC, Kent KM, Bacharach SL, Green MV. Verapamil effects on left ventricular systolic and diastolic function in patients with hypertrophic cardiomyopathy: pressure-volume analysis with a non-imaging scintillation probe. *Circulation* 1983;68:1062-1073
45. Vitale DF, Bacharach SL, Green MV, Bonow RO, Watson RM, Findley SF, Jones AE. Assessment of regional left ventricular function by sector analysis: a method for objective evaluation of radionuclide blood pool studies. *Am J Cardiol* 1983;52:1112-1119
46. Bacharach SL, Green MV, Vitale DF, White GG, Douglas MA, Bonow RO, Larson SM. Optimal Fourier filtering on cardiac data: a minimum error method. *J Nucl Med* 1983; 24:1176-1184
47. Green MV, Findley SF, Bonow RO, Bacharach SL, Juni JE. Left ventricular flow-volume relations in normal subjects and patients with heart disease. *Computers in Cardiology: IEEE Computer Society* 1983;295-298
48. Bonow RO, Rosing DR, Epstein SE. The acute and chronic effects of verapamil on left ventricular function in patients with hypertrophic cardiomyopathy. *Eur Heart J* 1983;4 (suppl F):57-65
49. Maron BJ, Bonow RO, Epstein SE, Wyngaarden MK, Hurley YE. Obstructive hypertrophic cardiomyopathy associated with minimal left ventricular hypertrophy. *Am J Cardiol* 1984;53:377-378
50. Ciro E, Maron BJ, Bonow RO, Cannon RO, Epstein SE. Relation between marked changes in left ventricular outflow tract gradient and disease progression in patients with hypertrophic cardiomyopathy. *Am J Cardiol* 1984;53:1103-1109
51. Silver MA, Bonow RO, Deglin SM, Maron BJ, Cannon RO, Roberts WC. Acquired left ventricular endocardial constriction from massive mural calcific deposits: a newly recognized cause of impairment to left ventricular filling. *Am J Cardiol* 1984;53:1468-1470
52. Rosing DR, Van Raden MJ, Mincemoyer RM, Bonow RO, Bourassa MG, David PR, Ewels CJ, Kent KM, Detre KM. Exercise electrocardiographic and functional responses after percutaneous transluminal coronary angioplasty. *Am J Cardiol* 1984;53:36C-41C
53. Bonow RO, Rosing DR, Maron BJ, McIntosh CL, Jones M, Bacharach SL, Green MV, Clark RE, Epstein SE. Reversal of left ventricular dysfunction after aortic valve replacement for aortic regurgitation: influence of duration of left ventricular dysfunction. *Circulation* 1984;70:570-579
54. Bonow RO, Kent KM, Rosing DR, Lan KKJ, Lakatos E,

- Borer JS, Bacharach SL, Green MV, Epstein SE. Exercise-induced ischemia in mildly symptomatic patients with coronary artery disease: identification of subgroups at risk of death during medical therapy. *N Engl J Med* 1984; 311:1339-1345
55. Bailey JJ, Douglas MA, van Rijk PP, Green MV, Bacharach SL, Bonow RO. Investigation of parameters of regional function in nuclear ventriculography. *Computers in Cardiology*: IEEE Computer Society 1984;65-70
 56. Bacharach SL, Green MV, Bonow RO, Larson SM. Maximal filling rate during exercise: RR interval normalization. *Computers in Cardiology*: IEEE Computer Society 1984;207-210
 57. Green MV, Findley SF, Bonow RO, Bacharach SL. The amount of early left ventricular filling in resting normal subjects and patients with coronary artery disease and normal systolic function. *Computers in Cardiology*: IEEE Computer Society 1984;215-217
 58. Bonow RO, Green MV, Bacharach SL. Radionuclide angiography during exercise in patients with coronary artery disease: diagnostic, prognostic, and therapeutic implications. *Int J Cardiol* 1984;5:229-233
 59. Bonow RO. Noninvasive evaluation of left ventricular diastolic function by radionuclide angiography: limitations and applications. *Int J Cardiol* 1984;5:659-663
 60. Bonow RO. Timing of operation for chronic aortic regurgitation: influence of left ventricular function on clinical management. *Herz* 1984;9:319-332
 61. Cannon RO, Bonow RO, Bacharach SL, Green MV, Rosing DR, Leon MB, Watson RM, Epstein SE. Left ventricular dysfunction in patients with angina pectoris, normal epicardial coronary arteries and abnormal vasodilator reserve. *Circulation* 1985;71:218-226
 62. Cannon RO, Rosing DR, Maron BJ, Leon MB, Bonow RO, Watson RM, Epstein SE. Myocardial ischemia in hypertrophic cardiomyopathy: contribution of inadequate coronary vasodilator reserve and elevated filling pressures. *Circulation* 1985;71:234-243
 63. Bonow RO, Vitale DF, Bacharach SL, Frederick TM, Kent KM, Green MV. Asynchronous left ventricular regional function and impaired global diastolic filling in coronary artery disease: reversal after coronary angioplasty. *Circulation* 1985;71:297-307
 64. Bonow RO, Dilsizian V, Rosing DR, Maron BJ, Bacharach SL, Green MV. Verapamil-induced improvement in left ventricular diastolic filling and increased exercise tolerance in patients with hypertrophic cardiomyopathy: short- and long-term effects. *Circulation* 1985;72:853-864
 65. Betocchi S, Cannon RO, Watson RM, Bonow RO, Ostrow HG, Epstein SE, Rosing DR. Effects of sublingual nifedipine on hemodynamics and systolic and diastolic function in patients with hypertrophic cardiomyopathy. *Circulation* 1985;72:1001-1007
 66. Bonow RO, Picone AL, McIntosh CL, Rosing DR, Maron BJ, Clark RE, Epstein SE. Survival and functional results after valve replacement for aortic regurgitation from 1976 to 1983: influence of preoperative left ventricular function. *Circulation* 1985;72:1244-1256
 67. Bacharach SL, Green MV, Bonow RO, Pace L, Brunetti A, Vitale DF, Larson SM. Combined amplitude and phase analysis: detection of cardiac wall motion abnormalities. *Computers in Cardiology*: IEEE Computer Society 1985; 61-66
 68. Vitale DF, Green MV, Bacharach SL, Bonow RO, Findley SF, Jones BA, Pelaggi N, Gerando G, Rengo F. Regional left ventricular function: objective detection algorithm by radionuclide blood pool studies. *Computers in Cardiology*: IEEE Computer Society 1985;475-478
 69. Epstein SE, Cannon RO, Watson RM, Leon MB, Bonow RO, Rosing DR. Dynamic coronary obstruction as a cause of angina: implications regarding therapy. *Am J Cardiol* 1985;55:61B-68B
 70. Leon MB, Rosing DR, Bonow RO, Epstein SE. Combination therapy with calcium channel blockers in patients with chronic stable angina. *Am J Cardiol* 1985;55:69B-80B
 71. Bonow RO. Impaired left ventricular diastolic function in hypertrophic cardiomyopathy and coronary artery disease: effect of calcium channel blocking agents. *Am J Cardiol* 1985;55:172B-178B
 72. Rosing DR, Indanpaan-Heikkila U, Maron BJ, Bonow RO, Epstein SE. The use of calcium channel blocking drugs in the treatment of patients with hypertrophic cardiomyopathy. *Am J Cardiol* 1985;55:185B-195B
 73. Bonow RO, Epstein SE. Indications for coronary artery bypass surgery: implications of the multicenter randomized trials. *Circulation* 1985;72(suppl V):V-23-30
 74. Cheitlin MD, Bonow RO, Parmley WW, Roberts WC, Swan HJC, Williams JF. Task force II. Acquired valvular heart disease. 16th Bethesda Conference. Cardiovascular abnormalities in the athlete: recommendations regarding eligibility for competition. *J Am Coll Cardiol* 1985;6:1209-1214
 75. Betocchi S, Bonow RO, Bacharach SL, Rosing DR, Maron BJ, Green MV. Isovolumic relaxation period in hypertrophic cardiomyopathy: assessment by radionuclide angiography. *J Am Coll Cardiol* 1986;7:74-81
 76. Cannon RO, Schenke WH, Bonow RO, Leon MB, Rosing DR. Left ventricular pulsus alternans in patients with hypertrophic cardiomyopathy and severe obstruction to left ventricular outflow. *Circulation* 1986;73:276-285
 77. Spirito P, Maron BJ, Bonow RO. Noninvasive assessment of left ventricular diastolic function: a comparative analysis of Doppler echocardiographic and radionuclide angiographic techniques. *J Am Coll Cardiol* 1986;7:518-526
 78. Palmeri ST, Bonow RO, Myers C, Sieppe CA, Jenkins J, Bacharach SL, Green MV, Rosenberg SA. Prospective evaluation of doxorubicin cardiotoxicity by serial rest and exercise radionuclide angiography. *Am J Cardiol* 1986;58: 607-613
 79. Spirito P, Maron BJ, Bonow RO, Epstein SE. Severe functional limitation in patients with hypertrophic cardiomyopathy and only mild localized left ventricular hypertrophy. *J Am Coll Cardiol* 1986;8:537-544
 80. Ettinghausen SE, Bonow RO, Palmeri ST, Sieppe CA, Steinberg SM, White DE, Rosenberg SA. Prospective study of adjuvant doxorubicin cardiomyopathy in soft tissue sarcomas. *Ann Surg* 1986;121:1445-1451
 81. Bacharach SL, Ostrow HG, Bonow RO, Cannon RO, Leon MB, White GG, Green MV, Zeeberg BR, Larson SM. ECG gated pressure volume relationships utilizing scintigraphic

- image data. *Computers in Cardiology*: IEEE Computer Society 1986;353-356
82. Bonow RO. Patients with severe valvular incompetence and left ventricular dysfunction should undergo operation. *Z Kardiologie* 1986;75(suppl 2):124-132
 83. Rosing DR, Cannon RO, Watson RM, Bonow RO, Mincemoyer RM, Ewels CJ, Leon MB, Lakatos E, Epstein SE, Kent KM. Three-year anatomic, functional, and clinical follow-up after successful percutaneous transluminal coronary angioplasty. *J Am Coll Cardiol* 1987;9:1-7
 84. Tracy CM, Winkler JA, Brittain E, Leon MB, Epstein SE, Bonow RO. Determinants of ventricular arrhythmias in mildly symptomatic patients with coronary artery disease and influence of inducible left ventricular dysfunction on arrhythmia frequency. *J Am Coll Cardiol* 1987;9:483-488
 85. Bonow RO, Vitale DF, Maron BJ, Bacharach SL, Frederick TM, Green MV. Regional systolic and diastolic asynchrony and impaired global left ventricular diastolic filling in hypertrophic cardiomyopathy: effect of verapamil. *J Am Coll Cardiol* 1987;9:1108-111
 86. Mazzotta G, Scopinaro G, Falcidieno M, Claudiani F, DeCaro E, Bonow RO, Vecchio C. Abnormal exercise blood pressure responses may not always represent exercise-induced myocardial dysfunction after recent myocardial infarction. *Am J Cardiol* 1987;59:1256-1260
 87. Spirito P, Maron BJ, Bonow RO, Epstein SE. Occurrence and significance of progressive left ventricular wall thinning and relative cavity dilatation in patients with hypertrophic cardiomyopathy. *Am J Cardiol* 1987;60:123-129
 88. Bonow RO. Exercise testing and radionuclide procedures in high risk populations. *Circulation* 1987;75 (suppl II):II-18-19
 89. Maron BJ, Bonow RO, Cannon RO, Leon MB, Epstein SE. Hypertrophic cardiomyopathy: interrelation of pathophysiology, clinical manifestations and therapy. *N Engl J Med* 1987;316:780-789,844-852
 90. Bonow RO, Epstein SE. Is preoperative left ventricular function predictive of survival and functional results after aortic valve replacement for chronic aortic regurgitation? *J Am Coll Cardiol* 1987;10:713-716
 91. Maron BJ, Spirito P, Green KJ, Wesley YB, Bonow RO, Arce J. Noninvasive assessment of left ventricular relaxation and filling in patients with hypertrophic cardiomyopathy. *J Am Coll Cardiol* 1987;10:733-742
 92. O'Gara PT, Bonow RO, Maron BJ, Damske BA, Van Lingen A, Bacharach SL, Larson SM, Epstein SE. Myocardial perfusion abnormalities assessed by thallium-201 emission computed tomography in patients with hypertrophic cardiomyopathy. *Circulation* 1987;76:1214-1223
 93. Bonow RO, Bacharach SL, Green MV, Lafreniere RL, Epstein SE. Prognostic implications of symptomatic vs asymptomatic (silent) myocardial ischemia induced by exercise in mildly symptomatic and in asymptomatic patients with angiographically-documented coronary artery disease. *Am J Cardiol* 1987;60:778-783
 94. Bonow RO, Vitale DF, Bacharach SL, Maron BJ, Green MV. Effects of aging on asynchronous left ventricular regional function and global ventricular filling in normal human subjects. *J Am Coll Cardiol* 1988;11:50-58
 95. Bacharach SL, Green MV, Bonow RO, Findley SF, Daube ME, Larson SM. The effect of energy window on cardiac ejection fraction. *J Nucl Med* 1988;29:385-391
 96. Betocchi S, Bonow RO, Cannon RO, Lesko LJ, Ostrow HG, Watson RM, Rosing DR. Relation between serum nifedipine concentration and hemodynamic effects in patients with nonobstructive hypertrophic cardiomyopathy. *Am J Cardiol* 1988;61:830-835
 97. Dilsizian V, Bonow RO, Cannon RO, Tracy CM, Vitale DF, McIntosh CL, Clark RE, Bacharach SL, Green MV. The effect of coronary artery bypass grafting on left ventricular systolic function at rest: evidence for preoperative subclinical myocardial ischemia. *Am J Cardiol* 1988;61:1248-1254
 98. Bonow RO, Dodd JT, Maron BJ, O'Gara PT, White GG, McIntosh CL, Clark RE, Epstein SE. Long-term serial changes in left ventricular function and reversal of ventricular dilatation after valve replacement for chronic aortic regurgitation. *Circulation* 1988;78:1108-1120
 99. Brush JE, Cannon RO, Schenke WH, Bonow RO, Leon MB, Maron BJ, Epstein SE. Microvascular angina in patients with hypertension without left ventricular hypertrophy. *N Engl J Med* 1988;319:1302-1307
 100. Kalan JM, McIntosh CL, Bonow RO, Roberts WC. Development of severe stenosis in a previously purely regurgitant congenitally bicuspid aortic valve. *Am J Cardiol* 1988;62:988-989
 101. Bacharach SL, Cuocolo A, Bonow RO, Carson RE, Unger EF, Sheffield C, Finn R, Stein S, Herscovitch P, Green MV. Arterial blood concentration curves by cardiac PET without arterial sampling or image reconstruction. *Computers in Cardiology*:IEEE Computer Society 1988;219
 102. Epstein SE, Quyyumi AA, Bonow RO. Myocardial ischemia: silent or symptomatic. *N Engl J Med* 1988; 318:1038-1042
 103. Bonow RO. Prognostic implications of exercise radionuclide angiography in patients with coronary artery disease. *Mayo Clin Proc* 1988;63:630-634
 104. Bonow RO. Exercise-induced silent myocardial ischemia: prognostic implications. *J Angina Silent Ischemia* 1988;3: 8-9
 105. Bonow RO. Stratification of high risk patients by nuclear cardiology techniques. *Curr Opin Cardiol* 1988;3:511- 519
 106. Bonow RO. Exercise radionuclide angiography. *Curr Opin Cardiol* 1988;3:937-945
 107. Betocchi S, Bonow RO, Perrone-Filardi P, Rosing DR, Chiariello M. Diastolic function in hypertrophic cardiomyopathy. *Cardiologia* 1988;33:741-746
 108. Lee RE, Lotze MT, Skibber JM, Tucker EE, Bonow RO, Ognibene FP, Carrasquillo JA, Shelhammer JH, Parillo JE, Rosenberg SA. Cardiorespiratory effects of immunotherapy with interleukin-2. *J Clin Oncol* 1989;7:7-20
 109. Udelson JE, Cannon RO, Bacharach SL, Rumble TF, Bonow RO. Beta-adrenergic stimulation with isoproterenol enhances left ventricular diastolic performance in hypertrophic cardiomyopathy despite potentiation of myocardial ischemia: comparison with rapid atrial pacing. *Circulation* 1989;79:371-382
 110. Mazzotta G, Bonow RO, Pace L, Brittain E, Epstein SE. Relation between exertional ischemia and prognosis in mildly symptomatic patients with single or double vessel coronary artery disease and left ventricular dysfunction at

- rest. *J Am Coll Cardiol* 1989;13:567-573
111. Cannon RO, McIntosh CL, Schenke WH, Maron BJ, Bonow RO, Epstein SE. Effect of surgical reduction in left ventricular outflow obstruction on hemodynamics, coronary flow and myocardial metabolism in hypertrophic cardiomyopathy. *Circulation* 1989;79:766-775
 112. Bonow RO. Left ventricular structure and function in aortic valve disease. *Circulation* 1989;79:966-969
 113. Udelson JE, Bonow RO, O'Gara PT, Maron BJ, Van Lingen A, Bacharach SL, Epstein SE. Verapamil prevents silent myocardial perfusion abnormalities during exercise in asymptomatic patients with hypertrophic cardiomyopathy. *Circulation* 1989;79:1052-1060
 114. Bonow RO. Left ventricular ejection dynamics and outflow obstruction in hypertrophic cardiomyopathy. *J Am Coll Cardiol* 1989;13:1280-1282
 115. Epstein SE, Quyyumi AA, Bonow RO. Sudden cardiac death without warning: possible mechanisms and implications for screening asymptomatic populations. *N Engl J Med* 1989;321:320-324
 116. Bonow RO. Effects of aging on cardiovascular function. *Cardiovasc Rev Report* 1989;10(suppl):10-14
 117. Dilsizian V, Cannon RO, Tracy CM, McIntosh CL, Clark RE, Bonow RO. Enhanced regional left ventricular function after distant coronary bypass via improved collateral flow. *J Am Coll Cardiol* 1989;14:312-318
 118. Brush JE, Udelson JE, Bacharach SL, Cannon RO, Leon MB, Rumble TF, Bonow RO. Comparative effects of verapamil and nitroprusside on left ventricular function in patients with hypertension. *J Am Coll Cardiol* 1989;14:515-522
 119. Bonow RO, Bacharach SL, Crawford-Green C, Green MV. Influence of temporal smoothing on quantitation of left ventricular function by gated blood pool scintigraphy. *Am J Cardiol* 1989;64:921-925
 120. Fananapazir L, Tracy CM, Leon MB, Winkler JB, Cannon RO, Bonow RO, Maron BJ, Epstein SE. Electrophysiologic abnormalities in patients with hypertrophic cardiomyopathy: a consecutive analysis in 155 patients. *Circulation* 1989;80:1259-1268
 121. Pace L, Bacharach SL, Bonow RO, Cannon RO, Green MV, Larson SM. Improved diagnosis of coronary artery disease by combining indices of left ventricular function derived from radionuclide angiography. *J Nucl Med* 1989;30:1966-1971
 122. Bacharach SL, Bonow RO, Green MV. Comparison of fixed and variable temporal resolution methods for creating gated cardiac blood pool image sequences. *J Nucl Med* 1990;31:38-42
 123. Cuocolo A, Sax FL, Brush JE, Maron BJ, Bacharach SL, Bonow RO. Left ventricular hypertrophy and impaired diastolic filling in essential hypertension: diastolic mechanisms for systolic dysfunction during exercise. *Circulation* 1990;81:978-986
 124. Dilsizian V, Rocco TP, Bonow RO, Fischman AJ, Boucher CA, Strauss HW. The utility of cardiac blood pool imaging in noncoronary heart disease. *J Nucl Med* 1990;31:10-22
 125. Bonow RO. Regional left ventricular nonuniformity: effects on left ventricular diastolic function in ischemic heart disease, in hypertrophic cardiomyopathy, and in the normal heart. *Circulation* 1990;81(suppl III):III-54-65
 126. Bonow RO, De Rose, Pelliccia A, Rost R, Zeppilli P. Advancements in cardiovascular imaging in sports cardiology: a meeting with the experts. *Cardiovasc Imaging* 1990;2:97-103
 127. Hennein HA, Swain JA, McIntosh CL, Bonow RO, Stone CD, Clark RE. Comparative assessment of chordal preservation versus chordal resection during mitral valve replacement. *J Thorac Cardiovasc Surg* 1990;99:828-837
 128. Dilsizian V, Rocco TP, Freedman NMT, Leon MB, Bonow RO. Enhanced detection of ischemic but viable myocardium by the reinjection of thallium after stress-redistribution imaging. *N Engl J Med* 1990;323:141-146
 129. Udelson JE, Bacharach SL, Cannon RO, Bonow RO. Minimum left ventricular pressure during beta-adrenergic stimulation in human subjects: evidence for elastic recoil and diastolic "suction" in the normal heart. *Circulation* 1990;82:1174-1182
 130. Bacharach SL, Bonow RO, Cuocolo A, Perrone-Filardi P, Voipio-Pulkki LM, Carson RE, Frank JA, Maurea S, Scheffknecht B. Myocardial blood flow by PET: correction for spillover and partial volume. *Computers in Cardiology: IEEE Computer Society* 1990;53-56
 131. Kim R, Aw T, Bacharach SL, Bonow RO. Correlation of cardiac MRI and PET images using lung cavities as landmarks. *Computers in Cardiology: IEEE Computer Society* 1990;49-52
 132. Bonow RO, Dilsizian V, Cuocolo A, Bacharach SL. Identification of viable myocardium in patients with coronary artery disease and left ventricular dysfunction: comparison of thallium scintigraphy with reinjection and PET imaging with ¹⁸F-fluorodeoxyglucose. *Circulation* 1991;83:26-37
 133. Fananapazir L, Leon MB, Bonow RO, Tracy CM, Cannon RO, Epstein SE. Sudden death during empiric amiodarone therapy in symptomatic hypertrophic cardiomyopathy. *Am J Cardiol* 1991;67:169-174
 134. Perrone-Filardi P, Bacharach SL, Dilsizian V, Bonow RO. Impaired left ventricular filling and regional diastolic asynchrony at rest in coronary artery disease and relation to exercise-induced myocardial ischemia. *Am J Cardiol* 1991;67:356-360
 135. Dilsizian V, Smeltzer WR, Freedman NMT, Dextras R, Bonow RO. Thallium reinjection after stress-redistribution imaging: does 24 hour delayed imaging following thallium reinjection enhance detection of viable myocardium? *Circulation* 1991;83:1247-1255
 136. Cannon RO, Dilsizian V, O'Gara PT, Udelson JE, Bonow RO. Myocardial metabolic and hemodynamic significance of reversible thallium-201 perfusion defects in hypertrophic cardiomyopathy. *Circulation* 1991;83:1660-1667
 137. Bonow RO. Left ventricular diastolic function in hypertrophic cardiomyopathy. *Herz* 1991;16:13-21
 138. Epstein SE, Cannon RO, Bonow RO. Exercise testing in patients with microvascular angina. *Circulation* 1991;83(suppl III):III-73-76
 139. Cannon RO, Schenke WH, Quyyumi AA, Bonow RO, Epstein SE. Comparison of exercise testing with studies of coronary flow reserve in patients with microvascular angina. *Circulation* 1991;83 (suppl III):III-77-81

140. Bonow RO, Berman DS, Gibbons RJ, Johnson LL, Rumberger JA, Schwaiger M, Wackers FJ. Cardiac positron emission tomography. A report for health professionals from the Committee on Advanced Cardiac Imaging and Technology of the Council on Clinical Cardiology, American Heart Association. *Circulation* 1991;84:447-454
141. Bonow RO, Dilsizian V. Thallium-201 for assessing myocardial viability. *Semin Nucl Med* 1991;21:230-241
142. Marin-Neto JA, Bonow RO. Detection of viable myocardium: current goals in patients with ischemic heart disease and left ventricular dysfunction. *Arq Bras Cardiol* 1991;57:1-3
143. Bonow RO. Prognostic applications of exercise testing. *N Engl J Med* 1991;325:887-888
144. Bonow RO. Radionuclide angiographic evaluation of left ventricular diastolic function. *Circulation* 1991;84 (suppl I):I-208-215
145. Bonow RO. Radionuclide angiography in the management of aortic regurgitation. *Circulation* 1991;84(suppl I):296-302
146. Palmeri ST, Kempner KM, Power J, Bacharach SL, Choi BW, Bonow RO. Effects of percutaneous transluminal coronary angioplasty on exercise-induced changes in R-wave amplitude. *Am J Cardiol* 1991;68:114-115
147. Dilsizian V, Perrone-Filardi P, Cannon RO, Freedman NMT, Bacharach SL, Bonow RO. Comparison of exercise radionuclide angiography with thallium SPECT imaging for detection of significant narrowing of the left circumflex coronary artery. *Am J Cardiol* 1991;68:320-328
148. Green MV, Bacharach SL, Borer JS, Bonow RO. A theoretical comparison of first pass and gated equilibrium methods in the measurement of systolic left ventricular function. *J Nucl Med* 1991;32:1801-1807
149. Bonow RO, Lakatos E, Maron BJ, Epstein SE. Serial long-term assessment of the natural history of asymptomatic patients with chronic aortic regurgitation and normal left ventricular systolic function. *Circulation* 1991;84:1625-1635
150. Perrone-Filardi P, Bacharach SL, Bonow RO. Identification of viable myocardium in patients with chronic ischemic heart disease and left ventricular dysfunction: correlation of flow, metabolic activity, and regional function. *Cardiologia* 1991;36:299-307
151. Clyne CA, Arrighi JA, Maron BJ, Bonow RO, Cannon RO. Systemic and left ventricular hemodynamic responses to exercise stress of asymptomatic patients with significant aortic stenosis. *Am J Cardiol* 1991;68:1469-1476
152. Barest GD, Douglas MA, Misoviec A, Peronne-Filardi P, Mok DY, Bonow RO. Myocardial wall thickness and wall thickening from gated magnetic resonance images. *Computers in Cardiology:IEEE Computer Society* 1991;629-632
153. Dilsizian V, Freedman NMT, Bacharach SL, Perrone-Filardi P, Bonow RO. Regional thallium uptake in irreversible defects: magnitude of change in thallium activity after reinjection distinguishes viable from nonviable myocardium. *Circulation* 1992;85:627-634
154. Dilsizian V, Bonow RO. Differential uptake and apparent thallium-201 "washout" after thallium reinjection: options regarding early redistribution imaging before reinjection or late redistribution imaging after reinjection. *Circulation* 1992;85:1032-1038
155. Cannon RO, Dilsizian V, O'Gara PT, Udelson JE, Tucker E, Panza J, Fananapazir L, McIntosh CL, Wallace RB, Bonow RO. Impact of operative relief of outflow obstruction on thallium perfusion abnormalities in hypertrophic cardiomyopathy. *Circulation* 1992;85:1039-1045
156. Panza JA, Quyyumi AA, Diodati JG, Callahan TS, Bonow RO, Epstein SE. Long-term variation in myocardial ischemia during daily life in patients with stable coronary artery disease: relation to changes in exercise ischemic threshold. *J Am Coll Cardiol* 1992;19:500-506
157. Bonow RO. Determinants of exercise capacity in hypertrophic cardiomyopathy. *J Am Coll Cardiol* 1992;19:513-515
158. Perrone-Filardi P, Bacharach SL, Bonow RO. Effects of regional systolic asynchrony on left ventricular global diastolic function in patients with coronary artery disease. *J Am Coll Cardiol* 1992;19:739-744
159. Bonow RO, Dilsizian V. Thallium-201 and technetium-99m-sestamibi for assessing viable myocardium. *J Nucl Med* 1992;33:815-818
160. Bonow RO. Positron emission tomography versus thallium scintigraphy for assessment of viable myocardium. *J Nucl Biol Med* 1992;36:122-125
161. Bonow RO, Berman DS, Gibbons RJ, Johnson LL, Rumberger JA, Schwaiger M, Wackers FJ, Committee on Advanced Cardiac Imaging and Technology, Council on Clinical Cardiology, American Heart Association. Standardization of Cardiac Tomographic Imaging. *Circulation* 1992;86:338-339
162. Bonow RO, Udelson JE. Left ventricular diastolic dysfunction as a cause of congestive heart failure: mechanisms and management. *Ann Intern Med* 1992;117:502-510
163. Bonow RO, Dilsizian V. Assessing viable myocardium with thallium-201. *Am J Cardiol* 1992;70:10E-17E
164. Quyyumi AA, Panza JA, Diodati JG, Callahan TS, Epstein SE, Bonow RO. Relation between left ventricular function at rest and with exercise and silent myocardial ischemia. *J Am Coll Cardiol* 1992;19:962-967
165. McCord ME, Bacharach SL, Dilsizian V, Cuocolo A, Freedman NMT, Bonow RO. Misalignment between PET transmission and emission scans: its effect on myocardial imaging. *J Nucl Med* 1992;33:1209-1214
166. Perrone-Filardi P, Bacharach SL, Dilsizian V, Maurea S, Marin-Neto JA, Arrighi JA, Frank JA, Bonow RO. Metabolic evidence of viable myocardium in regions with reduced wall thickening and absent wall thickening in patients with chronic ischemic left ventricular dysfunction. *J Am Coll Cardiol* 1992;20:161-168
167. Perrone-Filardi P, Bacharach SL, Dilsizian V, Maurea S, Frank JA, Bonow RO. Regional left ventricular wall thickening: relation to regional uptake of ¹⁸F-fluorodeoxyglucose and ²⁰¹Tl in patients with chronic coronary artery disease and left ventricular dysfunction. *Circulation* 1992;86:1125-1137
168. Freedman NMT, Bacharach SL, McCord ME, Bonow RO. Spatially dependent deadtime losses in high count rate cardiac PET. *J Nucl Med* 1992;33:2226-2231
169. Mok DY, Bartlett ML, Bacharach SL, Voipio-Pulkki LM, Carson RE, Domanski MJ, Dilsizian V, Perrone-Filardi P,

- Bonow RO. Can partial volume effects be used to measure myocardial thickness and thickening? *Computers in Cardiology*:IEEE Computer Society 1992;195-198
170. Bacharach SB, Douglas MA, Carson RE, Kalkowski PJ, Freedman NMT, Perrone-Filardi P, Bonow RO. Three-dimensional registration of cardiac positron emission tomography attenuation scans. *J Nucl Med* 1993;34:311-321
171. Quyyumi AA, Panza JA, Diodati JG, Callahan TS, Bonow RO, Epstein SE. Prognostic implications of myocardial ischemia during daily life in low risk patients with coronary artery disease. *J Am Coll Cardiol* 1993;21:700-708
172. Dilsizian V, Bonow RO. Current diagnostic techniques of assessing myocardial viability in hibernating and stunned myocardium. *Circulation* 1993;87:1-20
173. Hendel RC, Bonow RO. Disparity in coronary perfusion and regional wall motion: effect on clinical assessment of viability. *Coronary Artery Disease* 1993;4:512-520
174. Schelbert HR, Bonow RO, Geltman E, Maddahi J, Schwaiger M. Clinical use of positron emission tomography. Position paper of the Cardiovascular Council of the Society of Nuclear Medicine. *J Nucl Med* 1993;34:1385-1388
175. Bonow RO. Detecting viability in underperfused, akinetic myocardium. *Am J Cardiol CME series* 1993;4:17-24
176. Perrone-Filardi P, Bacharach SL, Dilsizian V, Panza JA, Maurea S, Bonow RO. Regional systolic function, myocardial blood flow, and glucose uptake at rest in hypertrophic cardiomyopathy. *Am J Cardiol* 1993;72:199-204
177. Quyyumi AA, Diodati JG, Lakatos E, Bonow RO, Epstein SE. Angiogenic effects of low molecular weight heparin in patients with stable coronary artery disease. *J Am Coll Cardiol* 1993;22:635-641
178. Dilsizian V, Bonow RO, Epstein SE, Fananapazir L. Myocardial ischemia is a frequent cause of cardiac arrest and syncope in young patients with hypertrophic cardiomyopathy. *J Am Coll Cardiol* 1993;22:796-804
179. Dilsizian V, Perrone-Filardi P, Arrighi JA, Bacharach SL, Quyyumi AA, Freedman, NMT, Bonow RO. Concordance and discordance between stress-redistribution-reinjection and rest-redistribution thallium imaging for assessing viable myocardium. *Circulation* 1993;88:941-952
180. Marin-Neto JA, Dilsizian V, Arrighi JA, Freedman NMT, Perrone-Filardi P, Bacharach SL, Bonow RO. Thallium reinjection demonstrates viable myocardium in regions with reverse redistribution. *Circulation* 1993;88:1736-1745
181. Bonow RO. Radionuclide angiography for risk stratification of patients with coronary artery disease. *Am J Cardiol* 1993;72:735-739
182. Udelson JE, Bonow RO. Diastolic dysfunction as a cause of heart failure. *Hosp Pract* 1993;28:49-56
183. Dilsizian V, Arrighi JA, Diodati JG, Quyyumi AA, Bacharach SL, Marin-Neto JA, Uddin S, Bonow RO. Myocardial viability in patients with chronic ischemic left ventricular dysfunction: comparison of ^{99m}Tc -sestamibi, ^{201}Tl thallium, and ^{18}F -fluorodeoxyglucose. *Circulation* 1994;89:578-587
184. Perrone-Filardi P, Bacharach SL, Marin-Neto JA, Dilsizian V, Maurea S, Arrighi JA, Bonow RO: Clinical significance of reduced regional myocardial glucose uptake in regions with normal blood flow in patients with chronic coronary artery disease. *J Am Coll Cardiol* 1994;23:608-616
185. Scheffknecht BHB, Bonow RO, Dwyer AJ, Maron BJ. Functional assessment of left ventricular ejection dynamics by cine-magnetic resonance imaging in hypertrophic cardiomyopathy. *Am J Cardiol* 1994;73:981-984
186. Arrighi JA, Dilsizian V, Perrone-Filardi P, Diodati JG, Bacharach SL, Bonow RO. Improvement of the age-related impairment in left ventricular diastolic filling with verapamil in the normal human heart. *Circulation* 1994; 90:213-219
187. Mazzotta G, Pace L, Bonow RO. Risk stratification of patients with coronary artery disease and left ventricular dysfunction by exercise radionuclide angiography and exercise electrocardiography. *J Nucl Cardiol* 1994;1:529-536
188. Bonow RO. Asymptomatic aortic regurgitation: indications for operation. *J Card Surg* 1994;9(suppl):170-173
189. Bonow RO. Prognostic assessment in coronary artery disease: role of radionuclide angiography. *J Nucl Cardiol* 1994;1:280-291
190. Bonow RO. Management of chronic aortic regurgitation. *N Engl J Med* 1994;331:736-737
191. Bonow RO, Gheorghide M. Heart failure: evaluation and care of patients with left ventricular dysfunction. *Abstracts of Clinical Care Guidelines* 1994;6:6-7
192. Choi BW, Bacharach SL, Barbour DJ, Leon MB, McCarthy KE, Bonow RO. Left ventricular systolic dysfunction, diastolic filling characteristics and exercise cardiac reserve in mitral stenosis. *Am J Cardiol* 1995;75:526-529
193. Ritchie JL, Bateman TM, Bonow RO, Crawford MH, Gibbons RJ, Hall RJ, O'Rourke RA, Parisi AF, Verani MS. Guidelines for clinical use of cardiac radionuclide imaging. Report of the American Heart Association/ American College of Cardiology Task Force on Assessment of Diagnostic and Therapeutic Cardiovascular Procedures (Committee on Radionuclide Imaging). *Circulation* 1995;91:1278-1303 and *J Am Coll Cardiol* 1995;25:521-547
194. Vitale DF, Bonow RO, Gerundo G, Pelaggi N, Lauria G, Leosco D, Coltori F, Bordini C, Rengo C, Rengo F. Ultrasonic backscatter alterations induced by exercise-induced myocardial ischemia in man. *Circulation* 1995;92:1452-1457
195. Bonow RO. The hibernating myocardium: Implications for the management of congestive heart failure. *Am J Cardiol* 1995;75:17A-25A
196. Bonow RO. The hibernating myocardium: Identification of viable myocardium in patients with coronary artery disease and chronic left ventricular dysfunction. *Basic Res Cardiol* 1995;90:49-51
197. Bonow RO, Nikas D, Elefteriades JA. Valve replacement for regurgitant lesions of the aortic or mitral valve and advanced left ventricular dysfunction. *Cardiol Clinics* 1995; 13:73-83
198. Bonow RO. Functional evaluation of patients with coronary artery disease: selection of appropriate pharmacologic agents and imaging modalities. *Eur Heart J* 1995;16(suppl M):11-16
199. Bonow RO. Thallium reverse redistribution after coronary artery bypass grafting. *Ann Thorac Surg* 1995; 59:1532-1533

200. Hendel RC, Chaudhry FA, Bonow RO. Myocardial viability. *Curr Prob Cardiol* 1996;21:145-224
201. Bonow RO. New insights into the cardiac natriuretic peptides. *Circulation* 1996;93:1946-1950
202. Vitale DF, Bonow RO, Calabro R, De Cristofaro M, Pacileo G, Caso P, Gerundo C, Losi MA, Rengo C. Ultrasonic tissue characterization in pediatric and adult patients with hypertrophic cardiomyopathy. *Circulation* 1996;94:2826-2830
203. Bonow RO. How can stunning be detected clinically? *Dialogues in Cardiovascular Medicine* 1996;1:32-34
204. Ruzumna P, Gheorghiade M, Bonow RO. Mechanisms and management of heart failure due to diastolic dysfunction. *Curr Opin Cardiol* 1996;11:269-275
205. Bonow RO, Bohannon N, Hazzard W. Risk stratification/special populations. *Am J Med* 1996;101:(suppl 4A):17S-24S
206. Bonow RO. Identification of viable myocardium. *Circulation* 1996;94:2674-2680
207. Bonow RO. The search for viable myocardium. *West J Med* 1996;165:393-396
208. Kong TQ, Davidson CJ, Meyers SN, Tauke JT, Parker MA, Bonow RO. Prognostic significance of creatine kinase elevation following elective coronary artery interventions. *JAMA* 1997;277:461-466
209. Bonow RO. Need more research on heart disease. *Chicago Tribune* Feb 19, 1997;1:14
210. Bonow RO. Diagnosis and risk stratification in coronary artery disease: nuclear cardiology versus stress echocardiography. *J Nucl Cardiol* 1997;4:S172-S178
211. Selker HP, Zalenski RJ, Antman EM, Aufderheide TP, Bernard SA, Bonow RO, Gibler WB, Hagen MD, Lau J, Johnson P, Lau J, McNutt RA, Ornato J, Schwartz JS, Scott JD, Tunick PA, Weaver WD. An evaluation of technologies for identifying acute cardiac ischemia in the emergency department: executive summary of a National Heart Attack Alert Program working group report. *Ann Emerg Med* 1997;29:1-12
212. Selker HP, Zalenski RJ, Antman EM, Aufderheide TP, Bernard SA, Bonow RO, Gibler WB, Hagen MD, Lau J, Johnson P, Lau J, McNutt RA, Ornato J, Schwartz JS, Scott JD, Tunick PA, Weaver WD. An evaluation of technologies for identifying acute cardiac ischemia in the emergency department: a report from a National Heart Attack Alert Program working group. *Ann Emerg Med* 1997;29:13-87
213. Bonow RO. Predicting recovery of left ventricular function after myocardial revascularization. *Quart J Nucl Med* 1997;41:117-127
214. Gheorghiade M, Benatar D, Konstam MA, Stoukides CA, Bonow RO. Pharmacotherapy for systolic dysfunction: a review of mortality trials. *Am J Cardiol* 1997;80:14H-27H
215. Bonow RO. Gated myocardial perfusion imaging for measuring left ventricular function. *J Am Coll Cardiol* 1997;30:1649-1650
216. Cusick DA, Bonow RO, Chaudhry FA. Safety of dobutamine stress echocardiography in patients with left ventricular apical thrombus. *Am J Cardiol* 1997;80:1252-1255
217. Bonow RO. How can hibernating myocardium be detected clinically? *Dialogues in Cardiovascular Medicine* 1997;2:84-88
218. Gheorghiade M, Bonow RO. Chronic heart failure in the United States: a manifestation of coronary artery disease. *Circulation* 1998;97:282-289
219. Bonow RO, Mensah GA, Bettman MA, Gibbons GH, Grant AO, Jalife J, Robertson RM for the Committee on Scientific Sessions Program (CSSP), American Heart Association. The working group report on science-based categories for abstracts submitted to the Annual Scientific Sessions. *Circulation* 1998;97:1525-1528
220. Baig MK, Mahon N, McKenna WJ, Caforio ALP, Bonow RO, Francis G, Gheorghiade M. The pathophysiology of advanced heart failure. *Am Heart J* 1998;35:S216-S230
221. Gheorghiade M, Cody RJ, Francis GS, McKenna WJ, Young JB, Bonow RO. Current medical therapy for advanced heart failure. *Am Heart J* 1998;35:S231-S248
222. Kloner RA, Bolli R, Marban E, Reinlib L, Braunwald E, and Participants. Medical and cellular implications of stunning, hibernation, and preconditioning: an NHLBI Workshop. *Circulation* 1998;97:1848-1867
223. Bonow RO. Chronic aortic regurgitation: role of medical therapy and optimal timing for surgery. *Cardiol Clinics* 1998;16:449-462
224. Bonow RO, Roberts WC. Robert Ogden Bonow, MD: a conversation with the editor. *Am J Cardiol* 1998;81:1474-1488
225. Bonow RO, Carabello B, de Leon AC, Edmunds LH Jr, Fedderly BJ, Freed MD, Gaasch WH, McKay CR, Nishimura RA, O'Gara PT, O'Rourke RA, Rahimtoola SH. ACC/AHA Guidelines for the Management of Patients with Valvular Heart Disease. A Report of the American College of Cardiology/American Heart Association Task Force on Practice Guidelines (Committee on Management of Patients with Valvular Heart Disease). *J Am Coll Cardiol* 1998;32:1486-1582
226. Bonow RO, Carabello B, de Leon AC, Edmunds LH Jr, Fedderly BJ, Freed MD, Gaasch WH, McKay CR, Nishimura RA, O'Gara PT, O'Rourke RA, Rahimtoola SH. ACC/AHA Guidelines for the Management of Patients with Valvular Heart Disease. Executive Summary. *Circulation* 1998;98:1949-1984
227. Marin-Neto JA, Dilsizian V, Perrone-Filardi P, Bacharach SL, Maurea S, Arrighi JA, Bonow RO. Detection of viable myocardium by thallium scintigraphy compared to positron emission tomography in patients with moderate versus severe ischemic left ventricular dysfunction. *Am J Cardiol* 1998;82:1001-1007
228. Gheorghiade M, Bonow RO. Heart failure as a manifestation of coronary artery disease: overview. *Coronary Artery Disease* 1998;9:623-624
229. Challapalli S, Hendel RC, Bonow RO. Clinical profile of patients with congestive heart failure due to coronary artery disease: stunned/hibernating myocardium, ischemia, scar. *Coronary Artery Disease* 1998;9:629-644
230. Challapalli S, Gheorghiade M, Bonow RO. Medical management of patients with heart failure secondary to coronary artery disease. *Coronary Artery Disease* 1998;9:659-674
231. Bonow RO. Thallium perfusion defects and impaired

- exercise capacity predict death and non-fatal myocardial infarction in symptom-free patients with previous CABG. *Evid Based CV Med* 1998;2:73
232. Ramani K, Judd RM, Holly TA, Parrish TB, Rigolin VH, Parker MA, Callahan C, Fitzgerald SW, Bonow RO, Klocke FJ. Contrast magnetic resonance imaging in the assessment of myocardial viability in patients with stable coronary artery disease and left ventricular dysfunction. *Circulation* 1998;98:2687-2694
233. Udelson JE, Bonow RO, Allman KC, Dilsizian V, DiCarli MF, Lahiri A, Perrone-Filardi P, Sandler M, Tamaki N, Vanoverschelde JL. Assessing myocardial viability in left ventricular dysfunction and heart failure: a report from the Wintergreen Panel. *J Nucl Cardiol* 1999;6:137-148
234. Bonow RO. Contractile reserve and coronary blood flow reserve in collateral-dependent myocardium. *J Am Coll Cardiol* 1999;33:705-707
235. Freher M, Challapalli S, Pinto JV, Schwartz J, Bonow RO, Gheorghiade M. The current status of calcium channel blocking drugs in patients with cardiovascular disease. *Curr Prob Cardiol* 1999;24:233-340
236. Bonow RO. Valvular heart disease. 50th Anniversary Historical Article. *J Am Coll Cardiol* 1999;34:315-317
237. Chaudhry FA, Tauke JT, Alessandrini RS, Vardi G, Parker MA, Bonow RO. Prognostic implications of myocardial contractile reserve in patients with coronary artery disease and severe left ventricular dysfunction. *J Am Coll Cardiol* 1999;34:730-738
238. Kancherla MK, Salti H, Mulderink TA, Parker M, Bonow RO, Mehman DJ. Prevalence of aortic and/or mitral regurgitation in patients exposed to fenfluramine-phenteramine or to dexfenfluramine. *Am J Cardiol* 1999;84:1335-1338
239. Baig MK, Mahon N, McKenna WJ, Caforio ALP, Bonow RO, Francis G, Gheorghiade M. The pathophysiology of advanced heart failure. *Heart Lung* 1999;28:87-101
240. Smith SC Jr, Amsterdam E, Balady GJ, Bonow RO, Fletcher GF, Froelicher V, Heath G, Limacher MC, Maddahi J, Pryor D, Redberg RF, Roccella E, Ryan T, Smaha L, Wenger NK. Prevention Conference V. Beyond Secondary Prevention: Identifying the High-Risk Patient for Primary Prevention: Tests for Silent and Inducible Ischemia: Writing Group II. *Circulation* 2000;101:e12-e16
241. Smith SC, Greenland P, Grundy SM, et al. Prevention Conference V. Beyond Secondary Prevention: Identifying the High-Risk Patient for Primary Prevention. Executive Summary. *Circulation* 2000;101:111-116
242. Hendel RC, Henry TD, McCluskey ER, Bonow RO. Effect of intracoronary recombinant human vascular endothelial growth factor (rhVEGF) on myocardial perfusion: evidence for a dose-dependent effect. *Circulation* 2000;101:118-121
243. Bonow RO. Aortic regurgitation. *Curr Treatment Options Cardiovasc Dis* 2000;2:125-132
244. Chaudhry FA, Tauke JT, Alessandrini RS, Greenfield SA, Tommaso CL, Bonow RO. Enhanced detection of ischemic myocardium by transesophageal dobutamine stress echocardiography: comparison with simultaneous transthoracic echocardiography. *Echocardiography* 2000;17:241-253
245. Gheorghiade M, Cody RJ, Francis GS, McKenna WJ, Young JB, Bonow RO. Current medical therapy for advanced heart failure. *Heart Lung* 2000;29:16-32
246. Kornowski R, Baim DS, Moses JW, Hong MK, Laham RJ, Fuchs S, Hendel RC, Bonow RO, Kuntz RE, Leon MB. Acute and long-term clinical outcomes from direct myocardial laser revascularization guided by Biosense left ventricular electro-mechanical mapping. *Circulation* 2000;102:1120-1123
247. Simons M, Bonow RO, Cohen DJ, Chronos N, Gibson CM, Giordano F, Hammond K, Kuntz R, Laham M, Li W, Losordo D, McCluskey T, Pike RJ, Popma JJ, Selke F, Stegman T, Rosengart T. Clinical trials in coronary angiogenesis: issues, problems, consensus. Expert panel summary. *Circulation* 2000;102:e73-e86
248. Kim RJ, Wu E, Rafael A, Parker MA, Chen EL, Simonetti O, Klocke FJ, Bonow RO, Judd RM. The use of contrast-enhanced magnetic resonance imaging to identify reversible myocardial dysfunction. *N Engl J Med* 2000;343:1445-1453
249. Cusick DA, Bonow RO, Chaudhry FA. Left ventricular apical thrombus and myocardial viability: a dobutamine stress echocardiographic study. *Echocardiography* 2000;17:547-554
250. Bonow RO. Detection of early coronary artery disease in asymptomatic high risk groups: is nuclear cardiology sensitive and specific enough? *Quart J Nucl Med* 2000;44:6-8
251. Wu E, Judd RM, Vargas J, Klocke FJ, Bonow RO, Kim RJ. Visualization of the presence, location and transmural extent of healed Q-wave and Non-Q-wave myocardial infarction. *The Lancet* 2001;357:21-28
252. Bonow RO. Asymptomatic aortic regurgitation and mitral regurgitation. *ACC Curr Journal Rev* 2001;10:36-40
253. Fuchs S, Hendel RC, Baim DS, Moses JW, Oierre A, Laham RJ, Hung MK, Kuntz RE, Oietrusewicz M, Bonow RO, Leon MB, Kornowski R. Endocardial electro-mechanical mapping to assess myocardial viability and severity of ischemia: a comparative analysis with radionuclide perfusion imaging. *Am J Cardiol* 2001;87:-874-880
254. Gheorghiade M, Bonow RO. Use of beta-blocker therapy for mild-to-moderate chronic heart failure. *Am J Med* 2001;110 (suppl 7A):1S-7S
255. Bonow RO, Camici PG, DiCarli MF, Dilsizian V, Underwood SR, Vanoverschelde JLJ, Wijns W. Imaging in heart failure. *J Nucl Cardiol* 2001;8:296-305
256. Acanfora D, Gheorghiade M, Trojano L, Furgi G, Pasini E, Picone C, Papa A, Iannuzzi GL, Bonow RO, Rengo F. Relative lymphocyte count: a prognostic indicator of mortality in elderly patients with congestive heart failure. *Am Heart J* 2001;142:167-173
257. Ricciardi MJ, Wu E, Davidson CJ, Choi KM, Klocke FJ, Bonow RO, Judd RM, Kim RJ. Visualization of discrete microinfarction following percutaneous coronary intervention associated with mild creatine kinase-MB elevation. *Circulation* 2001;103:2780-2783
258. Elliott MD, Kapoor A, Parker MA, Kaufman DB, Bonow RO, Gheorghiade M. Improvement in hypertension and decreased need for antihypertensive therapy after kidney/pancreas transplantation. *Circulation* 2001;104:563-569

259. Smith SC, Blair S, Bonow RO, Brass L, Cerqueira M, Dracup K, Fuster V, Gotto A, Grundy FS, Houston-Miller N, Jacobs A, Jones D, Krauss R, Mosca L, Ockene I, Pasternack R, Pearson T, Pfeffer M, Starke R, Taubert K. AHA/ACC Guidelines for secondary prevention in patients with coronary and other vascular disease: 2001 update. *Circulation* 2001;104:1577-1579
260. Beohar N, Davidson CJ, Weigold G, Goodreau L, Benzuly KH, Bonow RO. Predictors of long-term outcomes following direct percutaneous coronary intervention for acute myocardial infarction. *Am J Cardiol* 2001;88:1103-1107
261. Henry TD, Rocha-Singh K, Isner JM, Kereiakes DJ, Giordano FJ, Simons M, Losordo DW, Hendel RC, Bonow RO, McCluskey ER. Intracoronary administration of recombinant human vascular endothelial growth factor to patients with coronary artery disease. *Am Heart J* 2001;142:872-880
262. Davidson CJ, Gheorghiade M, Flaherty JD, Elliott MD, Reddy SP, Wang NC, Sundarem SA, Flamm SL, Blei AT, Abecassis MI, Bonow RO. Predictive value of stress myocardial perfusion imaging in liver transplant patients. *Am J Cardiol* 2002;89:359-360
263. Choudhury L, Gheorghiade M, Bonow RO. Coronary artery disease in patients with heart failure and preserved systolic function: a need for systematic evaluation. *Am J Cardiol* 2002;89:719-722
264. Bonow RO. Myocardial viability and prognosis in patients with ischemic left ventricular dysfunction. *J Am Coll Cardiol* 2002;39:1159-1162
265. Beller GA, Bonow RO, Fuster V. Revised guidelines for training in adult cardiovascular medicine: Core Cardiology Training II (COCATS 2). *J Am Coll Cardiol* 2002;39:1242-1246
266. Grundy SM, Howard B, Smith SC, Eckel R, Redberg R, Bonow RO. Prevention VI: Diabetes and cardiovascular disease. executive summary. *Circulation* 2002;105:2231-2239
267. Bonow RO, Mitch WE, Nesto RW, O'Gara PT, Becker RC, Clark LT, Hunt S, Jialal I, Lipshultz SE, Loh E. Prevention VI. Diabetes and cardiovascular disease: management of cardiovascular-renal complications. *Circulation* 2002;105:e159-e164
268. Rajamannan NM, Subramanian M, Sebo T, Stone NJ, Bonow RO, Spelsberg TC. Atorvastatin inhibits hypercholesterolemia-induced cellular proliferation and bone matrix production in the rabbit aortic valve. *Circulation* 2002;105:2660-2665
269. Bonow RO. Myocardial hibernation. *Ital J Cardiol* 2002;3:285-290
270. Bonow RO, Smaha LA, Smith SC, Jr, Mensah GA, Lenfant C. The international burden of cardiovascular disease: responding to the emerging global epidemic. *Circulation* 2002;106:1602-1605
271. Mahrholdt H, Wagner A, Holly TA, Elliott MD, Bonow RO, Kim RJ, Judd RM. Reproducibility of infarct size measurement by contrast enhanced MRI. *Circulation* 2002;106:2232-2237
272. Roberts R, Bonow RO, Loscalzo J, Mosca L. Report of the American Heart Association Task Force on Strategic Research Direction. Executive summary. *Circulation* 2002;106:2630-2633
273. Bonow RO, Clark EB, Curfman GD, Guttmacher A, Hill MN, Miller DC, Morrison AR, Myerburg RJ, Schneider MD, Weisfeldt ML, Willerson JT, Young JB. Task Force on Strategic Research Direction: Clinical Science Subgroup. Key science topics report. *Circulation* 2002;106:e162-e166
274. Choudhury L, Mahrholdt H, Wagner A, Choi KM, Elliott M, Klocke FJ, Bonow RO, Judd RM, Kim RJ. Myocardial scarring in minimally symptomatic patients with hypertrophic cardiomyopathy. *J Am Coll Cardiol* 2002;40:2156-2164
275. Elliott MD, Kapoor A, Parker MA, Kaufman DB, Bonow RO, Gheorghiade M. Reduced hypertension in diabetics after kidney and pancreas transplantation. *Cardiol Rev* 2002;19:27-31
276. Bonow RO. Primary prevention of cardiovascular disease: a call to action. *Circulation* 2002;106:3140-3141
277. Mori F, Bonow RO, Castelli G, Gheorghiade M, Stefano PL, Zuppiroli A. Attuali orientamenti nel trattamento delle valvulopatie. *Il Cardiologo* 2002;2 (Suppl 1):1-11.
278. Bonow RO. The challenge of balancing scientific discovery and translation. *Circulation* 2003;107:358-362
279. Robbins JD, Maniar PB, Cotts W, Parker MA, Bonow RO, Gheorghiade M. Prevalence and severity of mitral regurgitation in chronic systolic heart failure. *Am J Cardiol* 2003;91:360-362
280. Wagner A, Mahrholdt H, Holly TA, Elliott MD, Regenfus M, Parker M, Klocke FJ, Bonow RO, Kim RJ, Judd RM. Contrast-enhanced MRI and routine single photon emission computed tomography (SPECT) perfusion imaging for detection of subendocardial myocardial infarcts: an imaging study. *The Lancet* 2003;361:374-379
281. Mieres JH, Shaw LJ, Hendel RC, Miller DD, Bonow RO, Berman DS, Heller GV. A report of the American Society of Nuclear Cardiology Task Force on Women and Heart Disease: Role of myocardial perfusion imaging in the clinical evaluation of coronary artery disease in women. *J Nucl Cardiol* 2003;10:95-101
282. Balady GJ, O'Gara PT, Bonow RO. AHA Council on Clinical Cardiology: bringing the best science to the bedside for more than 50 years. *Circulation* 2003;107:1717-1718
283. Ricciardi MJ, Davidson CJ, Gubernikof G, Beohar N, Eckman LJ, Parker MA, Bonow RO. Troponin I elevation and cardiac events after percutaneous coronary intervention. *Am Heart J* 2003;145:522-528
284. Rajamannan NM, Subramanian M, Rickard D, Stock SR, Donovan J, Springett M, Orszulak T, Fullerton DA, Tajik AJ, Bonow RO, Spelsberg TC. Human aortic valve calcification is associated with an osteoblast phenotype. *Circulation* 2003;107:2181-2184
285. Frigerio M, Oliva F, Turazza FM, Bonow RO. Prevention and management of chronic heart failure: the asymptomatic patient. *Am J Cardiol* 2003;91(9A):4-9
286. Rajamannan NM, Gersh B, Bonow RO. Calcific aortic stenosis: from bench to bedside. *Heart* 2003;89:1-5
287. François CJ, Shors S, Bonow RO, Finn JP. Analysis of cardiopulmonary transit times at contrast material-enhanced MR imaging in patients with heart disease. *Radiology* 2003;227:447-452

288. Bonow RO, Eckel RH. Diet, obesity and cardiovascular risk. *N Engl J Med* 2003;348:2057-2058
289. Bonow RO. La difficile sfida del saper bialciare la ricerca scientifica con la sua diffusione. *Cardiologia negli Ospedali* 2003;113:12-20
290. Mahrholdt H, Wagner A, Parker M, Regenfus M, Fieno DS, Bonow RO, Kim RJ, Judd RM. Relationship of contractile function to transmural extent of infarction in patients with chronic coronary artery disease. *J Am Coll Cardiol* 2003;42:505-512
291. Bello D, Farah GM, Di Luzio S, Shah D, Parker M, Johnson MR, Cotts WG, Klocke FJ, Bonow RO, Judd RM, Gheorghide M, Kim RJ. Gadolinium cardiovascular magnetic resonance predicts reversible myocardial dysfunction and remodeling in heart failure patients undergoing beta-blocker therapy. *Circulation* 2003;108:1945-1953
292. Balcazar H, Bonow RO, Bradford WD, Buch J, Cefalu WT, Farquhar JW, Flack JM, Geersten R, Johnson PA, Houston Miller N, Libby P, Niaura RS, Pouleur H, Smith S Jr, Sorlie P, Spann SJ. Heart disease: an all-out attack on risk. *Pfizer Journal* 2003;7:4-49
293. Borer JS, Bonow RO. Contemporary approach to aortic and mitral regurgitation. *Circulation* 2003;108:2432-2438
294. Nesto RW, Bell D, Bonow RO, Fonseca V, Grundy SM, Horton ES, Le Winter M, Porte D, MD, Semenkovich CF, Smith SC Jr, Young L, Kahn R. Thiazolidinedione use, fluid retention, and congestive heart failure. A consensus statement from the American Heart Association and the American Diabetes Association. *Circulation* 2003;108:2941-2948 and *Diabetes Care* 2004;27:256-63
295. Beohar N, Flaherty JD, Davidson CJ, Maynard RC, Robbins JD, Shah A, Choi JW, MacDonald LA, Jorgensen JP, Pinto JV, Klaus HM, Wang N, Harris KR, Decker R, Bonow RO. The antirestenotic effects of a locally delivered caspase inhibitor attenuating apoptosis in a balloon injury model. *Circulation* 2004;109:108-113
296. Bairey Merz N, Bonow RO, Sopko G, Balaban RS, Cannon RO, III, Gordon D, Hand MM, Hayes SN, Lewis JF, Long T, Manolio TA, MD, Maseri A, Nabel EG, Desvigne Nickens P, Pepine CJ, Redberg RF, Rossouw JE, Selker HP, Shaw LJ, Waters, DD. Women's Ischemic Syndrome Evaluation: Current status and future research directions. Report of the National Heart, Lung, and Blood Institute Workshop October 2-4, 2003: executive summary. *Circulation* 2004;109:805-807
297. Pepine CJ, Balaban RS, Bonow RO, Diamond GA, Johnson BD, Johnson PA, Mosca L, Nissen SE, Pohost GM. Women's Ischemic Syndrome Evaluation: current status and future research directions. Report of the National Heart, Lung, and Blood Institute Workshop October 2-4, 2003: Section 1. Diagnosis of stable ischemia and ischemic heart disease. *Circulation* 2004;109:e44-46
298. Bonow RO, Smith SC Jr. Cardiovascular manpower: the looming crisis. *Circulation* 2004;109:817-820
299. Mehra MR, Gheorghide M, Bonow RO. Mitral regurgitation in chronic heart failure: more questions than answers? *Curr Cardiol Rep* 2004;6:96-99
300. Crowley W Jr, Sherwood L, Salber P, Scheinberg D, Slavkin H, Tilson H, Reece EA, Catanese V, Johnson SB, Dobs A, Genel M, Korn A, Reame N, Bonow RO, Grebb J, Rimoin D. Clinical research in the United States at a crossroads: proposal for a novel public-private partnership to establish the National Clinical Research Enterprise. *JAMA* 2004;291:1120-1126
301. Bonow RO, Gheorghide M. The diabetes epidemic: a national and global crisis. *Am J Med* 2004;116(5A):2S-10S
302. Piccini JP, Klein L, Gheorghide M, Bonow RO. New insights into diastolic heart failure: role of diabetes. *Am J Med* 2004;116(5A):64S-75S
303. Gheorghide M, Klein L, Stone NJ, Bonow RO, Kim RJ. Improvement in the function of hibernating myocardium in a patient with heart failure due to coronary artery disease receiving high-dose simvastatin. *Ital J Cardiol* 2004;5:160-162
304. Seghatol FF, Shah DJ, DiLuzio S, Bello D, Johnson MR, Cotts WG, O'Donohue JA, Bonow RO, Gheorghide M, Rigolin VH. Relation between contractile reserve and improvement in left ventricular function with beta blocker therapy in patients with heart failure secondary to ischemic or idiopathic dilated cardiomyopathy. *Am J Cardiol* 2004;93:854-859
305. Bonow RO. Prevention of cardiovascular disease: challenges and opportunities. *Ital J Cardiol* 2004;5:6S-8S
306. Olin JW, Kaufman JA, Bluemke DA, Bonow RO, Gerhard MD, Jaff MR, Lederman RJ, Rubin GD. American Heart Association Conference on Atherosclerotic Vascular Disease. Writing Group IV: Imaging. *Circulation* 2004;109:2626-2633
307. Faxon DF, Schwamm LH, Pasternak RC, Peterson ED, McNeil BJ, Bufalino V, MD; Yancy CW, Brass LM, Baker DW, Bonow RO, Smaha LA, Jones D, Smith SC Jr, Ellrodt G, Allen J, Schwartz S, Fonarow G, Duncan P, Horton K, Smith R, Stranne S, Shine K. Improving quality of care through disease management: principles and recommendations from the American Heart Association's Expert Panel on Disease Management. *Circulation* 2004;109:2651-2654 and *Stroke* 2004;35:1527-30
308. Udelson JE, Bonow RO, Dilsizian V. The historical and conceptual evolution of radionuclide assessment of myocardial viability. *J Nucl Cardiol* 2004;11:318-334
309. Franklin BA, Kahn JK, Gordon NF, Bonow RO. A cardioprotective "polypill"? Independent and additive benefits of lifestyle modification. *Am J Cardiol* 2004;94:162-166
310. Eimer MJ, Ekery D, Rigolin VH, Bonow RO, Carnethon MR, Cotts W. Elevated B-type natriuretic peptide (BNP) in asymptomatic men with chronic aortic regurgitation and preserved left ventricular systolic function *Am J Cardiol* 2004;94:676-678
311. Bonow RO. Update in Cardiology. *Ann Intern Med* 2004;141:628-634
312. Bonow RO, Zipes DP (co-chairs), Anderson JL, Cheitlin MD, Goldstein LB, Grant AO, Faxon D, Lima JAC, Roberson RM. ACCF/AHA Consensus Conference Report on Professionalism and Ethics. Task Force 5: Expert testimony and opinions. *Circulation* 2004;2535-2537 and *J Am Coll Cardiol* 2004;44:1747-1749
313. Nahlawi M, Waligora M, Spies SM, Bonow RO, Kadish AH, Goldberger JJ. Left ventricular function during and after right ventricular pacing. *J Am Coll Cardiol* 2004;44:1883-1888

314. Loscalzo J, Bonow RO, Jacobs AK. Coronary calcium screening and the American Heart Association news embargo. *Circulation* 2004;110:3504-3505
315. Bonow RO, Roberts WC. Robert Ogden Bonow, MD: a conversation with the editor on valvular heart disease and indications for operative intervention. *Baylor Univ Med Ctr Proc* 2005;18:56-64
316. Kupersmith J, Sung N, Yates J, Genel M, Slavkin H, Bonow RO, Sherwood L, Catanese V, Reame N, Tilson H, Reece EA. Creating a new structure for research on healthcare effectiveness. *J Invest Med* 2005;53:67-72
317. Makkena B, Salti H, Thennapan S, Khan R, Bonow RH, Gupta S, Gocek J, Caira F, Bonow RO, Rajamannan NM. Atorvastatin improves cellular proliferation and bone matrix expression in the hypercholesterolemic mitral valve. *J Am Coll Cardiol* 2005;41:631-633
318. Bonow RO, Cheitlin MD, Crawford MH, Douglas, PS. Task Force 3. Valvular Heart Disease. Bethesda Conference 36: Recommendations for determining eligibility for competition in athletes with cardiovascular disease. *J Am Coll Cardiol* 2005;45:1334-1340
319. Bonow RO, Grant AO, Jacobs AK. The cardiovascular state of the union: confronting healthcare disparities. *Circulation* 2005;111:1205-1207
320. Yancy CW, Benjamin EJ, Bonow RO. Discovering the full spectrum of cardiovascular disease: the Minority Health Summit 2003. Executive summary. *Circulation* 2005;111:1339-1349
321. Bonow RO. Molecular beacons illuminate subcellular events. *Circulation* 2005;111:1730-1732
322. Rajamannan NM, Subramaniam M, Stock SR, Stone NJ, Springett M, Ignatiev KI, McConnell J, Singh R, Bonow RO, Spelsberg TC. Atorvastatin inhibits aortic valve calcification and enhances nitric oxide synthase production in the hypercholesterolemic aortic valve. *Heart* 2005;91:806-810
323. Rajamannan NM, Nealis TB, Subramaniam M, Pandya S, Stock SR, Ignatiev C, Sebo TJ, Rosengart TK, Orszulak TC, Edwards WD, McCarthy PM, Bonow RO, Spelsberg T. Calcified rheumatic valve angiogenesis is associated with vascular endothelial growth factor expression and osteoblast-like bone formation. *Circulation* 2005;111:3296-3301
324. Bax JJ, Bonow RO, Tschoepe D, Inzucchi SE, Barrett EJ. Early detection of coronary heart disease in diabetic patients without symptoms of coronary artery disease: implications for expanded use of myocardial perfusion imaging. *Br J Diabetes Vasc Dis* 2005;5:283-288
325. Bonow RO, Bennett S, Ganiats TG, Hlatky MA, Konstam MA, Lambrew CT, Normand ST, Pina IL, Radford MJ, Smith AL, Stevenson LW. ACC/AHA clinical performance measures for adults with chronic heart failure. A report of the American College of Cardiology/American Heart Association Task Force on Performance Measures. *J Am Coll Cardiol* 2005;46:1144-1178 and *Circulation* 2005;112:1853-1887
326. Leon MB, Kornowski R, Downey WE, Weisz G, Baim, DS, Bonow RO, Hendel RC, Cohen DJ, Gervino E, Laham R, Lembo NJ, Moses JW, Kuntz RE. A blinded randomized placebo-controlled trial of percutaneous laser myocardial revascularization to improve angina symptoms in patients with severe coronary disease. *J Am Coll Cardiol* 2005;46:1812-1819
327. Bonow RO. Bridging funding for young investigators. *J Am Coll Cardiol* 2005;46:15A-18A
328. Gheorghiade M, De Luca M, Bonow RO. Neurohormonal inhibition in heart failure: insights from recent clinical trials. *Am J Cardiol* 2005;96:(12A) 3L-9L
329. Bucciarelli-Ducci C, Wu E, Lee DC, Holly TA, Klocke FJ, Bonow RO. Contrast-enhanced cardiac magnetic resonance in the evaluation of myocardial infarction and myocardial viability in patients with ischemic heart disease. *Curr Probl Cardiol* 2006;31:125-168
330. Beller GA, Bonow RO, Fuster V. ACCF 2006 update for training in adult cardiovascular medicine: focused update of the 2002 COCATS 2 training statement. *J Am Coll Cardiol* 2006;47:894-897
331. Caira FC, Stock SR, Gleason T, McGee EC, Bonow RO, Spelsberg TC, McCarthy PC, Rahimtoola SH, MB, Rajamannan NM. Human degenerative valve disease is associated with upregulation of Lrp5 receptor mediated bone formation. *J Am Coll Cardiol* 2006;47:1707-1712
332. Smith SC, Allen J, Blair SN, Bonow RO, Brass LM, Grundy SM, Hiratzka L, Jones D, Krumholz HA, Mosca L, Pasternak RC, Pearson T, Pfeffer MA, Taubert KA. AHA/ACC guidelines for secondary prevention for patients with coronary and other vascular disease: 2006 update. *Circulation* 2006;113:2363-2372 and *J Am Coll Cardiol* 2006;47:2130-2139
333. Bonow RO, Carabello B, Chatterjee K, De Leon AC, Jr, Faxon DP, Freed MD, Gaasch WH, Lytle BW, Nishimura RA, O'Gara PT, O'Rourke RA, Otto CM, Shah PM, Shanewise J. ACC/AHA 2006 Guidelines for the Management of Patients with Valvular Heart Disease. *J Am Coll Cardiol* 2006;48:e1-e148 and *Circulation* 2006;114:e84-e231
334. Bonow RO, Carabello B, Chatterjee K, De Leon AC, Jr, Faxon DP, Freed MD, Gaasch WH, Lytle BW, Nishimura RA, O'Gara PT, O'Rourke RA, Otto CM, Shah PM, Shanewise J. ACC/AHA 2006 Guidelines for the Management of Patients with Valvular Heart Disease. Executive summary. *J Am Coll Cardiol* 2006;48:589-675 and *Circulation* 2006;114:450-527
335. Bax JJ, Bonow RO, Tsöchpe D, Inzucchi SE, Barrett E. The potential of myocardial perfusion imaging to identify silent myocardial ischemia in patients with type 2 diabetes. *J Am Coll Cardiol* 2006;48:754-760
336. Gheorghiade M, Sopko, G, De Luca L, Velazquez EJ, Parker JD, Binkley PF, Sadowski Z, Golba KS, Prior DL, Rouleau JL, Bonow RO. Navigating the crossroads of coronary artery disease and heart failure. *Circulation* 2006;114:1202-1213
337. Greenland P, Bonow RO, Brundage BH, Budoff MJ, Eisenberg MJ, Grundy SM, Lauer MS, Post WS, Raggi P, Redberg RF, Rodgers GP, Shaw LJ, Taylor AJ, Weintraub WS. ACCF/AHA Writing Committee to Update the 2000 Expert Consensus Document on Computed Tomography for the Diagnosis and Prognosis of Coronary Artery Disease. *J Am Coll Cardiol* 2007;49:378-402 and *Circulation* 2006;115:402-426
338. Beohar N, Flaherty JD, Davidson CJ, Vidovich M, Singhal S, Rapp JA, Erdogan A, Lee DC, Rammohan C, Brodsky A, Wu E, Pieper K, Virmani R, Bonow RO, Mehta J.

- Granulocyte-colony stimulating factor administration after myocardial infarction in a porcine ischemia-reperfusion model: functional and pathological effects of dose timing. *Cathet Cardiovasc Intervent* 2007;69:257-66
339. Grines CL, Bonow RO, MD, Casey DE, Jr., Gardner TE, MD, Lockhart P, Moliterno DJ, O'Gara PT, Whitlow P. Prevention of premature discontinuation of dual antiplatelet therapy in patients with coronary artery stents. Science Advisory from the American Heart Association, American College of Cardiology, Society for Cardiovascular Angiography and Interventions, American College of Surgeons and American Dental Association, with representation from the American College of Physicians. *Circulation* 2007;115:813-818, *J Am Coll Cardiol* 2007;49:734-739, and *J Am Dental Assoc* 2007;138:652-655
340. Rigolin VH, Bonow RO. Hemodynamic characteristics and progression to heart failure in regurgitant lesions. *Heart Failure Clin* 2007;2:453-460
341. Rajamannan NM, Bonow RO, Rahimtoola SH. Calcific aortic stenosis: an update. *Nat Clin Pract Cardiovasc Med* 2007;4:254-262.
342. Beohar N, Flaherty JD, Davidson CJ, Vidovich MI, Brodsky A, Lee DC, Wu E, Bolson EL, Bonow RO, Sheehan FH. Quantitative assessment of regional left ventricular function with cardiac MRI: three-dimensional centersurface method. *Catheter Cardiovasc Interv* 2007; 69:721-728
343. Friedewald VE, Bonow RO, Borer JS, Carabello BA, Kleine PB, Akins CW, Roberts WC. The editor's roundtable: cardiac valve surgery. *Am J Cardiol* 2007; 99:1269-1278
344. Bax JJ, Inzucchi SE, Bonow RO, Schuijff JD, Freeman MR, Barrett E. Cardiac imaging for risk stratification in diabetes. *Diabetes Care* 2007;30:1295-1304
345. Ortiz Pérez JT, Meyers SN, Lee DC, Kansal P, Klocke FJ, Holly TA, Davidson CJ, Bonow RO, Wu E. Angiographic estimates of myocardium at risk during acute myocardial infarction: validation study using cardiac magnetic resonance imaging. *Eur Heart J* 2007; 28:1750-1758
346. Wilson W, Taubert KA, Gewitz M, Lockhart P, Baddour LM, Levison M, Bolger A, Cabell CH, Takahashi M, Baltimore RS, Newburger JW, Strom BI, Tani LY, Gerber M, Bonow RO, Pallasch T, Shulman ST, Rowley AH, Burns JC, Ferrieri P, Gardner T, Goff D, Durack DT. Prevention of infective endocarditis: recommendations from the American Heart Association. *Circulation* 2007; 116:1736-1754 and *J Am Dental Assoc* 2007;138:739-760
347. LaBresh KA, Fonarow GC, Smith SC, Bonow RO, Robertson RM, Smaha LA, Tyler PA, Skea W, Hong Y, Emond J, Albright D, Ellrodt G. Get With The Guidelines for cardiovascular disease: initial results from the American Heart Association's national program. *Crit Pathways Cardiol* 2007;6:98-105
348. Velazquez EJ, Lee KL, O'Connor CM, Oh JK, Bonow RO, Pohost GM, Feldman AM, Mark DB, Panza JA, Sopko G, Rouleau JL, Jones RH. The rationale and design of the Surgical Treatment for Ischemic Heart Failure (STICH) Trial. *J Thorac Cardiovasc Surg* 2007; 134:1540-1547
349. Canto JG, Goldberg RJ, Hand MM, Bonow RO, Sopko G, Pepine CJ, Long T. Symptom presentation of women with acute coronary syndromes: myth vs reality. *Arch Intern Med* 2007;167:2405-241
350. Tang Z, Diamond MA, Chen JM, Holly TA, Bonow RO, Dasgupta A, Hyslop T, Purzycki A, Wagner J, McNamara DM, Kukulski T, Wos S, Velazquez EJ, Ardlie K, Feldman AM. Polymorphisms in adenosine receptor genes are associated with infarct size in patients with ischemic cardiomyopathy. *Clin Pharmacol Ther* 2007;82:435-440.
351. Thygesen K, Alpert JS, White HD, Jaffe AS, Apple FS, Galvani M, Katus HA, Newby LK, Ravkilde J, Chaitman B, Clemmensen PM, Dellborg M, Hod H, Porela P, Underwood R, Bax JJ, Beller GA, Bonow RO, Van Der Wall EE, Bassand JP, Wijns W, Ferguson TB, Steg PG, Uretsky BF, Williams DO, Armstrong PW, Antman EM, Fox KA, Hamm CW, Ohman EM, Simoons ML, Poole-Wilson PA, Gurfinkel EP, Lopez-Sendon JL, Pais P, Mendis S, Zhu JR, Wallentin LC, Fernandez-Avilés F, Fox KM, Parkhomenko AN, Priori SG, Tendera M, Voipio-Pulkki LM. Universal definition of myocardial infarction. The Joint ESC/ACC/AHA/WHF Task Force for the Redefinition of Myocardial Infarction. *Eur Heart J* 2007;28:525-538; *J Am Coll Cardiol* 2007; and *Circulation* 2007;116:2634-2653
352. Bax JJ, Young LH, Frye RL, Bonow RO, Steinberg HO, Barrett E. Screening for coronary artery disease in patients with diabetes. *Diabetes Care* 2007;30:2729-2736
353. Beller GA, Bonow RO, Fuster V. ACCF 2008 Recommendations for Training in Adult Cardiovascular Medicine Core Cardiovascular Training (COCATS 3). Revision of the 2002 COCATS training statement. *J Am Coll Cardiol* 2008;51:335-338.
354. Fedak PWM, McCarthy PM, Bonow RO. Evolving concepts and techniques in mitral valve repair. *Circulation* 2008;117:963-974
355. Eimer MJ, Wright JM, Wang EC, Kulik L, Blei A, Flamm S, Beahan M, Bonow RO, Abecassis M, Gheorghide M. Frequency and significance of acute heart failure following liver transplantation. *Am J Cardiol* 2008;15:242-244
356. Bonow RO. High speed myocardial perfusion imaging: dawn of a new era in nuclear cardiology? *J Am Coll Cardiol Img* 2008;1:164-166
357. Goldberger JJ, Bonow RO, Cuffe M, Dyer A, Greenland P, Rosenberg Y, O'Rourke RA, Shah PK, Smith SJ. Post-myocardial infarction β -blocker therapy: the bradycardia conundrum. Rationale and design for the Pacemaker and β -Blocker Therapy Post-MI (PACE-MI) Trial. *Am Heart J* 2008;155:455-64
358. Bonow RO. Is appropriateness appropriate? *J Am Coll Cardiol* 2008;51:1290-1291
359. Greenland P, Bonow RO. How low-risk is a coronary calcium score of zero? The importance of conditional probability. *Circulation* 2008;117:1627-1629
360. Rosengart TK, Feldman T, Borger MA, Vassiliades T, Gillinov M, Vahanian A, Bonow RO, O'Neill W. American Heart Association statement on percutaneous and minimally invasive valve procedures. *Circulation* 2008;117:1750-1767
361. Vashist A, Bonow RO. Screening for coronary atherosclerosis with coronary calcium scoring: the "Shape" of things to come? *J Nucl Cardiol* 2008;15:162-169
362. Bonow RO. The 6th Annual Mario Verani, MD Memorial Lecture. Cardiovascular imaging: added value or added cost? *J Nucl Cardiol* 2008;15:170-177
363. Wu E, Ortiz J, Tejedor P, Lee DC, Bucciarelli Ducci C, Holly

- TA, Lloyd-Jones D, Klocke FJ, Bonow RO. Infarct size by contrast enhanced cardiac magnetic resonance is a stronger predictor of outcomes than left ventricular ejection fraction or end-systolic volume index: prospective cohort study. *Heart* 2008;94:730-736
364. Bonow RO. Bicuspid aortic valves and dilated aortas: a critical review of the critical review of the ACC/AHA guidelines recommendations. *Am J Cardiol* 2008;102:111-114
365. Beohar N, Erdogan A, Lee DC, Sabbah HN, Kern MJ, Teerlink J, Bonow RO, Gheorghiade M. Coronary perfusion and acute heart failure syndromes. *J Am Coll Cardiol* 2008; 52:13-16
366. Bonow RO, Baker DW, Behal R, Bellande B, Gabel R, Gitman PA, Helstad CP, Linder JA, Manning W, McNeil BJ, Metersky M, Normand ST, O'Tooler M, Radford M, Wall EM, Wilson DF, Burstin H. Measure testing protocol for Physician Consortium for Performance Improvement performance measures. 2008. Available at www.ama-assn.org/ama1/pub/upload/mm/370/pcpitemingprotocol.pdf.
367. Maganti K, Rigolin VH, Bonow RO. Valvular heart disease in women. *Curr Cardiovasc Risk Rep* 2008;2:217-226
368. McCarthy PM, McGee EC, Rigolin VH, Zhao Q, Subacius H, Huskin AL, Underwood S, Kane BJ, Mikati I, Bonow RO. Initial clinical experience with Myxo-ETlogix mitral valve repair ring. *J Thorac Cardiovasc Surg* 2008;136:73-81
369. Harinstein ME, Flaherty HD, Ansari AH, Robin J, Davidson CJ, Rossi J, Flamm SL, Abecassis MI, Blei AT, Bonow RO, Gheorghiade M. Predictive value of dobutamine stress echocardiography for coronary artery disease in liver transplant candidates. *Am J Transplant* 2008;8:1523-1528
370. Jones DW, Peterson ED, Bonow RO, Masoudi FA, Fonarow GC, Smith SC, Solis P, Gircus M, Hinton P, Leonard A, Gibbons RJ. Translating research into practice for healthcare providers: the American Heart Association's strategy for building healthier lives free of cardiovascular disease and stroke *Circulation* 2008; 118:687-696
371. Rubenstein JC, Ortiz JT, Wu E, Kadish A, Passman R, Bonow RO, Goldberger JJ. The use of periinfarct contrast-enhanced cardiac magnetic resonance imaging for the prediction of late postmyocardial infarction ventricular dysfunction. *Am Heart J* 2008;156:498-505
372. Bonow RO, Carabello B, Chatterjee K, De Leon AC, Jr, Faxon DP, Freed MD, Gaasch WH, Lytle BW, Nishimura RA, O'Gara PT, O'Rourke RA, Otto CM, Shah PM, Shanewise J. 2008 focused update incorporated into the ACC/AHA 2006 Guidelines for the Management of Patients with Valvular Heart Disease. *J Am Coll Cardiol* 2008;52:e1-e142 and *Circulation* 2008;118:e523-e661
373. Bonow RO. Measuring quality in heart failure: do we have the metrics? *Circ Cardiovasc Qual Outcomes* 2008;1:9-11
374. Johnson NP, Wu E, Bonow RO, Holly TA. Relation of body mass index and exercise capacity to mortality in patients with intermediate-to-high risk of coronary artery disease. *Am J Cardiol* 2008;102:10280-1033
375. Masoudi FA, Bonow RO, Brindis RG, Cannon CP, DeBuhr J, Fitzgerald S, Heidenreich PA, Ho KKL, Krumholz HM, Leber C, Magid DJ, Nilasena DS, Rumsfeld JS, Smith SC Jr, Wharton TP Jr. ACC/AHA 2008 statement on performance measurement and reperfusion therapy: a report of the ACC/AHA Task Force on Performance Measures. *Circulation* 2008;118:2649-2661 and *J Am Coll Cardiol* 2008;52:2100-2112
376. Bonow RO, Masoudi FA, Rumsfeld JS, DeLong E, Estes NAM III, Goff DC Jr, Grady K, Green LA, Loth AR, Peterson ED, Pina IL, Radford MJ, Shahian DM. ACC/AHA classification of care metrics: performance measures and quality metrics: a report of the American College of Cardiology/American Heart Association Task Force on Performance Measures. *Circulation* 2008;118:2662-2666 and *J Am Coll Cardiol* 2008;52:2113-2117
377. Maron BJ, Bonow RO, Salberg L, Roberts WC, Braunwald E. The first patient clinically diagnosed with hypertrophic cardiomyopathy. *Am J Cardiol* 2008;102:1418-1420
378. Thomas J, Zoghbi WA, Beller GA, Bonow RO, Budoff MJ, Cerqueira M, Creager MA, Douglas PS, Garcia MJ, Holmes DR, Manning WJ, Pohost GM, Ryan TJ, Van Decker WA, Wiegers SE. ACCF Training Statement on Multimodality Non-Invasive Cardiovascular Imaging. A Report of the American College of Cardiology Foundation/American Heart Association/American College of Physicians Task Force on Clinical Competence and Training. *J Am Coll Cardiol* 2009; 53:125-146
379. Flaherty JD, Bax JJ, DeLuca L, Rossi JS, Davidson CJ, Filippatos GS, Liu PP, Konstam MA, Greenberg B, Mehra MR, Breithardt G, Pang PS, Young JB, Fonarow GC, Bonow RO, Gheorghiade M. Acute heart failure syndromes in patients with coronary artery disease: early assessment, classification and treatment. *J Am Coll Cardiol* 2009;53:254-263
380. Jones DW, Peterson ED, Bonow RO, Bufalino V, Franklin B, Gardner T, Sacco R, Redberg R, Meltzer N, Solis P, Gircus M, Hinton P, Leonard A, Gibbons RJ. Partnering with patients to reduce risks and improve cardiovascular outcomes: American Heart Association initiatives in action. *Circulation* 2009;119:340-350
381. Skyler JS, Bergenstal R, Bonow RO, Buse J, Deedwania P, Gale EAM, Howard BV, Kirkman MS, Kosiborod M, Reaven P, Sherwin RS. The Role of intensive glycemic control in the prevention of cardiovascular disease: implications of the ACCORD, ADVANCE, and VADT studies. *Diabetes Care* 2009;32:187-192, *Circulation* 2009;119:351-357, and *J Am Coll Cardiol* 2009;53:298-304
382. Fuster V, van der Zee S, Elmariah S, Bonow RO. Academic careers in cardiovascular medicine. *Circulation* 2009;119: 754-760
383. Brush JE, Rensing E, Cook S, Lynch J, Thacker L, Song F, Gurram S, Bonow RO, Brough J, Valentine M. A state-wide collaborative initiative to improve the quality of care for patients with acute myocardial infarction and heart failure. *Circulation* 2009;119:1609-1615
384. Kim HW, Klem I, Shah DJ, Wu E, Meyers SN, Parker MA, Crowley AL, Bonow RO, Judd RM, Lim RJ. Unrecognized non-Q-wave myocardial infarction: prevalence and prognostic significance in patients with suspected coronary artery disease. *PLOS Medicine* 2009;6:e10000057. doi: 10.1371/journal.pmed.1000057
385. Douglas PS, Taylor A, Bild D, Bonow RO, Greenland P, Lauer M, Peacock F, Udelson JE. Outcomes research in cardiovascular imaging: report of a workshop sponsored by the National Heart Lung and Blood Institute. *J Am Coll Cardiol Img* 2009;2:897-907; *Circulation Imaging* 2009;2:339-348; *J Am Soc Echocardiogr* 2009;22:766-773; and *J Cardiovasc Comput Tomogr* 2009;3:2122-23

386. Bonow RO. Should coronary calcium screening be used in cardiovascular prevention strategies? *N Engl J Med* 2009; 361:990-997
387. Picano E, Pibarot P, Lancellotti P, Monin JL, Bonow RO. The emerging role of exercise testing and stress echocardiography in valvular heart disease. *J Am Coll Cardiol* 2009;54:2251-2260
388. Fisher ES, Weiss K, Becker L, Bonow RO, Clancy CM, de Brantes F, Dubow J, Golden WE, Ho S, Hopkins DSP, Isham GJ, Izui C, Jarris PE, Krughoff RM, Martin L, Naylor MD, O'Kane ME, Patton RM, Perlin JB, Queram CJ, Rattray MC, Sennett C, Valuck T, VanAmringe M, Weinstein J. Measurement Framework: Evaluating Efficiency Across Patient-Focused Episodes of Care. Washington DC: National Quality Forum, 2009;1-18
389. Kadish AH, Bello D, Finn P, Bonow RO, Schaechter A, Subacius H, Albert C, Daubert J, Goldberger JJ. Defibrillators to Reduce Risk by Magnetic Resonance Imaging (DETERMINE). *J Cardiovasc Electrophysiol* 2009; 20:982-987
390. Malaisrie SC, McCarthy PM, McGee EC, Lee R, Rigolin V, Davidson CJ, Lapin B, Subacius H, Beohar N, Bonow RO. Contemporary perioperative results of isolated aortic valve replacement for aortic stenosis: implications for referral of patients for valve replacement. *Ann Thorac Surg* 2010;89: 751-756
391. Maganti K, Rigolin VH, Enriquez-Sarano M, Bonow RO. Heart valve disease: diagnosis and management. *Mayo Clin Proc* 2010;85:453-500
392. Bonow RO. 2009 ASNC Keynote Lecture. Measuring cost, cost-effectiveness and quality in cardiovascular imaging. *J Nucl Cardiol* 2010;17:362-369
393. Ortiz-Pérez JT, Lee DC, Meyers SN, Davidson CJ, Bonow RO, Wu E. Determinants of myocardial salvage during acute myocardial infarction: evaluation with a combined angiographic and magnetic resonance myocardial salvage index *J Am Coll Cardiol Img* 2010;3: 491-500
394. Cohen MG, Moscucci M, Peterson ED, Dai D, Fonarow GC, Hernandez AF, Bonow RO, Smith SC Jr. Racial and ethnic differences in the treatment of acute myocardial infarction: findings from the Get With The Guidelines-CAD program. *Circulation* 2010;121:2294-2301
395. Pandya SB, Kim YH, Meyers SN, Davidson CJ, Flaherty JD, Park DW, Mediratta A, Pieper K, Reyes E, Bonow RO, Park SJ, Beohar N. Drug-eluting stents versus bare metal stents in unprotected left main coronary artery stenosis: a meta-analysis. *J Am Coll Cardiol Intv* 2010;3:602-611
396. Jones RH, White H, Velazquez EJ, Shaw LK, Pietrobon R, Panza JA, Bonow RO, Sopko G, O'Connor CM, Rouleau JL. STICH (Surgical Treatment for Ischemic Heart Failure) trial enrollment. *J Am Coll Cardiol* 2010; 56:490-498
397. Gheorghide M, Bonow RO. Early post-discharge physician visit and its impact on rehospitalization and mortality in patients admitted for acute heart failure syndromes. *Nature Rev Cardiol* 2010;7:422-424
398. Force T, Bonow RO, Houser SR, Solaro JR, Hershberger RE, Adhikari B, Anderson ME, Boineau R, Byrne B, Cappola TP, Kalluri R, LeWinter MM, Maron MS, Molkentin JD, Ommen SR, Regnier M, Tang WH, Tian R, Konstam MA, Maron BJ, Seidman CE. Research priorities in hypertrophic cardiomyopathy: report of a working group of the National Heart Lung and Blood Institute. *Circulation* 2010;122:1130-1133
399. Ortiz-Pérez JT, Betriu A, Lee DC, De Caralt TM, Meyers SN, Perea RJ, Davidson CJ, Sitges M, Bonow RO, Delgado V, Masotti M, Brugada J, Wu E. Does door-to-balloon time matter? An angiographic and magnetic resonance imaging evaluation *Am J Cardiol* 2010;106:924-930
400. Goldberger JJ, Bonow RO, Cuffe M, Dyer A, Rosenberg Y, O'Rourke RA, Shah PJ, Smith SC Jr. Beta-blocker use following myocardial infarction: low prevalence of evidence-based dosing. *Am Heart J* 2010;160:435-442
401. Metra M, Gheorghide M, Bonow RO, Dei Cas L. Post-discharge assessment after a heart failure hospitalization: the next step forward. *Circulation* 2010;122:1782-1785
402. Dilsizian V, Bonow RO. Myocardial perfusion imaging in hypertrophic cardiomyopathy. *J Am Coll Cardiol Img* 2010; 3:1078-1080
403. Spertus JA, Bonow RO, Chan P, Diamond GA, Drozda JP Jr, Kaul S, Krumholz HM, Masoudi FA, Peterson ED, Radford MJ, Rumsfeld JS, Normand ST. ACC/AHA 2010 methodology for the selection and creation of performance measures for quantifying the quality of cardiovascular care update: a report of the American College of Cardiology/ American Heart Association Task Force on Performance Measures. *Circulation* 2010;122:2091-2106 and *J Am Coll Cardiol* 2010;56:1767-1782
404. Fishman GI, Chugh S, DiMarco J, Albert C, Anderson M, Bonow RO, Buxton A, Chen PS, Estes M, Jouven X, Kwong R, Lathrop D, Mascette A, Nerbonne J, O'Rourke B, Page R, Roden D, Rosenbaum DS, Sotodehnia N, Trayanova N, Zheng ZJ. Sudden cardiac death prediction and prevention: report from a National Heart, Lung, and Blood Institute and Heart Rhythm Society workshop. *Circulation* 2010;122: 2335-2348
405. Pokorney SD, Stone NJ, Passman R, Oyer D, Rigolin VH, Bonow RO. Effect of amiodarone-induced hyperthyroidism on left ventricular outflow obstruction after septal myectomy for hypertrophic cardiomyopathy. *Am J Cardiol* 2010;106:1670-1672
406. Masoudi FA, Peterson ED, Anderson J, Bonow RO, Jacobs A. Clinical guidelines and performance measures: responsible guidance and accountability. *J Am Coll Cardiol* 2010;56:2081-2083 and *J Card Fail* 2010;16:919-921
407. Olin JW, Allie DE, Belkin M, Bonow RO, Casey DE, Creager MA, Gerber TC, Hirsch AT, Jaff MR, Kaufman JA, Lewis CA, Martin ET, Martin LG, Sheehan P, Stewart KJ, Treat-Jacobson D, White CJ, Zheng ZJ. ACCF/AHA/ACR/SCAI/SIR/SVM/SVN/SVS 2009 clinical performance measures for adults with peripheral artery disease. *Circulation* 2010;122:2583-2618 and *J Am Coll Cardiol* 2010;56:2147-2181
408. Casey D, Lamb G, Antonelli R, Asplin B, Bonow R, Bowles K, Clohan D, Driscoll M, Duncan K, Farris K, Frampton, Golden R, Halasyamani L, Holmboe E, Kern M, Klotz C, Leonard M, Lichtenstein K, O'Dell M, Petrusis A, Quinn J, Ranghell K, Scott C, Stumpf D, Sweeney J, Wenger N, Willis-Fillinger D. Preferred Practices and Performance Measures for Measuring and Reporting Care Coordination: A Consensus Report. Washington, DC: National Quality Forum. 2010;1-67
409. Vaishnava P, Fuster V, Goldman M, Bonow RO. Surgery for

- asymptomatic, degenerative aortic and mitral valve disease. *Nature Rev Cardiol* 2011;8:173-177
410. Bonow RO. Aortic regurgitation: time to reassess timing of valve replacement? *J Am Coll Cardiol Img* 2011;4:231-233
411. Bonow RO. Valvular heart disease: patient need and practice guidelines. *Aswan Heart Centre Science & Practice Series* 2011;5 doi: 10.5339/ahcsp.2011.5
412. Velazquez EJ, Lee K, Deja MA, Jain A, Sopko G, Marchenko A, Ali IS, Pohost G, Gradinac S, Abraham WT, Yii M, Prabhakaran D, Szwed H, Ferrazzi P, Petrie MC, O'Connor CM, Panchavinnin P, She L, Bonow RO, Roush Rankin G, Jones RH, Rouleau J-L, on behalf of the Surgical Treatment of Ischemic Heart Failure (STICH) Investigators. Coronary artery bypass graft surgery in patients with left ventricular dysfunction. *N Engl J Med* 2011;364:1607-1616
413. Bonow RO, Maurer G, Lee KL, Holly TA, Binkley PF, Desvigne-Nickens P, Drozd J, Farsky P, Feldman AM, Doenst T, Michler RE, Berman DS, Nicolau JC, Pellikka PA, Wrobel K, Alotti N, Asch FM, Favalaro LE, She L, Velazquez EJ, Jones RH, Panza PA, on behalf of the Surgical Treatment of Ischemic Heart Failure (STICH) Investigators. Myocardial viability and survival in ischemic left ventricular dysfunction. *N Engl J Med* 2011;364:1617-1625
414. Buxton DB, Antman M, Danthi N, Dilisizian V, Fayad ZA, Garcia MJ, Jaff MR, Klimas M, Libby P, Nahrendorf M, Sinusas AJ, Wickline SA, Wu JC, Bonow RO, Weissleder R. Report of the National Heart, Lung, and Blood Institute working group on the translation of cardiovascular molecular imaging. *Circulation* 2011;123:2157-2163
415. Bufalino V, Masoudi F, Albert N, Beam C, Bonow RO, Davenport RL, Girgus M, Horton K, Fonarow GC, Krumholz HM, Legnini M, Lewis W, Nichol G, Peterson ED, Rosamond W, Rumsfeld J, Schwamm L, Stranne SK, Shahian DM, Spertus J, Woodard P, Yancy C. The American Heart Association's recommendations for expanding the applications of existing and future clinical registries. *Circulation* 2011;123:2167-2179
416. Drozda J, Messer JV, Abramowitz B, Alexander K, Beam CT, Bonow RO, Burkiewicz JS, Crouch M, Goff DC Jr, Hellman R, James T III, King ML, Machado EA Jr, Ortiz E, O' Toole M, Persell SD, Pines JM, Rybicki FJ, Sadwin LB, Sikkema JD, Smith PK, Torcson PJ, Wong JB. ACCF/AHA/AMA-PCPI 2010 clinical performance measures for adults with coronary artery disease and hypertension. *Circulation* 2011;124:248-270 and *J Am Coll Cardiol* 2011;58:316-336
417. Bonow RO. Surgical ventricular reconstruction for heart failure: is there life after STICH? *J Am Coll Cardiol Img* 2011;4:771-773
418. Gheorghide M, Flaherty JD, Fonarow G, Filippatos G, Bonow RO, Lee R, McGriffin D, Eichhorn EJ, Love TE, Aban I, Ahmed A. Coronary artery disease, revascularization and outcomes in chronic advanced systolic heart failure. *Int J Cardiol* 2011;151:69-75
419. Harinstein ME, Flaherty JD, Fonarow GC, Mehra MR, Lang RM, Kim, RJ, Cleland JG, Knight, BP, Pang PS, Bonow RO, Gheorghide M. Clinical assessment of acute heart failure syndromes: emergency department through the early post-discharge period. *Heart* 2011;96:1607-1618
420. Adams D, Bonow RO, Carabello B, Martin R. Update on decision-making in degenerative mitral valve disease. *Med Roundtable* 2011;2:181-189
421. Bonow RO, Douglas PS, Buxton A, Cohen DJ, Curtis DJ, DeLong E, Drozda, JP, Ferguson TB, Heidenreich PA, Hendel RC, Masoudi FA, Peterson ED, Taylor AJ. ACCF/AHA methodology for development of quality measures for cardiovascular technology. A report of the American College of Cardiology Foundation/ American Heart Association Task Force on Performance Measures. *Circulation* 2011;124:1483-1502 and *J Am Coll Cardiol* 2011;58:1517-1538
422. Klein L, Grau-Sepulveda MV, Bonow RO, Hernandez AF, Williams MV, Bhatt, DL, Fonarow GC. Quality of care and outcomes in women hospitalized for heart failure. *Circ Heart Fail* 2011;4:589-598
423. Okada DR, Okada RD, Bonow RO. Beta adrenergic receptor blockade causing severe left ventricular dysfunction during dobutamine stress echocardiography in a patient with no structural heart disease. *Echocardiography* 2011;DOI:10.1111/j.1540-8175.2011.01538.x
424. Prasad V, Bonow RO. The cardiovascular biomarker conundrum: challenges and solutions. *JAMA* 2011;306:2151-2152
425. Smith SC Jr, Benjamin EJ, Bonow RO, Braun L, Creager M, Franklin BA, Gibbons RJ, MD, Grundy FS, Hiratzka L, Jones D, Lloyd-Jones D, Minissian M, Mosca L, Peterson E, Sacco R, Spertus J, Stein JH, Taubert K. AHA/ACC secondary prevention and risk reduction therapy for patients with coronary and other vascular disease: 2011 update. *Circulation* 2011;124:2458-2473 and *J Am Coll Cardiol* 2011;58:2432-2446
426. Bonow RO, Holly TA. Myocardial viability testing: still viable after STICH? *J Nucl Cardiol* 2011;18:991-994
427. Gersh BJ, Maron BJ, Bonow RO, Dearani JA, Fifer MA, Link MS, Naidu SS, Nishimura RA, Ommen SR, Rakowski H, Towbin J, Udelson JE, Yancy CW. 2010 ACCF/AHA guidelines for the diagnosis and treatment of hypertrophic cardiomyopathy. A report of the American College of Cardiology Foundation/American Heart Association Task Force on Practice Guidelines. *Circulation* 2011;124:e783-e831, *J Am Coll Cardiol* 2011;58:e212-e-260, and *J Thorac Cardiovasc Surg* 2011;142:e153-203
428. Gersh BJ, Maron BJ, Bonow RO, Dearani JA, Fifer MA, Link MS, Naidu SS, Nishimura RA, Ommen SR, Rakowski H, Towbin J, Udelson JE, Yancy CW. 2010 ACCF/AHA guidelines for the diagnosis and treatment of hypertrophic cardiomyopathy. A report of the American College of Cardiology Foundation/American Heart Association Task Force on Practice Guidelines. Executive Summary *Circulation* 2011;124:2761-2796, *J Am Coll Cardiol* 2011;58:2703-2738, and *J Thorac Cardiovasc Surg* 2011;142:1303-1338
429. Bonow RO: What's past is prologue: advances in cardiovascular imaging. *The Lancet* 2012;379:393-395
430. Nistri S, Faggiano P, Olivetto I, Papesso B, Bordonali T, Vescovo G, Dei Cas L, Cecchi F, Bonow RO. Hemodynamic progression of aortic stenosis in primary care: an echocardiographic study. *Am J Cardiol* 2012;109:718-723
431. Mujib M, Desai RV, Ahmed MI, Guichard J, Feller MA, Ekundayo OJ, Deedwania P, Ali M, Aban IB, Love TE, White M, Aronow WS, Rahimtoola SH, Bonow RO, Ahmed

- A. Rheumatic heart disease and risk of incident heart failure among community-dwelling older adults: a prospective cohort study. *Ann Med* 2012;44:253-261
432. Bonow RO, Ganiats TG, Beam CT, Blake K, Casey DE, Goodlin SJ, Grady KL, Hundley RF, Jessup M, Lynn TE, Masoudi FA, Nilasena D, Sadwin L, Piña IL, Sikkema JD, Sincak CA, Spertus J, Torcson PJ, Torres E, Williams MV, Wong JD. ACCF/AHA/PCPI 2011 clinical performance measures for adults with heart failure. A report of the American College of Cardiology Foundation/American Heart Association Task Force on Performance Measures and the Physician Consortium for Performance Improvement. *Circulation* 2012;125:2382-2401 and *J Am Coll Cardiol* 2012;59:1812-1832.
433. Bailey SR, Patel MR, Bonow RO, Chambers CE, Chan PS, Dehmer GJ, Kirtane AJ, Wann LS, Ward RP. Appropriate use criteria for diagnostic catheterization. *J Am Coll Cardiol* 2012;59:1995-2027
434. Vaduganathan M, Stone NJ, Adin-Cristian A, Lee R, Kansal P, Silverberg RA, Bonow RO, McCarthy PM. Midterm benefits of preoperative statin therapy in patients undergoing isolated valvular heart surgery: a propensity score analysis of a 6-year surgical series. *Ann Thorac Surg* 2012;93:1881-1887
435. Malaisrie Lee R, Kruse J, Lapin B, Wang EC, Bonow RO, McCarthy PM. Atrial fibrillation ablation in patients undergoing aortic valve replacement. *J Heart Valve Dis* 2012;21:350-357
436. Selvaraj S, Klein I, Danzi S, Akhter N, Bonow RO, Shah SJ. Association of triiodothyronine with B-type natriuretic peptide and diastolic dysfunction in heart failure with preserved ejection fraction. *Am J Cardiol* 2012;110:234-239
437. Desai C, Bonow RO. Transcatheter aortic valve replacement: balancing benefits, risks, and expectations. *JAMA* 2012;308:573-574
438. Bonow RO. Exercise hemodynamics and risk assessment in asymptomatic aortic stenosis. *Circulation* 2012;126:803-805
439. Marzilli M, Bairey Merz N, Boden WE, Bonow RO, Capozza PG, Chilian WM, DeMaria AN, Guarini G, Huqi A, Morrone D, Patel MR, Weintraub WS. Obstructive coronary atherosclerosis and ischemic heart disease: an elusive link. *J Am Coll Cardiol* 2012;60:951-956
440. Pokorney SD, Rodriguez JF, Ortiz JT, Lee DD, Bonow RO, Wu E. Infarct healing is a dynamic process following acute myocardial infarction. *J Cardiovasc Magn Reson* 2012;14:62. www.jcmr-online.com/content/14/1/62
441. Clark MA, Duhay F, Thompson AK, Keyes MJ, Svensson LG, Bonow RO, Stockwell BT, Cohen DJ. Five-year clinical and economic outcomes among patients with medically managed severe aortic stenosis: results from a Medicare claims analysis. *Circ Cardiovasc Qual Outcomes* 2012;5:697-704
442. Clark MA, Duhay F, Thompson AK, Keyes MJ, Svensson LG, Bonow RO, Stockwell BT, Cohen DJ. Clinical and economic outcomes after surgical valve replacement: in Medicare patients. *Risk Manag Healthc Policy* 2012;5:117-126
443. Thygesen K, Alpert JS, White HD, Jaffe AS, Katus HA, Apple FS, Lindahl B, Morrow DA, Chaitman BR, Clemmensen PM, Johanson P, Hod H, Underwood R, Bax JJ, Bonow RO, Pinto F, Gibbons R, Fox KA, Atar D, Newby LK, Galvani M, Hamm CW, Uretsky BF, Steg PG, Wijns W, Bassand JP, Menasché P, Ravkilde J, Ohman EM, Antman EM, Wallentin LC, Armstrong PW, Simoons ML, Januzzi J, Nieminen M, Gheorghiade M, Filippatos G, Luepker RW, Fortmann SP, Rosamond WD, Levy D, Wood D, Smith SC, Hu D, Lopez-Sendon JL, Robertson RM, Weaver D, Tendera M, Bove AA, Parkhomenko AN, Vasilieva EJ, Mendis S. Third universal definition of myocardial infarction. *Circulation* 2012;126:2020-2035; *J Am Coll Cardiol* 2012; 60:1581-1598; *Eur Heart J* 2012; 33:2551-2567; *Global Heart* 2012;4:275-295
444. Michler RE, Rouleau JL, Al-Khalidi H, Bonow RO, Pellikka P, Pohost GH, MD, Holly TA, Oh JK, Dagenais F, MD, Milano C, Wrobel K, Pirk J, Ali I, Hellkamp A, Velazquez EJ, Lee K, PhD, Di Donato M. Insights from the STICH Trial: change in left ventricular size after coronary artery bypass graft surgery with and without surgical ventricular reconstruction. *J Thorac Cardiovasc Surg* 2012; Epub Oct 27. doi.org/10.1016/j.jtcvs.2012.09.007
445. Greene SJ, Vaduganathan M, Lupi L, Ambrosy AP, Mentz RJ, Konstam MA, Nodari S, Subacius HP, Fonarow GC, Bonow RO, Gheorghiade M, EVEREST Trial Investigators. Prognostic significance of serum total cholesterol and triglyceride levels in patients hospitalized for heart failure with reduced ejection fraction (from the EVEREST Trial). *Am J Cardiol* 2012; Epub Nov 30. doi.org/10.1016/j.amjcard.2012.10.042
446. ElGuindy AM, Bonow RO. FAME 2 - The best initial strategy for patients with coronary artery disease: do we have an answer at last? *Global Cardiol* 2012;18.<http://dx.doi.org/10.5339/gcsp.2012.18>
447. Bonow RO. Guidelines for revascularization: the evidence base matures. *Global Cardiol* 2012;21.<http://dx.doi.org/10.5339/gcsp.2012.21>.
448. Gehani A, Al Suwaidi J, Arafa S, Tamimi O, Alqahtani A, Al-Nabti A, Arabi A, Aboughazala T, Bonow RO, Yacoub M. Primary coronary angioplasty for ST-elevation myocardial infarction in Qatar: first nation-wide program. *Global Cardiol* 2012; 23.<http://dx.doi.org/10.5339/gcsp.2012.23>
449. Bonow RO. Chronic mitral regurgitation and aortic regurgitation: have indications for surgery changed? *J Am Coll Cardiol* 2012; Epub Dec 13. doi.org/10.1016/j.jacc.2012.08.1025
450. Mentz RJ, Allen BD, Kwasny MJ, Konstam MA, Udelson JE, Ambrosy AP, Fought AJ, O'Connor CM, Zannad F, Maggioni AP, Swedberg K, Bonow RO, Gheorghiade M. Coronary artery disease is associated with cardiovascular mortality and heart failure rehospitalization in patients admitted for worsening heart failure with reduced ejection fraction in the EVEREST trial. *Eur J Heart Fail* 2013;15:61-68
451. Collins S, Pang PS, Fonarow GC, Yancy CW, Bonow RO, Gheorghiade M. Is hospital admission for heart failure really necessary? The role of the ED and observation unit in preventing hospitalization and rehospitalization for heart failure. *J Am Coll Cardiol* 2013;61:121-126
452. Oh JK, Velazquez E, Menicanti L, Pohost GM, Bonow RO, Lin G, Hellkamp AS, Ferrazzi P, Wos S, Rao V, Berman DS, Bochenek A, Cherniavsky A, Rogowski J, Rouleau JL, Lee K. Influence of baseline left ventricular function on the clinical outcome of surgical ventricular reconstruction. *Eur Heart J* 2013;34:39-47

453. Gheorghiade M, Vaduganathan M, Fonarow GC, Bonow RO. Rehospitalization for heart failure: problems and perspectives. *J Am Coll Cardiol* 2013;61:391-403
454. Vaduganathan M, Bonow RO, Gheorghiade M. Thirty day readmissions: the clock is ticking. *JAMA* 2013;309:345-346
455. Farmer SA, Black B, Bonow RO. The tension between quality measurement, public quality reporting, and pay for performance. *JAMA* 2013;309:349-350.
456. Berliner J, Kino A, Carr J, Bonow RO, Choudhury L. Cardiac computed tomographic imaging to evaluate myocardial scarring/fibrosis in patients with hypertrophic cardiomyopathy: a comparison with cardiac magnetic resonance imaging. *Int J Cardiovasc Imaging* 2013; 29:191-197
457. Sarma S, Mentz RJ, Kwasny MJ, Fought AJ, Huffman M, Subacius H, Nodari S, Konstam M, Swedberg K, Maggioni AP, Zannad F, Bonow RO, Gheorghiade M. Association between diabetes mellitus and post-discharge outcomes in patients hospitalized with acute heart failure: findings from the EVEREST trial. *Eur J Heart Fail* 2013;15:194-202
458. Svensson LG, Adams D, Bonow RO, Kouchoukos N, Miller, DC, O'Gara PT, Shahian D, Schaff H, Akins CW, Bavaria J, Blackstone EH, David TE, Desai ND, Dewey T, D'Agostino R, Gleason T, Harrington KB, Kodali S, Kapadia S, Leon MB, Lima B, Lytle B, Mack MJ, Reece B, Reiss GR, Roselli E, Smith CR, Thourani V, Tuzcu M, Webb J, Williams MR. Society of Thoracic Surgeons aortic valve and ascending aorta guidelines for management and quality measures. *Ann Thorac Surg* 2013; Epub Jan 2. doi:p11: S0003-4975(12)02878-0.
459. Lindman B, Bonow RO, Otto CM. Current management of calcific aortic stenosis. *Circ Res* (in press)
460. Bonow RO, Chung J, Kaleba EO, Baker DW, Behal R, Gabel R, Gitman P, Helstad C, Linder JA, McNeil BJ, Manning W, Metersky M, Normand ST, O'Toole M, Radford M, Wall E, Kmetik K. Clinical performance measurement: why testing measures matters (submitted for publication).
461. Malaisrie SC, MD, Kubasiak J, Tuday E, Lapin B, Wang E, McGee EC Jr, Lee R, Maganti K, Bonow RO, McCarthy PM. Aortic valve replacement is associated with increased survival in asymptomatic patients with severe aortic stenosis (submitted for publication).
462. Udelson JE, Iteld BJ, Weiland FL, Foster JB, Bonow RO, Ficarò EP, Heller GV, Wackers FJT, Barrett RJ, Pixton GC, RJ Gibbons. Vasodilator Induced Stress in Concordance with Adenosine (VISION) Pivotal Trial Program: multicenter, randomized, risk-stratified, double-blind, double-dummy, active-controlled crossover trials of the efficacy and safety of binodenoson pharmacologic stress for myocardial perfusion imaging (submitted for publication).
463. Panza JA, Asch F, Holly TA, Rumsey M, Kalil R, Aldbrecht C, Siepe M, Teresinska A, Orsinelli D, She L, Bonow RO. Comparison of dobutamine echocardiography and single photon emission computed tomography for the assessment of myocardial viability in individual patients with ischemic cardiomyopathy: a report from the STICH Trial (submitted for publication).
464. Zareba KM, Bonow RO, Ansari A, Puthumana J, Anjan VY, Chacko SJ, Lapin BR, Akhter N, McCarthy PM, Rigolin VH. Late referral of women for valve surgery: implications for complications and survival (submitted for publication).
465. Wilcox JE, Bonow RO, Gheorghiade M. Myocardial viability in patients with acute heart failure syndromes and reduced ejection fraction: prognostic and therapeutic implications (submitted for publication).
466. Gupta DK, Burke MA, Anjan VY, Gheorghiade M, Bonow RO, Shah SJ. Impact of coronary artery disease on heart failure with preserved ejection fraction: clinical characteristics, echocardiographic features, and outcomes (submitted for publication).
467. Zhao Q, McCarthy PM, Lang RM, Veronesi F, Sonne C, Kane BJ, Bonow RO, Rigolin VH. Identification of the differential pattern of cardiac remodeling following mitral valve repair using three dimensional echocardiography and tissue Doppler imaging (submitted for publication).
468. Chacko SJ, Ansari AA, McCarthy PJ, Malaisrie SC, Lapin B, Andrei AC, Lee R, McGee E, Bonow RO, Puthumana JJ. Patient-prosthesis mismatch in bioprosthetic aortic valves: evaluation using three different modalities and associated long-term outcomes (submitted for publication).
469. Shah DJ, Kim HW, James O, Parker M, Wu E, Bonow RO, Judd RM, Kim RJ. The prevalence and potentially reversible nature of regional myocardial thinning in patients with coronary artery disease (submitted for publication) (submitted for publication).
470. Rinewalt D, McCarthy PM, Malaisrie SC, Fedak PWM, Lapin BR, Andrei AC, Puthumana JJ, MD, Bonow RO. Impact of aortic resection on outcomes after bicuspid aortic valve surgery: validation of contemporary guidelines (submitted for publication).
471. Panza JA, Holly TA, Asch FM, She L, Pellikka PA, Velazquez EJ, Lee KL, Borges-Neto S, Farsky PS, Jones RH, Berman DS, Bonow RO. Impact of inducible myocardial ischemia on the effect of surgical revascularization over medical therapy in patients with coronary artery disease and left ventricular dysfunction: a report from the STICH trial (submitted for publication)
472. Pepe G, Porciani C, Attanasio M, Nistri S, Abbate R, Bonow RO, Yacoub M, Gensini GF. Point fibrillin 1 gene mutations in patients with bicuspid aortic valve (submitted for publication)
473. Gheorghiade M, Shah AN, Vaduganathan M, Butler J, Bonow RO, Taylor S, Kupfer S, Dunnmon P, Misselwitz F, Sharma A, Fonarow GC. Patients hospitalized for heart failure: why and how to develop new therapies to improve outcomes. Clinician, industry, regulatory, and payer perspective (submitted for publication)
474. Schelbert EB, Fonarow GC, Bonow RO, Butler J, Gheorghiade, M. Refocusing on the interstitium as a target for therapy in heart failure (submitted for publication)

Symposia/Monographs

1. Bonow RO, Galie N, Gheorghiade M, Magnani B, eds. Prostacyclin: Basic Principles and Clinical Application in Congestive Heart Failure and Primary Pulmonary Hypertension. *Am J Cardiol* 1995;75:1A-73A
2. Bonow RO, Gheorghiade M, Greenland P, Noble J, eds. Identification and Management of Risk in Patients with Coronary and Other Vascular Disease. *Am J Med* 1996;101 (suppl 4A):1S-83S
3. Gheorghiade M, Bonow RO, eds. Heart Failure as a Manifestation of Coronary Artery Disease. *Coronary Artery Disease* 1998;9:623-690
4. Gheorghiade M, Bonow RO, eds. Use of Beta-Blocker Therapy for Mild-to-Moderate Chronic Heart Failure. *Am J Med* 2001;110 (suppl 7A):1S-93S
5. Beller GA, Bonow RO, Fuster V, eds. Revised Guidelines for Training in Adult Cardiovascular Medicine: Core Cardiology Training II (COCATS 2). *J Am Coll Cardiol* <http://www.acc.org/clinical/training/cocats2.pdf>
6. de Luca I, Bonow RO, Gheorghiade M, Fedele F, eds. From Prevention to Management of Chronic Heart Failure. *Am J Cardiol* 2003;91(suppl 9F):1F-94F
7. Gheorghiade M, Bonow RO, eds. Optimal Care of the Patient With Diabetes Across the Cardiovascular Disease Spectrum. *Am J Med* 2004;116(5A):1S-90S
8. Fuster V, Bonow RO, eds. How to Become a Cardiovascular Investigator. *J Am Coll Cardiol* 2005;46:A1-A70
9. Beller GA, Bonow RO, Fuster V, eds. ACCF 2007 Recommendations for Training in Adult Cardiovascular Medicine Core Cardiovascular Training (COCATS 3). Revision of the 2002 COCATS training statement. *J Am Coll Cardiol* 2008;51:333-414
10. The Joint Commission. Sudden Cardiac Arrest: Meeting the Challenge. 2011;1-81. Technical panel: Adams N, Al-Khatib S, Bonow RO, Campbell R, Carius ML, Chambers CE, Colgan K, Jones, KC, Kehoe R, Khan BV, Marett B, Masoudi FA, Mosesso V, Puffer JC, Wang HE.

Books

1. Rengo F, Bonow RO, Gheorghiade G, eds. *Heart Failure in the Elderly: Implications for Rehabilitation*. Pavia: Maugeri Foundation Books 2000:pp 171
2. Rengo F, Bonow RO, Gheorghiade G, eds. *Heart Failure in the Elderly: The Evolution of Chronic Heart Failure*. Pavia: Maugeri Foundation Books 2002:pp 171
3. Bonow RO, Beam CT, Grant AO, eds. *For Science. For Life. For 75 Years. A History of the American Heart Association's Annual Scientific Sessions*. Dallas: American Heart Association 2002:pp 104
4. Bettman M, Alpert JS, Balke CW, Bonow RO, Chin MT, Costa F, Daniels SR, Fabumni R, Faxon D, Gardner TJ, Goff DC, Hong Y, Ingwall J, Patterson B, Robertson RM, Taubert K, Tiukinhoy SD, Watson K, Webb RC. *American Heart Association Mentoring Handbook*. Dallas: American Heart Association 2003:pp 109
5. Zipes DP, Libby P, Bonow RO, Braunwald E, eds. *Braunwald's Heart Disease: A Textbook of Cardiovascular Medicine*. 7th Edition. Philadelphia: Elsevier Science, 2004:pp 2183
6. Libby P, Bonow RO, Mann D, Zipes DP, eds. *Braunwald's Heart Disease: A Textbook of Cardiovascular Medicine*. 8th Edition. Philadelphia: Elsevier Science, 2007:pp 2183
7. Otto CM, Bonow RO. *Valvular Heart Disease. A Companion to Braunwald's Heart Disease*. Philadelphia: Elsevier Science, 2009:pp 452
8. Bonow RO, Mann D, Zipes DP, Libby P, eds. *Braunwald's Heart Disease: A Textbook of Cardiovascular Medicine*. 9th Edition. Philadelphia: Elsevier Science 2011:pp 1961

Book Chapters

1. Kent KM, Bonow RO, Rosing DR, Lipson LC, Bacharach SL, Green MV, Epstein SE. Improved myocardial perfusion and function following percutaneous transluminal coronary angioplasty. In: *Proceedings of the Workshop on Percutaneous Transluminal Coronary Angioplasty*. Washington: U.S. Department of H.E.W. Publ. No. 80-2030, 1980:39-47
2. Bonow RO, Epstein SE. Effects of verapamil on left ventricular filling in patients with hypertrophic cardiomyopathy. In: Zanchetti A, Krikler DM, eds. *Calcium Antagonism in Cardiovascular Therapy: Experience with Verapamil*. Amsterdam: Excerpta Medica, 1981: 363-369
3. Bacharach SL, Green MV, DeGraaf CN, van Rijk PP, Bonow RO, Johnston GS. Fourier phase distribution maps of the left ventricle. In: Esser PD, ed. *Functional Mapping of Organ Systems and Other Computer Topics*. New York: Society of Nuclear Medicine, 1981:139-148
4. Borer JS, Bonow RO, Bacharach SL, Green MV. The effects of nitroglycerin in patients with valvular heart disease: hemodynamic and radionuclide cineangiographic studies. In: Lichtlen, Engels, eds. *Proceedings of the Third International Symposium on Nitrates*. Berlin: Springer-Verlag, 1981: 546-551
5. Rosing DR, Kent KM, Bonow RO, Epstein SE. Acute hemodynamic effects of verapamil in hypertrophic cardiomyopathy. In: Kaltenbach M, Epstein SE, eds. *Hypertrophic Cardiomyopathy: the Therapeutic Role of Calcium Antagonists*. New York: Springer-Verlag, 1982: 124-137
6. Rosing DR, Condit JR, Maron BJ, Kent KM, Leon MB, Bonow RO, Lipson LC, Epstein SE. Long-term clinical effects of verapamil in patients with hypertrophic cardiomyopathy. In: Kaltenbach M, Epstein SE, eds. *Hypertrophic Cardiomyopathy: the Therapeutic Role of Calcium Antagonists*. New York: Springer-Verlag, 1982:187-202
7. Bacharach SL, DeGraaf CN, Green MV, van Rijk PP, Bonow RO, Schiepers CW, Lie OY, Johnston GS. Phase/amplitude distribution functions for objective assessment of left ventricular wall motion. In: Goris ML, ed. *Medical Image Processing. Proceedings of the VII International Meeting on Information Processing in Medical Imaging*. Stanford: Stanford University Press, 1982:171-192

8. Bonow RO. Aortic regurgitation: medical assessment and surgical intervention. In: Stollerman GH, ed. *Advances in Internal Medicine*. Vol 28. Chicago: Year Book Medical Publishers, 1983:93-113
9. Bacharach SL, Green MV, Bonow RO, DeGraaf CN, van Rijk PP, Johnston GS. Cluster analysis of Fourier phase maps to detect left ventricular wall motion defects. In: Raynaud C, ed. *Nuclear Medicine and Biology Advances*. New York: Pergamon Press, 1983:42-45
10. Packer M, Leon MB, Bonow RO, Kieval J, Rosing DR, Balasubramanian V. Hemodynamic and clinical effects of combined therapy with verapamil and propranolol in ischemic heart disease. In: Packer M, Frishman WH, eds. *Calcium Channel Antagonists in Cardiovascular Disease*. Norwalk, CT: Appleton-Century-Crofts, 1984:143-165
11. Rosing DR, Bonow RO, Packer M, Epstein SE. Verapamil therapy for the management of hypertrophic cardiomyopathy. In: Packer M, Frishman WH, eds. *Calcium Channel Antagonists in Cardiovascular Disease*. Norwalk, CT: Appleton-Century-Crofts, 1984:313-339
12. Bacharach SL, Green MV, Vitale DF, Bonow RO, Douglas MA, Jones AE, Larson SM. Fourier filtering cardiac time-activity curves: sharp cutoff filters. In: Deconninck F, ed. *Proceedings of the VIII International Conference on Information Processing in Medical Imaging*. Den Haag: Martinus-Nijhoff Publishers, 1984:266-281
13. Epstein SE, Maron BJ, Bonow RO, Rosing DR, Cannon RO. Pathophysiologic mechanisms responsible for the clinical spectrum of hypertrophic cardiomyopathy. In: van der Wall E, Lie KL, eds. *Recent Views on Hypertrophic Cardiomyopathy*. Boston: Martinus-Nijhoff Publishers, 1985: 133-143
14. Bonow RO. Non-invasive evaluation. Prognosis and timing of operation in the symptomatic and asymptomatic patient with aortic regurgitation. In: Cohn LH, DiSesa VJ, eds. *Aortic Regurgitation: Medical and Surgical Management*. New York: Marcel Dekker, 1986:107-137
15. Bonow RO. Left ventricular diastolic function: evaluation by radionuclide ventriculography. In: Pohost GM, ed. *New Concepts in Cardiac Imaging 1987*. Chicago: Year Book Medical Publishers, 1987:107-137
16. Epstein SE, Rosing DR, Bonow RO, Maron BJ, Leon MB. The use of verapamil in the treatment of hypertrophic cardiomyopathy. In: Fleckenstein A, Laragh JH, eds. *Hypertension--The Next Decade*. London: Churchill Livingstone, 1987:120-129
17. Bonow RO. Left ventricular filling in ischemic and hypertrophic heart disease. In: Grossman W, Lorell BH, eds. *Diastolic Relaxation of the Heart*. Boston: Martinus Nijhoff Publishers, 1987:231-243
18. Bonow RO. Optimal timing of aortic valve replacement. In: Gaasch WH, Levine HJ, eds. *Chronic Aortic Regurgitation*. Boston: Martinus-Nijhoff Publishers, 1988: 177-192
19. Bonow RO, Leon MB, Maron BJ, Cannon RO, Epstein SE. The medical and surgical therapy of hypertrophic cardiomyopathy. In: Shaver JA, ed. *Cardiomyopathies: Clinical Presentation, Differential Diagnosis, and Management*. Philadelphia: F.A. Davis, 1988:221-239
20. Bonow RO. Functional evaluation of acute myocardial ischemia: ejection fraction vs regional contractility. In: Dagianti A, Feigenbaum H, eds. *Echocardiography 1988: Proceedings of the 6th International Congress on Echocardiography*. Amsterdam: Elsevier Science, 1988:9-13
21. Bonow RO. The value of radioisotope blood pool imaging for evaluation of valvular heart disease. In: Brundage BH, ed. *Comparative Cardiac Imaging*. Rockville, MD: Aspen Publishers, 1990:329-328
22. Bonow RO. Left ventricular diastolic function and myocardial ischemia in hypertrophic cardiomyopathy: assessment by radionuclide techniques. In: Baroldi G, Camerini F, Goodwin JF, eds. *Advances in Cardiomyopathies*. Berlin: Springer-Verlag, 1990:58-71
23. Bacharach SL, Bonow RO. Left ventricular diastolic function: technical considerations. In: Ezkurdia MMI, Gorostiza JDS, de Miguel EM, eds. *Advances in the Diagnosis and Treatment of Heart Failure*. Barcelona: J.R. Prous, 1990:53-62
24. Bonow RO, Leon MB, Maron BJ, Cannon RO, Epstein SE. Management of patients with hypertrophic cardiomyopathy. In: Andries E, Stroobandt R, eds. *Hemodynamics in Practice*. Dordrecht, Netherlands: Kluwer Academic Publishers, 1991:137-157
25. Bonow RO. Gated equilibrium blood pool imaging: current role for diagnosis and prognosis in coronary artery disease. In: Zaret BL, Beller GA, eds. *Nuclear Cardiology*. St. Louis: C.V. Mosby Company 1992:123-136
26. Bonow RO, Dilisizian V. The hibernating myocardium. In: Freeman LN, ed. *1992 Nuclear Medicine Annual*. New York: Raven Press, Ltd, 1992:1-20
27. Bonow RO. Identification of viable myocardium in patients with coronary artery disease and left ventricular dysfunction. In: Dagianti A, Feigenbaum H, eds. *Echocardiography 1993*. Amsterdam: Elsevier Science Publishers, 1993:207-212
28. Bonow RO. Clinical standards for hibernation. In: Ferrari R, Harris P, eds. *Stunning and Hibernation in the Heart*. Venice: Canal Press, 1993:91-93
29. Bonow RO. Left ventricular response to exercise. In: Fletcher GF, ed. *Cardiovascular Response to Exercise*. American Heart Association Monograph Series. Mount Kisco: Futura Publishing Co., 1993:31-47
30. Udelson JE, Bonow RO. Radionuclide angiographic evaluation of left ventricular diastolic function. In: Gaasch WH, LeWinter MM, eds. *Heart Failure and Left Ventricular Diastolic Dysfunction*. Philadelphia: Lea and Febiger, 1994:167-191
31. Udelson JE, Bonow RO. Left ventricular diastolic function and calcium channel blockers in hypertrophic cardiomyopathy. In: Gaasch WH, LeWinter MM, eds. *Heart Failure and Left Ventricular Diastolic Dysfunction*. Philadelphia: Lea and Febiger, 1994:462-489
32. Bonow RO. Noninvasive testing for risk stratification after acute myocardial infarction. In: Maresta A, ed. *Advances in Cardiology and Cardiac Surgery*. Ravenna: Avis Provinciale, 1994:13-18
33. Bonow RO. Aortic valve disease: non-invasive and hemodynamic evaluation. In: Maresta A, ed. *Advances in Cardiology and Cardiac Surgery*. Ravenna: Avis Provinciale, 1994:285-290
34. Bonow RO. Comparison of SPECT with other advanced cardiac imaging modalities. In: DePuey G, Garcia E, Berman DS, eds. *Cardiac SPECT*. New York: Raven Press, 1994: 275-285

35. Bonow RO. Assessment of myocardial viability in hibernating myocardium. In: Murray IPC, Ell PJ, eds. *Nuclear Medicine in Clinical Diagnosis and Treatment*. Edinburgh: Churchill Livingstone, 1994:1199-1206
36. Bonow RO. Assessment of myocardial viability. In: Sandler MP, Coleman RE, Wackers FJTh, Patton JA, Gottschalk A, Hoffer PB, eds. *Diagnostic Nuclear Medicine* 3rd Edition. Baltimore: Williams & Wilkins, 1995:543-554
37. Bonow RO. Comparison of SPECT and PET for assessment of tissue viability. In: Schwaiger M, ed. *Cardiac Positron Emission Tomography*. Norwell, MA: Kluwer Academic Publishers, 1995:201-225
38. Bonow RO. The hibernating myocardium: Identification of viable myocardium in patients with coronary artery disease and chronic left ventricular dysfunction. In Heusch G, Schulz R, eds. *New Paradigms of Coronary Artery Disease: Hibernation, Stunning, and Ischemic Preconditioning*. New York: Springer, 1996:50-52
39. Davidson CJ, Fishman RF, Bonow RO. Cardiac catheterization. In: Braunwald E, ed. *Heart Disease: A Textbook of Cardiovascular Medicine* 5th Edition. Philadelphia: W.B. Saunders Company, 1996:177-203
40. Gheorghiade M, Bonow RO. Coronary artery disease. In: Kelley WN, ed. *Textbook of Internal Medicine* 3rd Edition. Philadelphia: J.B. Lippincott Company, 1996:371-385
41. Bonow RO. Assessment of myocardial viability using thallium-201. In Nishimura T, ed. *Proceeding of the 21st New Town Conference*. Tokyo: Nihon Medi-Physics, 1996:39-48
42. Bonow RO. Assessment of myocardial viability with thallium-201. In: Zaret BL, Beller GA, eds. *Nuclear Cardiology: State of the Art and Future Directions*. St. Louis: C.V. Mosby Company, 1998:503-512
43. Bonow RO. Assessment of myocardial viability in hibernating myocardium. In: Murray IPC, Ell PJ, eds. *Nuclear Medicine in Clinical Diagnosis and Treatment* 2nd edition. Edinburgh: Churchill Livingstone, 1998:1453-1462
44. Bonow RO. Clinical value of combined assessment of perfusion and function for the evaluation of myocardial viability. In: Germano G, Berman DS, eds. *Clinical Gated Cardiac SPECT*. Armonk, NY: Futura Publishing Company, 1999:307-324
45. Rigolin VH, Bonow RO. Myocardial contractile reserve. In: Dilsizian V, ed. *Myocardial Ischemia and Viability*. Armonk, NY: Futura Publishing Company 1999:181-205
46. Bonow RO. Chronic aortic regurgitation. In: Alpert JS, Dalen JE, Rahimtoola S, eds. *Valvular Heart Disease*. 3rd edition. Philadelphia: Lippincott-Raven Publishers 1999:245-268
47. Bonow RO, Masters RG. Valve surgery for regurgitant lesions of the aortic or mitral valve in advanced left ventricular dysfunction. In: Masters RG, ed. *Surgical Options for the Treatment of Heart Failure*. Dordrecht: Kluwer Academic Publishers, 1999:33-48
48. Bonow RO. Timing of operation for asymptomatic severe aortic regurgitation. In: Braunwald E, Fauci AS, Isselbacher KJ, Kasper DL, Longo DL, Jameson JL, eds. *Harrison's Online*. 1999
49. Bonow RO. Nuclear cardiology techniques for the evaluation of myocardial viability. In: Asín Cardiel E, Fuertes García A, Jiménez Mena M, Catalán MP, eds. *Actualización en Cardiopatía Isquémica*. Madrid: Marco Gráfico, SL. 1999:51-61
49. Bonow RO. Clinical applications: myocardial viability. In: Pohost GM, O'Rourke RA, Shah PM, Berman DS, eds. *Imaging in Cardiovascular Disease*. Philadelphia: Lippincott-Williams & Wilkins, 2000:565-573
50. Gheorghiade M, Bonow RO. Coronary artery disease. In: Kelley WN, ed. *Textbook of Internal Medicine*. 4th Edition. Philadelphia: Lippincott-Raven Publishers, 2000:428-448
51. Taneja T, Gheorghiade M, Bonow RO. Heart failure in the new millennium: emerging concepts in its pathophysiology. In: Rengo F, Bonow RO, Gheorghiade G, eds. *Heart Failure in the Elderly: Implication for Rehabilitation*. Pavia: Maugeri Foundation Books, 2000:61-76.
52. Gheorghiade M, Bonow RO. Chronic heart failure: a manifestation of coronary artery disease. In: Rengo F, Bonow RO, Gheorghiade G, eds. *Heart Failure in the Elderly: Implication for Rehabilitation*. Pavia: Maugeri Foundation Books 2000:77-95.
53. Acanfora D, Gheorghiade M, Bonow RO, Trojano L, Furgi G, Picone C, Papa A, Ferrari AA, Rengo F. CHF Italian Study: the Italian study on congestive heart failure in the elderly. In: Rengo F, Bonow RO, Gheorghiade G, eds. *Heart Failure in the Elderly: Implication for Rehabilitation*. Pavia: Maugeri Foundation Books, 2000:171-188
54. Gheorghiade M, Cody R, Francis GS, McKenna WJ, Young JB, Bonow RO. Current medical therapy for advanced heart failure. In: Rengo F, Bonow RO, Gheorghiade G, eds. *Heart Failure in the Elderly: Implication for Rehabilitation*. Pavia: Maugeri Foundation Books, 2000:203-232
55. Acanfora D, Trojano L, Gheorghiade M, Bonow RO, Capuano N, Furgi G, Nicolino A, Picone C, Papa A, Rengo F. Exercise conditioning in elderly patients with heart failure. In: Rengo F, Bonow RO, Gheorghiade G, eds. *Heart Failure in the Elderly: Implication for Rehabilitation*. Pavia: Maugeri Foundation Books, 2000:265-278.
56. Davidson CJ, Bonow RO. Cardiac catheterization. In: Braunwald E, Zipes DP, Libby P, eds. *Heart Disease: A Textbook of Cardiovascular Medicine*. 6th Edition. Philadelphia: W.B. Saunders Company, 2001:359-386
57. Gersh BJ, Braunwald E, Bonow RO. Chronic coronary artery disease. In: Braunwald E, Zipes DP, Libby P, eds. *Heart Disease: A Textbook of Cardiovascular Medicine*. 6th Edition. Philadelphia: W.B. Saunders Company, 2001:1272-1352
58. Bonow RO. Hibernating myocardium: identification and management. In: Fedele F, ed. *Cardiologia e Pneumologia*. Rome: CEPI Srl. 2001:219-226
59. Bonow RO. Timing of operation for asymptomatic severe aortic regurgitation. In: Braunwald E, ed. *Harrison's Advances in Cardiology*. New York: McGraw-Hill, 2002:354-359
60. Gheorghiade M, Bonow RO. Coronary artery disease in heart failure. In: Rengo F, Bonow RO, Gheorghiade G, eds. *Heart Failure in the Elderly: The Evolution of Chronic Heart Failure*. Pavia: Maugeri Foundation Books, 2002:3-6
61. Bonow RO. Diabetes and left ventricular dysfunction. In: Rengo F, Bonow RO, Gheorghiade G, eds. *Heart Failure in the Elderly: The Evolution of Chronic Heart Failure*. Pavia: Maugeri Foundation Books, 2002:7-10
62. Bonow RO. Assessment of myocardial viability. In: Sandler MP, Coleman RE, Wackers FJTh, Patton JA, Gottschalk A,

- eds. *Diagnostic Nuclear Medicine* 4th Edition. Philadelphia: Lippincott Williams & Wilkins, 2003:319-332
63. Gheorghide M, Bonow RO. Heart failure as a consequence of atherosclerotic coronary artery disease. In: Mann DL, ed. *Heart Failure. A Companion to Braunwald's Heart Disease*. Philadelphia: Elsevier Science, 2003:351-362
 64. Sivaratnam DA, Bonow RO, Kalff V. Assessment of myocardial viability in dysfunctional myocardium. In: Ell PJ, Gambhir SS, eds. *Nuclear Medicine in Clinical Diagnosis and Treatment* 3rd edition. Edinburgh: Churchill Livingstone, 2004:1159-1170
 65. Emanuel LL, Bonow RO. Care of patients with end-stage heart disease. In: Zipes DP, Libby P, Bonow RO, Braunwald E, eds. *Heart Disease: A Textbook of Cardiovascular Medicine*. 7th Edition. Philadelphia: Elsevier Science, 2004:53-61
 66. Udelson JE, Dilsizian V, Bonow RO. Nuclear cardiology. In: Zipes DP, Libby P, Bonow RO, Braunwald E, eds. *Heart Disease: A Textbook of Cardiovascular Medicine*. 7th Edition. Philadelphia: Elsevier Science, 2004:287-331
 67. Davidson CJ, Bonow RO. Cardiac catheterization. In: Zipes DP, Libby P, Bonow RO, Braunwald E, eds. *Heart Disease: A Textbook of Cardiovascular Medicine*. 7th Edition. Philadelphia: Elsevier Science, 2004:395-422
 68. Bonow RO, Braunwald E. Valvular heart disease. In: Zipes DP, Libby P, Bonow RO, Braunwald E, eds. *Heart Disease: A Textbook of Cardiovascular Medicine*. 7th Edition. Philadelphia: Elsevier Science, 2004:1553-1621
 69. Holly TA, Bonow RO. Assessment of myocardial viability with thallium-201 and technetium-based agents. In: Zaret BL and Beller GA, eds. *Nuclear Cardiology: State of the Art and Future Directions*. 3rd edition. Philadelphia: Elsevier Science, 2004:503-518
 70. Hauser J, Bonow RO. Heart failure and palliative care. In: Emanuel LL, Librach SL, eds. *Palliative Care: Core Skills and Clinical Competencies*. Philadelphia: Saunders/Elsevier, 2007:340-354
 71. Udelson JE, Dilsizian V, Bonow RO. Nuclear cardiology. In: Libby P, Bonow RO, Mann DL, Zipes DP, eds. *Braunwald's Heart Disease: A Textbook of Cardiovascular Medicine*. 8th Edition. Philadelphia: Elsevier Science, 2007:345-388
 72. Davidson CJ, Bonow RO. Cardiac catheterization. In: Libby P, Bonow RO, Mann DL, Zipes DP, eds. *Braunwald's Heart Disease: A Textbook of Cardiovascular Medicine*. 8th Edition. Philadelphia: Elsevier Science, 2007:439-463
 73. Emanuel LL, Bonow RO. Care of patients with end-stage heart disease. In: Libby P, Bonow RO, Mann DL, Zipes DP, eds. *Braunwald's Heart Disease: A Textbook of Cardiovascular Medicine*. 8th Edition. Philadelphia: Elsevier Science, 2007:717-725
 74. Otto CM, Bonow RO. Valvular heart disease. In: Libby P, Bonow RO, Mann DL, Zipes DP, eds. *Braunwald's Heart Disease: A Textbook of Cardiovascular Medicine*. 8th Edition. Philadelphia: Elsevier Science, 2007:1625-1693
 75. Lee T, Bonow RO. Guidelines for valvular heart disease. In: Libby P, Bonow RO, Mann DL, Zipes DP, eds. *Braunwald's Heart Disease: A Textbook of Cardiovascular Medicine*. 8th Edition. Philadelphia: Elsevier Science, 2007:1693-1712
 76. Klein L, Bonow RO. Diabetes mellitus and diastolic heart failure. In: Klein AL, Garcia MJ, eds. *Diastology: Clinical Approach to Diastolic Heart Failure*. Philadelphia: Elsevier Science, 2008:333-342
 77. Bonow RO. Guidelines for the management of patients with valvular heart disease. In: Fuster V, ed. *The AHA Guideline and Scientific Statement Handbook*. Oxford: John Wiley & Sons, 2009:293-311
 78. Taylor AJ, Bonow RO. Can atherosclerosis imaging improve patient management? In: Di Carli MF, Kwong RY, eds. *Novel Techniques For Imaging the Heart*. Oxford: John Wiley & Sons, 2009:244-258
 79. Rigolin VH, Bonow RO. Valvular heart disease. In: Ferdinand KC, ed. *Educational Review Manual in Cardiovascular Disease*. New York: Castle Connolly Publishing, Ltd, 2009:577-617
 80. Picano E, Pibarot P, Lancellotti P, Monin JL, Bonow RO. The emerging role of exercise testing and stress echocardiography in valvular heart disease. In: Picano E, ed. *Stress Echocardiography*. Berlin: Springer Verlag, 2009:499-522
 81. Tornos P, Bonow RO. Aortic regurgitation. In: Otto CM, Bonow RO, eds. *Valvular Heart Disease. A Companion to Braunwald's Heart Disease*. Philadelphia: Elsevier Science, 2009:155-168
 82. O'Gara PT, Bonow RO, Otto CM. Prosthetic Heart Valves. In: Otto CM, Bonow RO, eds. *Valvular Heart Disease. A Companion to Braunwald's Heart Disease*. Philadelphia: Elsevier Science, 2009:383-398
 83. Rigolin VH, Bonow RO. Aortic regurgitation. In: Bashore T, Wang A, eds. *Valvular Heart Disease*. Totawa, NJ: Humana Press, 2009:187-206
 84. Maganti K, Rigolin VH, Bonow RO. Aortic regurgitation. In; Garcia MJ, ed. *Textbook of Non-Invasive Cardiovascular Imaging*. Baltimore: Lippincott, Williams & Wilkins, 2009:393-413
 85. Holly TA, Bonow RO. Assessment of myocardial viability with thallium-201 and technetium-based agents. In: Zaret BL, Beller GA, eds. *Nuclear Cardiology: State of the Art and Future Directions*. 4th edition. Philadelphia: Mosby Elsevier, 2010:594-607
 86. Flaherty JD, Bonow RO, Gheorghide M. Heart failure as a consequence of ischemic heart disease. In: Mann DL, ed. *Heart Failure. A Companion to Braunwald's Heart Disease*. 2nd edition. Philadelphia: Elsevier Science, 2010:355-371
 87. Bonow RO. Appropriate use criteria: echocardiography. In: Bonow RO, Mann DL, Zipes DP, Libby P, eds. *Braunwald's Heart Disease: A Textbook of Cardiovascular Medicine*. 9th Edition. Philadelphia: Elsevier Science, 2011:270-276
 88. Udelson JE, Dilsizian V, Bonow RO. Nuclear cardiology. In: Bonow RO, Mann DL, Zipes DP, Libby P, eds. *Braunwald's Heart Disease: A Textbook of Cardiovascular Medicine*. 9th Edition. Philadelphia: Elsevier Science, 2011:293-336
 89. Davidson CJ, Bonow RO. Cardiac catheterization. In: Bonow RO, Mann DL, Zipes DP, Libby P, eds. *Braunwald's Heart Disease: A Textbook of Cardiovascular Medicine*. 9th Edition. Philadelphia: Elsevier Science, 2011:383-405
 90. Emanuel LL, Bonow RO. Care of patients with end-stage heart disease. In: Bonow RO, Mann DL, Zipes DP, Libby P, eds. *Braunwald's Heart Disease: A Textbook of Cardiovascular Medicine*. 9th Edition. Philadelphia: Elsevier Science, 2011:644-652

91. Otto CM, Bonow RO. Valvular heart disease. In: Bonow RO, Mann DL, Zipes DP, Libby P, eds. *Braunwald's Heart Disease: A Textbook of Cardiovascular Medicine*. 9th Edition. Philadelphia: Elsevier Science, 2011:1468-1530
92. Bonow RO, Otto CM. Guidelines for valvular heart disease. In: Bonow RO, Mann DL, Zipes DP, Libby P, eds. *Braunwald's Heart Disease: A Textbook of Cardiovascular Medicine*. 9th Edition. Philadelphia: Elsevier Science, 2011:1530-1539
93. Bonow RO. Guidelines for infective endocarditis. In: Bonow RO, Mann DL, Zipes DP, Libby P, eds. *Braunwald's Heart Disease: A Textbook of Cardiovascular Medicine*. 9th Edition. Philadelphia: Elsevier Science, 2011:1558-1560
94. Bonow RO. Practice guidelines: indications for valve surgery. In: Franco KL, Thourani VH, eds. *Cardiothoracic Surgery Review*. Philadelphia: Lippincott Williams & Wilkins 2012:203-207.
95. Hauser JM, Bonow RO. Heart failure and palliative care. In: Semigran MJ, Shin JT, eds. *Heart Failure*. London: Informa Healthcare (in press)

Forewords

1. Bonow RO. Foreword. In: Jessup M, Loh E, eds. *Heart Failure: A Clinician's Guide to Ambulatory Diagnosis and Treatment*. Totowa, NJ: Humana Press 2003:v-vi
2. Califf RM, Bonow RO. Foreword: Acute heart failure: a text that is better late than never. In: O'Connor CM, Gattis WA, Gheorghide M, Adams KF, eds. *Managing Acute Decompensated Heart Failure*. New York: Taylor and Francis Group, 2005:xix-xx
3. Bonow RO. Foreword. In: Dilsizian V, Pohost GM, eds. *Cardiac CT, PET and MR*. Oxford: Blackwell Publishing Ltd, 2006:ix
4. Braunwald E, Zipes DP, Libby P, Bonow RO. Foreword. In: Black HR, Elliott WJ, eds. *Hypertension. A Companion to Braunwald's Heart Disease*. Philadelphia: Elsevier Science 2007:xiii
5. Braunwald E, Libby P, Bonow RO, Zipes DP. Foreword. In: Antman EM, ed. *Cardiovascular Therapeutics. A Companion to Braunwald's Heart Disease*. 3rd edition. Philadelphia: Elsevier Science 2007:xiii
6. Bonow RO. Foreword. In: Hutchinson S. *Pericardial Diseases: Clinical Diagnostic Imaging Atlas*. Philadelphia: Saunders/Elsevier, 2009:vii
7. Bonow RO. Foreword. In: Taylor AJ, ed. *Cardiovascular Computed Tomography: A Companion to Braunwald's Heart Disease*. Philadelphia: Elsevier Science, 2009:xiii-xiv
8. Bonow RO. Foreword. In: Hundley WG, Kramer CM, eds. *Cardiovascular Magnetic Resonance: A Companion to Braunwald's Heart Disease*. Philadelphia: Elsevier Science, 2009:ix-xi
9. Braunwald E, Libby P, Bonow RO, Mann DL. Foreword. In: Issa ZF, Miller JM, Zipes DP, eds. *Clinical Arrhythmology and Electrophysiology. A Companion to Braunwald's Heart Disease*. Philadelphia: Elsevier Science 2009:vii
10. Libby P, Bonow RO, Mann DL, Zipes DP, Braunwald E. Foreword. In: Ballantyne CM, ed. *Clinical Lipidology. A Companion to Braunwald's Heart Disease*. 2nd edition. Philadelphia: Elsevier Science 2009:xix
11. Braunwald E, Bonow RO, Libby P, Zipes DP. Foreword. In: Mann DL, ed. *Heart Failure. A Companion to Braunwald's Heart Disease*. 2nd edition. Philadelphia: Elsevier Science 2010:xi
12. Bonow RO. Foreword. In: Dilsizian V, Pohost GM, eds. *Cardiac CT, PET and MR*. Oxford: Blackwell Publishing Ltd 2010:ix
13. Braunwald E, Bonow RO, Libby P, Mann DL, Zipes DP. Foreword. In: Theroux P, ed. *Acute Coronary Syndromes. A Companion to Braunwald's Heart Disease*. Philadelphia: Elsevier Science 2011:ix
14. Braunwald E, Bonow RO, Mann DL, Zipes DP, Libby P. Foreword. In: Blumenthal RS, Foody JM, Wong ND, eds. *Preventive Cardiology. A Companion to Braunwald's Heart Disease*. Philadelphia: Elsevier Science 2011:xiii
15. Bonow RO, Mann DL, Zipes DP, Libby P, Braunwald E. Foreword. In: Iskandrian AE, Garcia EV, eds. *Atlas of Nuclear Cardiology: Imaging Companion to Braunwald's Heart Disease*. Philadelphia: Elsevier Science 2011:ix-x
16. Braunwald E, Bonow RO, Libby P, Mann DL, Zipes DP. Foreword. In: Black HR, Elliott WJ, eds. *Hypertension. A Companion to Braunwald's Heart Disease*. 2nd edition. Philadelphia: Elsevier Science 2012:xiii

National Subspecialty Meetings, Regional Conferences and Symposia

1. New Techniques and Concepts in Cardiology, American College of Cardiology, Washington, DC, Nov 2-4, 1978
2. NHLBI Board of Scientific Counselors, Bethesda, MD, Apr 25-26, 1979
3. New Techniques and Concepts in Cardiology, American College of Cardiology, Washington, DC, Oct 25-26, 1979
4. Medical Faculty of the State of Maryland semiannual meeting, Ocean City, MD, Sept 25-26, 1980
5. New Techniques and Concepts in Cardiology, American College of Cardiology, Washington, DC, Oct 23-25, 1980
6. Nuclear Cardiology: Methods and Applications, The Johns Hopkins Medical Institutions, Baltimore, MD, Feb 12-14, 1981
7. Workshop on Aspects of Nifedipine and the Principle of Calcium Antagonists, Lake Tahoe, CA, Mar 13-14, 1981
8. Current Concepts and Practice of Exercise and Cardiac Rehabilitation, State University of New York at Buffalo and American Heart Association, Western New York Chapter, Buffalo, NY, June 5, 1981
9. Current Clinical Cardiology, United Hospitals of St. Paul and American Heart Association, Minnesota Affiliate, St. Paul, MN, Sept 17-19, 1981
10. New Techniques and Concepts in Cardiology, American College of Cardiology, Washington, DC, Oct 29-31, 1981
11. New Techniques and Concepts in Cardiology, American College of Cardiology, Washington, DC, Oct 21-23, 1982
12. NHLBI Board of Scientific Counselors, Bethesda, MD, Nov 10-11, 1982
13. 4th Midwinter Cardiovascular Symposium, West Virginia University Medical Center and American Heart Association, West Virginia Affiliate, Snowshoe, WV, Jan 24-28, 1983
14. Coronary Artery Disease: New Aspects, Diagnosis and Treatment, The Northern Virginia Consortium for Continuing Medical Education, Arlington, VA, Feb 2, 1983
15. New Perspectives in Cardiac Imaging, University of Michigan and American Heart Association of Michigan, Dearborn, MI, Sept 29-Oct 1, 1983
16. Nuclear Cardiology: Principles and Applications, University of Wisconsin and American Heart Association, Wisconsin Affiliate, Milwaukee, WI, Oct 12-15, 1983
17. New Techniques and Concepts in Cardiology, American College of Cardiology, Washington, DC, Oct 20-22, 1983
18. Calcium Channel Blockers: Present Status and Future Directions, University of Florida, Carlsbad, CA, Nov 17-20, 1983
19. Annual Session of the Association of Army Cardiology, Walter Reed Army Medical Center, Washington, DC, Apr 18, 1984
20. Nuclear Cardiology: Principles and Applications, University of Wisconsin and American Heart Association, Wisconsin Affiliate, Milwaukee, WI, Sept 19-21, 1984
21. Advanced Nuclear Cardiology and Advanced Imaging Techniques, Yale University School of Medicine and American College of Cardiology, New Haven, CT, Oct 11-13, 1984
22. New Techniques and Concepts in Cardiology, American College of Cardiology, Washington, DC, Oct 25-27, 1984
23. Cardiology Update 1984, University of Virginia Affiliated Hospitals, Roanoke, VA, Dec 14, 1984
24. Immediate Issues in Cardiology, Medical College of Virginia, Hot Springs, VA, July 19-21, 1985
25. Cardiomyopathy: An Update for the 80's, Loyola University Medical Center and American College of Cardiology, Chicago, IL, Sept 12-14, 1985
26. 10th Annual Nuclear Cardiology Symposium, University of Wisconsin and American Heart Association, Wisconsin Affiliate, Milwaukee, WI, Sept 18-20, 1985
27. New Techniques and Concepts in Cardiology, American College of Cardiology, Washington, DC, Oct 24-26, 1985
28. Cardiology Update 1986, Texas Tech University Health Sciences Center and American Heart Association, El Paso Division, El Paso, TX, Feb 14-15, 1986
29. 4th Annual Cardiac Symposium, Denver Heart Institute, Keystone, CO, Mar 8-9, 1986
30. Consultant's Course in Cardiology, Mount Sinai Medical Center and American College of Cardiology, New York, NY, May 12-16, 1986
31. NHLBI Board of Scientific Counselors, Bethesda, MD, May 15-16, 1986
32. Conference on Cardiovascular Diseases, Armed Forces Institutes of Pathology and American Registry of Pathology, Bethesda, MD, June 4-6, 1986
33. New Developments in Cardiovascular Medicine and Surgery, Smith Clinic, Columbus, OH, June 7, 1986
34. Symposium on the Physiology of Diastole in Health and Disease, Beth Israel Hospital and Harvard Medical School, Boston, MA, Sept 11-14, 1986
35. 11th Annual Nuclear Medicine Symposium, University of Wisconsin and American Heart Association, Wisconsin Affiliate, Milwaukee, WI, Sept 25-26, 1986
36. New Techniques and Concepts in Cardiology, American College of Cardiology, Washington, DC, Oct 30-Nov 1, 1986
37. Medical Officer's Course in Nuclear Medicine and Radioisotope Techniques, National Naval Medical Center, Bethesda, MD, Nov 7, 1986
38. Insights in Cardiology, Mather Memorial Hospital, Port Jefferson, NY, Nov 11, 1986
39. 6th Echo-Doppler Symposium, University of Kentucky, Dallas, TX, Nov 14-16, 1986
40. Coronary, Hypertensive, Valvular, and Myocardial Heart Diseases: The Multidisciplinary Approach, American College of Cardiology, Williamsburg, VA, Nov 30-Dec 3, 1986
41. Advances in Cardiology, St. Joseph's Hospital, Flint, MI, Mar 18, 1987
42. Clinical Nuclear Cardiology: Case Review with the Experts, American College of Cardiology, Bethesda, MD, Apr 30-May 2, 1987
43. Nuclear Cardiology: Evaluation of Patients with Ischemic Heart Disease, American Heart Association, New York City Chapter, New York, NY, June 15, 1987
44. 12th Annual Nuclear Cardiology Symposium, University of Wisconsin and American Heart Association, Wisconsin Affiliate, Milwaukee, WI, Sept 21-22, 1987

45. Annual Scientific Symposium, American Heart Association, Vermont Affiliate, Stowe, VT, Sept 30,1987
46. New Techniques and Concepts in Cardiology, American College of Cardiology, Washington, DC, Oct 22-24,1987
47. Echocardiography/Doppler in Clinical Decision Making, American College of Cardiology, Bethesda, MD, Dec 14-16,1987
48. Clinical Nuclear Cardiology: Case Review with the Experts, Cedars-Sinai Medical Center and American College of Cardiology, Los Angeles, CA, Jan 28-30, 1988
49. Valvular Heart Disease: Innovations in Detection, Treatment, and Recovery, American Heart Association, Maine Affiliate, Rockport, ME, Feb 6-7,1988
50. Clinical Strategies in Complex Valvular Heart Disease, University of California at San Diego, San Diego, CA, Feb 11-13,1988
51. Coronary Artery Disease Conference, Mount Sinai Medical Center, San Juan, Puerto Rico, Feb 12-14,1988
52. Ischemic Heart Disease: Early Detection and Intervention, American Heart Association, New York City Chapter, New York, NY, Feb 21,1988
53. Cardiology '88, American Heart Association, Northeastern Ohio Area, Canton, OH, Mar 18,1988
54. Symposium on Cardiovascular Diseases, American Heart Association, Greater Louisville Division, Louisville, KY, Apr 7-8,1988
55. The Heart of Cardiology is Noninvasive, University of Wisconsin School of Medicine, Milwaukee, WI, Apr 14,1988
56. Clinical Nuclear Cardiology: Case Review with the Experts, American College of Cardiology, Bethesda, MD, May 1-3,1988
57. Seaboard Medical Association 93rd Annual Session, Kill Devil Hills, NC, June 16-19,1988
58. 13th Annual Nuclear Cardiology Symposium and Workshop, University of Wisconsin and American Heart Association, Wisconsin Affiliate, Milwaukee, WI, Sept 14-16,1988
59. New Techniques and Concepts in Cardiology, American College of Cardiology, Washington, DC, Oct 22-24,1988
60. Present Concepts in Internal Medicine, American College of Physicians, San Francisco, CA, Oct 20-23,1988
61. Cardiovascular Disease Symposium, Downstate Medical Center, Brooklyn, NY, Nov 30,1988
62. Clinical Nuclear Cardiology: Case Review with the Experts, Cedars-Sinai Medical Center and American College of Cardiology, Los Angeles, CA, Jan 26-28, 1989
63. Cardiovascular, Diagnostic and Therapeutic Frontiers in the 90's, The Alton Ochsner Medical Foundation and American College of Cardiology, New Orleans, LA, Feb 2-4,1989
64. Cardiology Update, American Heart Association Region 5, Raleigh, NC, Feb 11, 1989
65. Cardiology '89: Prevention and Intervention, American Heart Association, Nassau Chapter, Nassau, NY, Apr 12, 1989
66. Clinical Nuclear Cardiology: Case Review with the Experts, American College of Cardiology, Bethesda, MD, May 4-6,1989
67. Cardiology Spring Meeting, Division of Cardiology, University of North Carolina, Chapel Hill, NC, May 19-20,1989
68. 14th Annual Nuclear Cardiology Symposium, University of Wisconsin School of Medicine, Milwaukee, WI, Sept 20-22,1989
69. NHLBI Board of Scientific Counselors, Bethesda, MD, Oct 2,1989
70. New Techniques and Concepts in Cardiology, American College of Cardiology, Washington, DC, Oct 26-28,1989
71. Lewen R. Nelson Cardiovascular Conference, Methodist Medical Center Foundation, Peoria, IL, Nov 2, 1989
72. Acute Ischemic Syndromes, Fair Oaks Hospital, Fairfax, VA, Nov 11,1989
73. Left Ventricular Diastolic Dysfunction, Northeastern Ohio Universities College of Medicine, Rootstown, OH, Nov 17,1989
74. The Role of Echocardiography/Doppler in Clinical Decision Making, American College of Cardiology, Bethesda, MD, Dec 6-8,1989
75. Clinical Nuclear Cardiology: Case Review with the Experts, Cedars-Sinai Medical Center and American College of Cardiology, Los Angeles, CA, Jan 25-27,1990
76. Calcium and the Cardiovascular System, The New York Cardiological Society, New York, NY, Feb 1,1990
77. Clinical Nuclear Cardiology: Case Review with the Experts, American College of Cardiology, Bethesda, MD, Apr 5-7,1990
78. 38th Annual Scientific Assembly, American Academy of Family Physicians, Charleston, WV, Apr 8,1990
79. Cardiology Update 1990, American Heart Association, Nassau-Suffolk Region, East Meadow, NY, Apr 18,1990
80. New Developments in Single Photon Emission Computed Tomography, Clinical Staff Conference, National Institutes of Health, Bethesda, MD, Apr 25,1990
81. Cardiology Update, Mount Sinai Medical Center, Miami, FL, Apr 28,1990
82. Cardiology Update, Philadelphia Heart Institute, Presbyterian Medical Center, Philadelphia, PA, May 2,1990
83. Current Trends in Cardiology, Episcopal Hospital, Philadelphia, PA, May 5,1990
84. Cardiology Update - 1990, Marshall University School of Medicine, Huntington, WV, Oct 6,1990
85. 15th Annual Nuclear Cardiology Symposium, University of Wisconsin School of Medicine, Milwaukee, WI, Oct 10-12,1990
86. New Techniques and Concepts in Cardiology, American College of Cardiology, Washington, DC, Oct 25-27,1990
87. Coronary Artery Disease: Diagnosis and Intervention in the 90's, Temple University School of Medicine, Palm Desert, CA, Nov 30,1990
88. 4th Annual Nuclear Cardiology Update - 1990, Albert Einstein College of Medicine, New York, NY, Dec 2,1990
89. The Role of Echocardiography/Doppler in Clinical Decision Making, American College of Cardiology, Bethesda, MD, Dec 5-7,1990
90. The Heart - 1990, Mid America Heart Institute, Kansas City, MO, Dec 6-8,1990
91. Clinical Nuclear Cardiology: Case Review with the Experts, Cedars-Sinai Medical Center and American College of Cardiology, Los Angeles, CA, Jan 31-Feb 2,1991

92. Recent Diagnostic and Therapeutic Advances in Cardiovascular Disease, University of Virginia Health Sciences Center, Atlanta, GA, Mar 7,1991
93. The High Country Nuclear Medicine Conference, Society of Nuclear Medicine, Vail, CO, Mar 18-22,1991
94. Clinical Nuclear Cardiology: Case Review with the Experts, American College of Cardiology, Bethesda, MD, Apr 11-13,1991
95. Mideastern Chapter Society of Nuclear Medicine Annual Meeting, Rockville, MD, Apr 12-14, 1991
96. Evaluation and Management of Valvular Insufficiency: New Approaches for the 90's, University of Michigan, Ann Arbor, MI, Apr 26-27,1991
97. UCSF Cardiology Update-Part II, University of California Medical Center, San Francisco, CA, May 4,1991
98. Cardiovascular Disease 1991, Rush-Presbyterian Medical Center, Chicago, IL, May 16, 1991
99. American Society of Echocardiography Second Annual Meeting, Arlington, VA, June 12-14,1991
100. International Nuclear Cardiology Workshop, University of Virginia, Wintergreen, VA, July 14-17,1991
101. 5th Annual Meeting, Florida Chapter, American College of Cardiology, Orlando Florida, Sept 6-8,1991
102. Nuclear Cardiology: Advances in Interpretation and Methods, University of Toronto, Toronto, Ontario, Sept 27,1991
103. Cardiac Ultrasound: 1991 Update, Washington Hospital Center, Bethesda, MD, Sept 30-Oct 2,1991
104. Cardiology '91, American Heart Association, Upstate New York Region, Syracuse, NY, Oct 3,1991
105. Northeast Regional Meeting Society of Nuclear Medicine, Boston, MA, Oct 4-6,1991
106. 16th Annual Nuclear Cardiology Symposium, University of Wisconsin School of Medicine, Milwaukee, WI, Oct 9-11,1991
107. 32nd Annual Meeting, Southeastern Chapter Society of Nuclear Medicine, Miami Beach, FL, Oct 11-13,1991
108. 35th Annual Meeting, Pittsburgh Chapter Society of Nuclear Medicine, Pittsburgh, PA, Oct 12-13,1991
109. New Techniques and Concepts in Cardiology, American College of Cardiology, Washington, DC, Oct 24-26,1991
110. Nuclear Cardiology: A Case Study Approach, American College of Cardiology, Bethesda, MD, Oct 24-26,1991
111. Cardiac Imaging for Diagnosis and Risk Assessment, Philadelphia Heart Institute, Nov 10,1991
112. Fifth Annual Nuclear Cardiology Update: 1991, New York Cardiac Diagnostic Center, New York, NY, Dec 8,1991
113. The Role of Echocardiography/Doppler in Clinical Decision Making, American College of Cardiology, Bethesda, MD, Dec 9-11,1991
114. Williamsburg Conference on Heart Disease, American College of Cardiology, Williamsburg, VA, Dec 9-11,1991
115. Clinical Nuclear Cardiology: Case Review with the Experts, Cedars-Sinai Medical Center and American College of Cardiology, Los Angeles, CA, Jan 23-25,1992
116. 42nd Annual Scientific Session, American Heart Association, Maine Affiliate, Rockland, ME, Feb 1-2,1992
117. Cardiovascular Conference at Snowshoe, American College of Cardiology, Snowshoe, WV, Feb 3-5,1992
118. Cardiovascular Imaging Symposium II, University of Miami, Lake Buena Vista, FL, Feb 13-16,1992
119. Noninvasive Cardiology, University of Rochester, Rochester, NY, Apr 2-3,1992
120. Left Ventricular Dysfunction: Causes & Consequences, Medical College of Virginia, Dallas, TX, Apr 11,1992
121. Cardiovascular Disease 1992, Rush-Presbyterian Medical Center, Chicago, IL, May 7-9, 1992
122. Evaluation and management of valvular heart disease, University of Michigan Medical School, Ann Arbor, MI, May 14-15,1992
123. 1992 Cardiovascular Research Forum, American Heart Association of Metropolitan Chicago, Chicago, IL, May 19,1992
124. Recent Advances in Clinical Nuclear Cardiology, American College of Cardiology, Bethesda, MD, May 21-23,1992
125. New England Cardiovascular Society Annual Scientific Sessions, Framingham, MA, June 4,1992
126. Quantitative Thallium and Technetium Myocardial SPECT, Emory University, Atlanta, GA Sept 9-10,1992
127. Interventions in the Treatment of Heart Disease, New York Cardiological Society and New York Chapter, American College of Cardiology, New York, NY, Sept 24-26,1992
128. Cardiac SPECT Symposium, St. Lukes-Roosevelt Medical Center, Nantucket, MA, Oct 8-11,1992
129. Echo Chicago '92, Northwestern University Medical School, Chicago, IL, Oct 12-16,1992
130. 17th Annual Nuclear Cardiology Symposium, University of Wisconsin School of Medicine, Milwaukee, WI, Oct 14-16,1992
131. New Techniques and Concepts in Cardiology, American College of Cardiology, Washington, DC, Oct 22-24,1992
132. Advances in the Evaluation and Management of Acute and Chronic Coronary Artery Disease, University of Massachusetts, New Orleans, LA, Nov 15,1992
133. Diastology, The Cleveland Clinic Foundation, Cleveland, OH, Dec 7-9,1992
134. The Role of Echocardiography/Doppler in Clinical Decision Making - VI, American College of Cardiology, Bethesda, MD, Dec 14-16,1992
135. 30th Annual Year in Internal Medicine, Northwestern University Medical School, Chicago, IL, Jan 20-22,1993
136. Clinical Nuclear Cardiology: Case Review with the Experts, Cedars-Sinai Medical Center and American College of Cardiology, Los Angeles, CA, Jan 21-23,1993
137. The Biology of Diastole in Health and Disease, Beth Israel Hospital and Harvard Medical School, Palm Beach, FL, Jan 29-31,1993
138. 15th Annual Tutorial in Cardiology, University of Vermont, Sugarbush, VT, Feb 22-26,1993
139. Cardiac Imaging in Coronary Artery Disease: Clinical Implications for Diagnosis, Prognosis, and Viability, Northwestern University Medical School, Anaheim, CA, Mar 13,1993 (Program Director)
140. Cardiovascular Nuclear Medicine, Central Chapter, Society of Nuclear Medicine, Chicago, IL, Mar 26-28,1993
141. Agenda for Cardiology 2000: The Vision, Northeastern Illinois University, Chicago, IL, Apr 17,1993
142. Recent Advances in Clinical Nuclear Cardiology, American College of Cardiology, Bethesda, MD, Apr 22-24,1993

143. Cardiology 1993, University of Pittsburgh Medical Center, Pittsburgh, PA, May 15,1993
144. Frontiers in Coronary Artery Disease, Northwestern University Medical School, Chicago, IL, June 17-19,1993 (Program Director)
145. 22nd Annual Santa Fe Cardiology Symposium, Santa Fe, NM, Aug 6-7,1993
146. Cardiovascular Board Review, American College of Cardiology and Krannert Institute of Cardiology, Indianapolis, IN, Sept 8-12,1993
147. Specialty Review in Cardiovascular Disease, Center for Advanced Medical Education, Chicago, IL, Sept 21-25,1993
148. Philadelphia Board Review Course in Cardiovascular Diseases, Philadelphia Heart Institute/Graduate Hospital and American Heart Association, Philadelphia, PA, Sept 27-Oct 1,1993
149. Nuclear Cardiology: Advances in Interpretation and Methods, University of Toronto, Toronto, Ontario, Oct 1,1993
150. 18th Annual Nuclear Cardiology Symposium and Workshop, University of Wisconsin School of Medicine, Milwaukee, WI, Oct 6-8,1993
151. Brigham Cardiac Valve Symposium, Brigham and Women's Hospital and Harvard Medical School, Boston, MA, Oct 14-16,1993
152. Cardiac SPECT Symposium, St. Luke's-Roosevelt Hospital Center, Nantucket, MA, Oct 14-17,1993
153. Echo Chicago '93, Northwestern University Medical School, Chicago, IL, Oct 18-22,1993
154. New Techniques and Concepts in Cardiology, American College of Cardiology, Washington, DC, Oct 21-23,1993
155. 18th Annual Western Regional Meeting, Society of Nuclear Medicine, Vancouver, BC, Oct 28-31,1993
156. 1993 Technology Evaluation Conference, Blue Cross and Blue Shield Association, Chicago, IL, Nov 3-5,1993
157. State-of-the-Art Lecture, 66th Annual Meeting, Central Society for Clinical Research, Chicago, IL, Nov 5,1993
158. The Role of Echocardiography/Doppler in Clinical Decision Making, American College of Cardiology, Bethesda, MD, Jan 10-12,1994
159. Specialty Review in Thoracic Surgery, Center for Advanced Medical Education, Chicago, IL, Jan 10-14,1994
160. Clinical Nuclear Cardiology: Case Review with the Experts, Cedars-Sinai Medical Center and American College of Cardiology, Los Angeles, CA, Jan 21-23,1994
161. 31st Annual Year in Internal Medicine, Northwestern University Medical School, Chicago, IL, Jan 20-22,1994
162. 46th Annual Midwinter Conference, Los Angeles Radiological Society, Los Angeles, CA, Jan 28-30,1994
163. 50th Annual Midwest Clinical Conference, Chicago Medical Society, Chicago, IL, Feb 11-13,1994
164. 4th Annual Meeting, Puerto Rico Chapter, American College of Cardiology, San Juan, PR, Feb 10-13,1994
165. 10th Annual Cardiovascular Conference at Lake Louise, American College of Cardiology, Lake Louise, Alberta, Canada, Feb 28-Mar 3,1994
166. Current Issues in Nuclear Cardiology, American Society of Nuclear Cardiology, Atlanta, GA, Mar 12,1994
167. Cardiology Fiesta in San Antonio: Update on Cardiac Diagnostic and Therapeutic Techniques, American College of Cardiology and University of Texas Health Sciences Center, San Antonio, TX, Apr 21-23,1994
168. 24th Annual Meeting, Mid-Eastern Chapter, Society of Nuclear Medicine, Rockville, MD, Apr 21-23,1994
169. Recent Advances in Clinical Nuclear Cardiology Featuring Case Review with the Experts, American College of Cardiology, Bethesda, MD, Apr 28-30,1994
170. Diastology: Basic, Diagnostic, and Therapeutic Aspects of Diastolic Function, Cleveland Clinic Foundation, Cleveland, OH, May 23-25,1994
171. Advanced Treatment Options for the Failing Left Ventricle, Yale University School of Medicine, New Haven, CT, June 10-11,1994
172. Nuclear Cardiology Retreat at Wintergreen, American Society of Nuclear Cardiology, Wintergreen, VA, Jul 10-13,1994
173. New England Nuclear Cardiology Working Group, Hartford, CT, Sep 19,1994
174. Computers in Cardiology, Bethesda, MD, Sep 25-28,1994
175. Advances in the Diagnosis and Management of Heart Disease, 62nd Annual Fall Symposium, American Heart Association Greater Los Angeles Affiliate, Los Angeles, CA, Oct 1,1994
176. Lincoln Cardiovascular Conference, Nebraska Heart Institute, Lincoln, NE, Oct 6-7,1994
177. 6th Annual Conference, Michigan Chapter, American College of Cardiology, Traverse City, MI, Oct 7-9,1994
178. 19th Annual Nuclear Cardiology Symposium and Workshop, University of Wisconsin School of Medicine, Milwaukee, WI, Oct 19-21,1994
179. Echo Chicago 94, Northwestern University Medical School, Chicago IL, Oct 23-26,1994
180. 3rd Annual Cardiac SPECT Symposium, St Lukes-Roosevelt Medical Center, Newport, RI, Oct 27-30,1994
181. Radiological Society of North America, 80th Scientific Assembly, Chicago, IL, Nov 27-Dec 2,1994
182. 27th Annual New York Cardiovascular Symposium, American College of Cardiology, New York, NY, Dec 2-4,1994
183. Heart Failure Update, American Heart Association of Metropolitan Chicago, Chicago, IL, Dec 10,1994 (Program Co-Director)
184. Specialty Review in Thoracic Surgery, Center for Advanced Medical Education, Chicago, IL, Jan 9-13,1995
185. Cardiology Challenges '95, Palm Beach, FL, Jan 14-17,1995
186. Clinical Nuclear Cardiology: Case Review with the Experts, Cedars-Sinai Medical Center and American College of Cardiology, Los Angeles, CA, Jan 20-22,1995
187. The Role of Echocardiography/Doppler in Clinical Decision Making, American College of Cardiology, Bethesda, MD, Jan 23-25,1995
188. 32nd Annual Year in Internal Medicine, Northwestern University Medical School, Chicago, IL, Jan 25-27,1995
189. Harnessing Prognostic Power Into Effective Clinical Decision Making, American Society of Nuclear Cardiology, New Orleans, LA, Mar 18,1995
190. Cardiology Fiesta in San Antonio: Update on Cardiac Diagnostic and Therapeutic Techniques, American College

- of Cardiology and University of Texas Health Sciences Center, San Antonio, TX, Apr 27-29,1995
191. Recent Advances in Clinical Nuclear Cardiology Featuring Case Review with the Experts, American College of Cardiology, Bethesda, MD, May 4-6, 1995
 192. Frontiers in Coronary Artery Disease, Northwestern University Medical School, Chicago, IL, June 9-10,1995 (Program Director)
 193. Advances in Radiotracers and Imaging of the Heart, American Society of Nuclear Cardiology, Minneapolis, MN, June 14,1995
 194. 18th Annual Western Regional Meeting, Society of Nuclear Medicine, Phoenix, AZ, Sep 22-24,1995
 195. Current Problems in Cardiology: Diagnostic and Therapeutic Challenges 1995, Deborah Heart and Lung Center, Browns Mills, NJ, Oct 7,1995
 196. Management of Patients with End-Stage Heart Failure, Northwestern University and Duke University, Orlando, FL, Oct 20-21,1995 (Workshop Co-Director)
 197. Echo Northwestern 1995, Northwestern University, Chicago, IL, Oct 22-26,1995
 198. 4th Annual Cardiac SPECT Symposium, St.Luke's-Roosevelt Medical Center, Newport, RI, Oct 26-29,1995
 199. Diastolic Performance: Role of the Renin-Angiotensin System, Anaheim, CA, Nov 11,1995
 200. 11th International Workshop on Thrombolysis and Interventional Therapy in Acute Myocardial Infarction, George Washington University Medical Center, Anaheim, CA, Nov 12,1995
 201. Radiological Society of North America, 81st Scientific Assembly, Chicago, IL, Nov 26-Dec 1,1995
 202. 28th Annual New York Cardiovascular Symposium, American College of Cardiology, New York, NY, Dec 1-3,1995
 203. 23rd Annual Williamsburg Conference on Heart Disease, American College of Cardiology, Williamsburg, VA, Dec 3-6,1995
 204. Cardiac Accents, Georgetown University Medical Center Palm Beach, FL, Jan 15-18,1996
 205. Clinical Nuclear Cardiology: Case Review with the Experts, Cedars-Sinai Medical Center and American College of Cardiology, Los Angeles, CA, Jan 26-28,1996
 206. 23rd Annual Cardiovascular Conference at Snowbird, American College of Cardiology, Snowbird, UT, Feb 7-10,1996
 207. Academic Manpower Roundtable, Illinois Chapter, American College of Cardiology, Chicago, IL, Feb 28,1996
 208. Nuclear Cardiology and Managed Care: From Challenge to Opportunity, American Society of Nuclear Cardiology, Orlando, FL, Mar 23,1996
 209. Cardiovascular Symposium with the Experts, Georgetown University Medical Center, Washington, DC, Apr 12-13,1996
 210. Cardiology Fiesta in San Antonio: Update on Cardiac Diagnostic and Therapeutic Techniques, American College of Cardiology, San Antonio, TX, Apr 25-27,1996
 211. Myocardial Viability: From Cellular Physiology to Clinical Decision Making, Washington DC, Apr 26-28,1996
 212. Great Lakes Nuclear Cardiology Symposium, Northwestern University Medical School, Chicago, IL, May 3-4,1996
 213. Recent Advances in Clinical Nuclear Cardiology Featuring Case Review with the Experts, American College of Cardiology, Bethesda, MD, May 9-11,1996
 214. The Heart of Cardiology is Echocardiography, University of Wisconsin, Milwaukee, WI, May 14-15,1996
 215. Clinical Relevance and Economic Value of Nuclear Cardiology in a Changing Environment, Denver, CO, June 2,1996
 216. Matters of the Heart: Symposium on Nuclear Cardiology, American Society of Nuclear Cardiology, Denver, CO, June 5,1996
 217. Frontiers in Cardiology, Northwestern University Medical School, Chicago, IL, June 7-8,1996 (Program Director)
 218. Tutorial in Nuclear Cardiology, American Society of Nuclear Cardiology, Washington, DC, Sep 7-9,1996
 219. 7th Annual Meeting, New Jersey Chapter, American College of Cardiology, Princeton, NJ, Sept 21, 1996
 220. 21st Annual Nuclear Cardiology Symposium and Workshop, University of Wisconsin School of Medicine, Milwaukee, WI, Oct 2-4,1996
 221. Current Problems in Cardiology: Diagnostic and Therapeutic Challenges 1996, Deborah Heart and Lung Center, Browns Mills, NJ, Oct 5,1996
 222. 5th Annual Cardiac SPECT Symposium, St-Luke's-Roosevelt Medical Center, Newport, RI, Oct 10-13,1996
 223. Cardiology '96, American Heart Association, Upstate New York Region, Syracuse, NY, Oct 16,1996
 224. Echo Northwestern 1996, Northwestern University, Chicago, IL, Oct 20-23,1996
 225. 10th Annual Clinical Cardiology Symposium, Dakota Heart Institute, Fargo, ND, Oct 25-26,1996
 226. 5th Annual Meeting, Minnesota Chapter, American College of Cardiology, Bloomington, MN, Oct 26,1996
 227. 2nd Triennial Brigham Cardiac Valve Symposium, Harvard Medical School, Boston, MA, Oct 31-Nov 1,1996
 228. Clinical Decision Matrix of Cost-Effective Cardiovascular Care, American Society of Nuclear Cardiology, New Orleans, LA, Nov 10,1996
 229. Radiological Society of North America, 82nd Scientific Assembly, Chicago, IL, Dec 1-6,1996
 230. 6th Annual Meeting, Illinois Chapter, American College of Cardiology, Chicago, IL, Dec 6-7,1996
 231. 29th Annual New York Cardiovascular Symposium, American College of Cardiology, New York, NY, Dec 13-15,1996
 232. 34th Annual Year in Internal Medicine, Northwestern University Medical School, Chicago, IL, Jan 22-24,1997
 233. Clinical Nuclear Cardiology: Case Review with the Experts, Cedars-Sinai Medical Center and American College of Cardiology, Los Angeles, CA, Jan 24-26,1997
 234. Cardiac Accents, University of Miami Medical School, Naples, FL, Jan 25-27,1997
 235. 6th Annual Cardiovascular Conference at Beaver Creek, William Beaumont Hospital and Duke University Medical Center, Beaver Creek, CO, Feb 9-14,1997
 236. Chronic Heart Failure: A Manifestation of Coronary Artery Disease, Northwestern University Medical School, Chicago, IL, Mar 1,1997 (Program Co-Director)
 237. 41st Annual Meeting, Pittsburgh Society of Nuclear Medicine, Pittsburgh, PA, Mar 8,1997

238. Cardiology Update 1997, American Heart Association, Long Island Region, Melville, NY, Apr 16,
239. Recent Advances in Clinical Nuclear Cardiology Featuring Case Review with the Experts, American College of Cardiology, Bethesda, MD, May 8-10, 1997
240. Cardiovascular Symposium with the Experts, Johns Hopkins University Medical Center, Baltimore, MD, May 30-31,1997
241. 1997 Cardiovascular Research Forum, 75th Anniversary, American Heart Association of Metropolitan Chicago, Chicago, IL, June 11,1997
242. Transcatheter Cardiovascular Therapeutics, Washington Hospital Center, Washington, DC, Sep 24-28,1997
243. Chronic Heart Failure: A Manifestation of Coronary Artery Disease, Northwestern University Medical School, Merrillville, IN, Oct 4,1997 (Program Co-Director)
244. 6th Annual Cardiac SPECT Symposium, St-Luke's-Roosevelt Medical Center, Newport, RI, Oct 9-12,1997
245. Echo Northwestern 1997, Northwestern University Medical School, Chicago, IL, Oct 19-22,1997
246. Clinical Nuclear Cardiology: Case Review with the Experts, Cedars-Sinai Medical Center and American College of Cardiology, Los Angeles, CA, Jan 30-Feb 1,1998
247. 7th Annual Cardiovascular Conference at Beaver Creek, William Beaumont Hospital and Duke University Medical Center, Beaver Creek, CO, Feb 9-13,1998
248. Management of Valvular Heart Disease, Allegheny University-Hahnemann School of Medicine, Philadelphia, PA, Feb 10-11,1998
249. Recent Advances in Clinical Nuclear Cardiology Featuring Case Review with the Experts, American College of Cardiology, Bethesda, MD, May 7-9,1998
250. Frontiers in Cardiovascular Care, Bellin Hospital, Green Bay, WI, May 14,1998
251. 3rd Annual Cardiovascular Symposium with the Experts, Georgetown University Medical Center, Washington, DC, May 15-16,1998
252. Cardiac Care for Women: Factors for Success in the 21st Century, Inova Fairfax Hospital, Fairfax, VA, May 29,1998
253. Angiogenesis and Direct Myocardial Revascularization. Cardiology Research Foundation, Washington Hospital Center, Chantilly, VA, June 5-6,1998
254. How to Become A Clinical Cardiovascular Investigator, American College of Cardiology, American Heart Association, and National Heart, Lung, and Blood Institute, Bethesda, MD, June 5-6,1998 (Program Co-Director)
255. 4th Invitational Workshop on Nuclear Cardiology, American Society of Nuclear Cardiology, Wintergreen, VA, July 12-14,1998
256. Yellowstone Summit on Cardiovascular Care: Proving and Improving Performance in a Changing Environment, American College of Cardiology, West Yellowstone, WY, Aug 2-7,1998
257. Transcatheter Cardiovascular Therapeutics, Washington Hospital Center, Washington, DC, Oct 16-11,1998
258. Echo Northwestern 1998, Northwestern University Medical School, Chicago, IL, Oct 18-21,1998
259. Frontiers in Heart Failure Research, Key Biscayne, FL, Oct 30-31,1998 (Program Co-Director)
260. Management Strategies in Coronary Artery Disease, University of Virginia, Dallas, TX, Nov 7,1998
261. 26th Williamsburg Conference on Heart Disease, American College of Cardiology, Williamsburg, VA, Dec 6-9,1998
262. The New World of Cardiology, Futura Media Services, Paradise Island, Bahamas, Jan 16-19,1999
263. Clinical Nuclear Cardiology: Case Review with the Experts, Cedars-Sinai Medical Center and American College of Cardiology, Los Angeles, CA, Jan 29-31,1999
264. 8th Annual Cardiovascular Conference at Beaver Creek, William Beaumont Hospital and Duke University Medical Center, Beaver Creek, CO, Feb 8-12,1999
265. Cardiology at Cancun 1999, Mayo Clinic and American College of Cardiology, Cancun, Mexico, Feb 22-26,1999
266. NOGA Summit, Cardiology Research Foundation, Washington Hospital Center, Apr 29-30,1999
267. 7th Annual Cardiac SPECT Symposium, St. Lukes-Roosevelt Hospital Center, New York, NY Apr 30-May 2,1999
268. Recent Advances in Clinical Nuclear Cardiology Featuring Case Review with the Experts, American College of Cardiology, Bethesda, MD, May 13-15,1999
269. Annual Meeting, Alabama Chapter, American College of Cardiology, Destin, FL, May 22,1999
270. Vector Securities Cardiovascular Conference, Chicago, IL, Jun 2-4,1999
271. How to Become a Clinical Investigator, American College of Cardiology/American Heart Association/National Heart, Lung and Blood Institute, Bethesda, MD, Jun 3-4,1999 (symposium co-director)
272. Valvular Heart Disease: New Strategies for the New Millennium, Mayo Clinic, Rochester, MN, Jun 4-6,1999
273. 2nd Annual Symposium on Angiogenesis and Direct Myocardial Revascularization, Cardiovascular Research Foundation, Washington, DC, Jun 8-10,1999
274. 2nd Toronto International Heart Failure Summit, American College of Cardiology, Toronto, Ontario, Canada, Jun 10-12,1999
275. Chronic Heart Failure: A Manifestation of Coronary Artery Disease, Northwestern University Medical School, Chicago, IL, July 24,1999 (Course Co-Director)
276. Rocky Mountain Valve Symposium IX, The International Heart Institute of Montana, Missoula, MO, Aug 8-13,1999
277. The Changing Faces of Valvular Heart Disease, Cleveland Clinic Foundation, Cleveland, OH, Sep 22-24,1999
278. Transcatheter Cardiovascular Therapeutics, Washington Hospital Center, Washington, DC, Sep 23-25,1999
279. 4th Annual Tutorial in Nuclear Cardiology, American Society of Nuclear Cardiology, Washington, DC, Oct 1-3,1999
280. Echo Northwestern '99, Northwestern University Medical School, Chicago, IL, Oct 10-13,1999
281. Triennial Brigham Cardiac Valve Symposium, Harvard Medical School, Oct 21-22,1999
282. Management Strategies in Coronary Artery Disease, University of Virginia, Atlanta, GA, Nov 6,1999
283. Clinical Trials in Coronary Angiogenesis: Issues, Problems, and Solutions, The Angiogenesis Foundation, Atlanta, GA, Nov 6,1999
284. 31st Cardiovascular Conference at Snowmass, American College of Cardiology, Snowmass, CO, Jan 17-21, 2000
285. 3rd Annual Meeting, Society for Cardiac Magnetic

- Resonance, Atlanta, GA, Jan 21-23, 2000
286. Clinical Nuclear Cardiology: Case Review with the Experts, Cedars-Sinai Medical Center and American College of Cardiology, Los Angeles, CA, Jan 21-23, 2000
 287. 9th Annual Cardiovascular Conference at Beaver Creek, William Beaumont Hospital and Duke University Medical Center, Beaver Creek, CO, Feb 7-11, 2000
 288. 26th Cardiovascular Conference at Snowbird, American College of Cardiology, Snowbird, UT, Feb 16-19, 2000
 289. 8th Annual Cardiac SPECT Symposium, St. Luke's-Roosevelt Hospital Center, New York, NY, May 5-7, 2000
 290. Recent Advances in Clinical Nuclear Cardiology Featuring Case Review with the Experts, American College of Cardiology, Bethesda, MD, May 11-13, 2000
 291. Cardiology for the Primary Physician, American College of Cardiology and Medical University of South Carolina, Charleston, SC, June 1-3, 2000
 292. Valvular Heart Disease: New Strategies for the Third Millennium, Mayo Clinic, Rochester, MN, June 4-6, 2000
 293. The Third Toronto International Heart Failure Summit, American College of Cardiology, Toronto, Ontario, Canada, June 7-10, 2000
 294. How to Become a Clinical Cardiovascular Investigator, American Heart Association/ American College of Cardiology/National Heart, Lung and Blood Institute, Bethesda, MD Sep 8-9, 2000 (Course Co-Director)
 295. 4th Annual Meeting, Heart Failure Society of America, Boca Raton, FL, Sep 10-13, 2000
 296. 5th Annual Symposium and Scientific Session, American Society of Nuclear Cardiology, Chicago, IL, Sep 22-24, 2000
 297. 11th Annual Meeting, California Chapter, American College of Cardiology, San Diego, CA, Oct 6-7, 2000
 298. Transcatheter Cardiovascular Therapeutics 2000, Washington DC, Oct 18-22, 2000
 299. Echo Northwestern 2000, Northwestern University Medical School, Chicago, IL, Oct 22-25, 2000
 300. 28th Williamsburg Conference on Heart Disease, American College of Cardiology, Williamsburg, VA, Dec 3-6, 2000
 301. 32nd Annual Cardiovascular Conference at Snowmass, American College of Cardiology, Snowmass, CO, Jan 15-19, 2001
 302. Clinical Nuclear Cardiology: Case Review with the Experts, Cedars-Sinai Medical Center and American College of Cardiology, Los Angeles, CA, Jan 19-21, 2001
 303. Comprehensive Review of Echo and Nuclear Imaging in Ischemic Heart Disease, American College of Cardiology, Bethesda, MD, Jan 25-27, 2001
 304. 10th Annual Cardiovascular Conference at Beaver Creek, William Beaumont Hospital and Duke University Medical Center, Beaver Creek, CO, Feb 12-16, 2001
 305. Management of Asymptomatic Valvular Heart Disease: New Approaches, Mayo Clinic Foundation, Orlando, FL, Mar 17, 2001
 306. 9th Annual Cardiology Fiesta in San Antonio, American College of Cardiology, San Antonio, TX, Apr 26-28, 2001
 307. Recent Advances in Clinical Nuclear Cardiology Featuring Case Review with the Experts, American College of Cardiology, Bethesda, MD, May 10-12, 2001
 308. Valves in the Heart of the Big Apple, Weill Medical College of Cornell University and NY Cardiological Society, New York, NY, May 10-12, 2001
 309. 4th Toronto International Heart Failure Summit, American College of Cardiology, Toronto, Ontario, July 4-6, 2001
 310. Mechanisms and Management of Acute Coronary Syndromes, Northwestern University Medical School, Chicago IL, Aug 20, 2001 (Course Co-Director)
 311. How to Become a Cardiovascular Investigator, American Heart Association/ American College of Cardiology/National Heart, Lung and Blood Institute, Bethesda, MD, Sep 7-8, 2001 (Course Co-Director)
 312. Transcatheter Cardiovascular Therapeutics, Washington, DC, Sept 11, 2001
 313. 5th Annual Meeting, Heart Failure Society of America, Washington, DC, Sept 10-11, 2001
 314. Acute Coronary Syndromes: New Treatment Options for the New Millennium, Northwestern University, Chicago, IL, Sep 22, 2001
 315. Current Concepts in the Management of Cardiovascular Disease in the Diabetic, University of Chicago and Northwestern University Medical School, Chicago, IL, Oct 20, 2001 (Course Co-Director)
 316. 23rd Annual Echo Northwestern, Northwestern University Medical School, Chicago, IL, Oct 21-24, 2001
 317. 29th Williamsburg Conference on Heart Disease, American College of Cardiology, Williamsburg, VA, Dec 2-5, 2001
 318. 33rd Annual Cardiovascular Conference at Snowmass, American College of Cardiology, Snowmass, CO, Jan 14-18, 2002
 319. Clinical Nuclear Cardiology: Case Review with the Experts, Cedars-Sinai Medical Center and American College of Cardiology, Los Angeles, CA, Jan 18-20, 2002
 320. 52nd Scientific Session, American Heart Association, New England Affiliate, Rockland, ME. Feb 9-10, 2002
 321. Asian Pacific Science Forum, The Genomics Revolution: Bench to Bedside to Community, American Heart Association, Honolulu, HI, Apr 23-25, 2002
 322. Valves in the Heart of the Big Apple II, Weill Medical College of Cornell University and NY Cardiological Society, New York, NY, May 2-3, 2002
 323. Recent Advances in Clinical Nuclear Cardiology Featuring Case Review with the Experts, American College of Cardiology, Bethesda, MD, May 2-4, 2002
 324. Launching a Career in Cardiovascular Research, American Heart Association Midwest Affiliate, Chicago, IL, May 18, 2002 (program co-director)
 325. Get With The Guidelines, American Heart Association, Chicago, IL, June 1, 2002
 326. 5th International Heart Failure Summit, American College of Cardiology, Toronto, Ontario, Canada, June 13-15, 2002
 327. Transcatheter Cardiovascular Therapeutics, Washington, DC, Sept 25-28, 2002
 328. 7th Annual Symposium and Scientific Session, American Society of Nuclear Cardiology, Baltimore, MD, Sep 26-28, 2002
 329. How to Become a Cardiovascular Investigator, American Heart Association/ American College of Cardiology/ National Heart, Lung and Blood Institute, Bethesda, MD, Oct 18-19, 2002 (Course Co-Director)
 330. Cardiology for the Primary Care Physician, Guthrie Clinic, Corning, NY, Oct 19, 2002

331. 24th Annual Echo Northwestern, Northwestern University Feinberg School of Medicine, Chicago, IL, Oct 20-23, 2002
332. Eastern Iowa Heart Symposium, Cedar Rapids, IA, Nov 2, 2002
333. 17th Annual Symposium on Thrombolysis and Interventional Therapy in Acute Myocardial Infarction, George Washington University Medical Center, Chicago, IL, Nov 16, 2002
334. Cardiology Update: Congestive Heart Failure, American Heart Association, Heritage Affiliate, Long Island, NY, Dec 4, 2002
335. 30th Williamsburg Conference on Heart Disease, American College of Cardiology, Williamsburg, VA, Dec 8-11, 2002
336. 34th Annual Cardiovascular Conference at Snowmass, American College of Cardiology, Snowmass, CO, Jan 13-17, 2003
337. Clinical Nuclear Cardiology: Case Review with the Experts, Cedars-Sinai Medical Center and American College of Cardiology, Los Angeles, CA, Jan 17-19, 2003
338. The Year in Internal Medicine, Northwestern University Feinberg School of Medicine, Chicago, IL, Jan 22-24, 2003
339. 12th Annual Cardiovascular Conference at Beaver Creek, William Beaumont Hospital and Duke University Medical Center, Beaver Creek, CO, Feb 10-14, 2003
340. Integrative Approach to Cardiovascular Disease in Women, Lenox Hill Hospital and American Heart Association, New York, NY, Feb 25, 2003
341. Sixth Annual Physicians' Education Symposium, American Heart Association, Richmond Metro Division, Richmond, VA, Apr 10, 2003
342. Presidential Inaugural Symposium on Health Disparities, Morehouse School of Medicine, Atlanta, GA, Apr 11, 2003
343. Valves in the Heart of the Big Apple, Weill Medical College of Cornell University, New York, NY, May 8-9, 2003
344. 31st Annual Master Approach to Cardiovascular Problems, University of Miami School of Medicine, Orlando, FL, May 24-26, 2003
345. 14th Annual Meeting, Society for Vascular Medicine and Biology, Chicago, IL, June 6-8, 2003
346. Taste of Chicago Cardiovascular Symposium, American College of Cardiology, Chicago, IL, June 27-29, 2003 (Course Director)
347. Contemporary Issues in the Management of Cardiovascular Disease, University of Chicago, Nantucket, MA, Sept 5-7, 2003
348. 8th Annual Symposium and Scientific Session, American Society of Nuclear Cardiology, Indianapolis, IN, Sept 12-14, 2003
349. Cardiovascular Board Review, American College of Cardiology, Chicago, IL, Sept 10-14, 2003
350. Transcatheter Cardiovascular Therapeutics, Washington, DC, Sept 15-20, 2003
351. 7th Annual Meeting, Heart Failure Society of America, Las Vegas, NV, Sept 21-24, 2003
352. 9th Annual AstraZeneca Cardiovascular Young Investigators Forum, Savannah, GA, Oct 17-18, 2003 (competition judge)
353. 25th Annual Echo Northwestern, Northwestern University Feinberg School of Medicine, Chicago, IL, Oct 19-22, 2003
354. How to Become a Cardiovascular Investigator, American Heart Association/ American College of Cardiology/National Heart, Lung and Blood Institute, Bethesda, MD, Nov 21-22, 2003 (Course Co-Director)
355. Radiological Society of North America, 89th Scientific Assembly, Chicago, IL, Nov 30-Dec 5, 2003
356. 16th Great Lakes Regional Cardiovascular Health Conference, Chicago, IL, Dec 7-9, 2003
357. 31st Williamsburg Conference on Heart Disease, American College of Cardiology, Williamsburg, VA, Dec 7-10, 2003
358. Aggressive Management of the Metabolic Syndrome, Northwestern University Feinberg School of Medicine, Jan 10, 2004
359. The Year in Internal Medicine, Northwestern University Feinberg School of Medicine, Jan 21-23, 2004
360. Type 2 Diabetes, the Metabolic Syndrome, and Adult Obesity: Evolving the Paradigm. Duke Clinical Research Institute, McLean, VA, Jan 29-31, 2004
361. Clinical Nuclear Cardiology: Case Review with the Experts, Cedars-Sinai Medical Center and American College of Cardiology, Los Angeles, CA, Jan 30-Feb 1, 2004
362. 13th Annual Cardiovascular Conference at Beaver Creek, William Beaumont Hospital and Duke University Medical Center, Beaver Creek, CO, Feb 9-13, 2004
363. 26th Annual Cardiology at Big Sky, American College of Cardiology, Big Sky, MT, Feb 15-20, 2004
364. 12th Annual Cardiac Conference. Cardiology 2004: The Beat Goes On. Regional Medical Center at Bayonet Point, Palm Harbor, FL, Feb 21, 2004
365. Current Trends in the Care of Women with Cardiovascular Disease, Northwestern University Feinberg School of Medicine, Chicago, IL, Feb 25, 2004
366. American Health Quality Association Annual Session, New Orleans, LA, Mar 9-13, 2004
367. The George A. Beller, MD Cardiovascular Symposium: Major Advances in Cardiovascular Medicine & Surgery, University of Virginia School of Medicine, Charlottesville, VA, Mar 19, 2004
368. The 2004 Coeur d'Or Symposium, American Heart Association, Chicago, IL, April 6, 2004
369. Cardiovascular Magnetic Resonance Imaging: State of the Art, American College of Cardiology, Williamsburg, VA, May 2-4, 2004
370. 2nd Annual Chicago Cardiovascular Symposium, American College of Cardiology, Chicago, IL, May 7-9, 2004 (Course Director)
371. How to Become a Cardiovascular Investigator, American Heart Association/ American College of Cardiology/National Heart, Lung and Blood Institute, Bethesda, MD, May 14-15, 2004 (Course Co-Director)
372. Alabama Chapter Meeting, American College of Cardiology, Sandestin, FL, June 5-6, 2004
373. Valvular Heart Disease: New Strategies, Mayo Clinic, Rochester, MN, June 10-12, 2004
374. 7th Annual International Heart Failure Summit, American College of Cardiology, Toronto, Ontario, June 10-12, 2004
375. 5th Annual Symposium, Puerto Rican Society of Cardiology, Rio Grande, PR, July 16-19, 2004
376. Penn Cardiac Valve Symposium, University of Pennsylvania School of Medicine, Philadelphia, PA, Sep 13-14, 2004

377. 8th Annual Scientific Meeting, Heart Failure Society of America, Toronto, Ontario, Sep 12-15, 2004
378. Transcatheter Cardiovascular Therapeutics, Washington, DC, Sept 27-Oct 1, 2004
379. 4th Annual Cardiac Symposium, Guthrie Clinic, Corning, NY, Oct 2, 2004
380. 9th Annual Scientific Session, American Society of Nuclear Cardiology, New York, NY, Sep 30-Oct 3, 2004
381. Creating a Healthier Virginia, Virginia Health Quality Center, Richmond, VA, Oct 4-5, 2004
382. 26th Annual Echo Northwestern, Northwestern University Feinberg School of Medicine, Chicago, IL, Oct 17-20, 2004
383. 10th Annual AstraZeneca Cardiovascular Young Investigators Forum, San Diego, CA, Oct 17-18, 2004 (competition judge)
384. Advances in Cardiovascular Medicine and Surgery: A Symposium Honoring Dr. Barry L. Zaret, Yale University School of Medicine, October 26, 2004
385. How to Become a Cardiovascular Investigator, American Heart Association/ American College of Cardiology/National Heart, Lung and Blood Institute, Bethesda, MD, Dec 3-4, 2004 (Course Co-Director)
386. 32nd Williamsburg Conference on Heart Disease, American College of Cardiology, Williamsburg, VA, Dec 5-9, 2004
387. Clinical Nuclear Cardiology: Case Review with the Experts, Cedars-Sinai Medical Center and American College of Cardiology, Los Angeles, CA, Jan 28-30, 2005
388. Managing Risk Factors in the 21st Century, Piedmont Hospital, Atlanta, GA, Feb 5, 2005
389. 20th Annual Cardiovascular Symposium in Hawaii, Kohala Coast, HI, Feb 14-18, 2005
390. Valentine in Paradise: How to Prevent Heart Disease, Straub Foundation, Honolulu, HI, Feb 19, 2005
391. First Annual Heart Valve Summit, Northwestern University Feinberg School of Medicine, Apr 15-16, 2005 (Course Co-Director)
392. Annual Leadership Summit on Healthcare Disparities, National Minority Health Month Foundation, Washington, DC, April 26-27, 2005
393. Valves in the Heart of the Big Apple IV, Weill Medical College of Cornell University, April 28-30, 2005
394. 3rd Annual Chicago Cardiovascular Symposium, American College of Cardiology, Chicago, IL, May 13-15, 2005 (Course Director)
395. How to Become a Cardiovascular Investigator, American Heart Association/ American College of Cardiology/National Heart, Lung and Blood Institute, Bethesda, MD, June 3-4, 2005 (Course Co-Director)
396. Nuclear Cardiology Board Review, American Society of Nuclear Cardiology, Chicago, IL, July 30-31, 2005
397. Atrial Fibrillation: Challenges and Opportunities, Northwestern University Feinberg School of Medicine, Chicago, IL, Sep 8-9, 2005
398. Valvular Heart Disease 2005, American Association for Thoracic Surgery and Cardiovascular Research Foundation, Chicago, IL, Sep 9-11, 2005
399. 9th Annual Scientific Meeting, Heart Failure Society of America, Boca Raton, FL, Sep 18-21, 2005
400. Congestive Heart Failure Update, Medical College of Wisconsin, Milwaukee, WI, Sep 23-24, 2005
401. Progress in the Treatment of Cardiovascular Diseases: 2005, 2nd Annual Saint Barnabas Health Care System Symposium, Red Bank, NJ, Sep 24, 2005
402. 5th Annual Cardiovascular Symposium, Guthrie Clinic, Corning, NY, Oct 1, 2005
403. International Valve Symposium, Hoag Heart and Vascular Institute, Newport Beach, CA Oct 13-15, 2005
404. 27th Annual Echo Northwestern, Northwestern University Feinberg School of Medicine, Chicago, IL, Oct 15-17, 2005
405. Transcatheter Cardiovascular Therapeutics, Washington, DC, Oct 16-21, 2005
406. Cardiovascular Young Investigators Forum, Northwestern University Feinberg School of Medicine, Chicago IL, Oct 21-22, 2005 (competition chairman)
407. 5th Triennial Brigham Valve Symposium, Brigham and Women's Hospital, Boston, MA Oct 27-28, 2005
408. 3rd Annual Echocardiography: From Pictures to Information, Mayo Clinic Foundation, Phoenix, Az, Oct 26-30, 2005
409. 12th Annual Cardiovascular Update, Baptist Health System, San Antonio, TX, Nov 5-6, 2005
410. 1st Annual Medical and Legal Controversies in Sports Medicine, Northwestern University Feinberg School of Medicine, Chicago, IL, Dec 1-2, 2005
411. How to Become a Cardiovascular Investigator, American Heart Association/ American College of Cardiology/National Heart, Lung and Blood Institute, Bethesda, MD, December 2-3, 2005 (Course Co-Director)
412. 1st Annual Heart Failure Holiday Symposium, Northwestern University Feinberg School of Medicine, Chicago, IL, Dec 2-4, 2005
413. 38th Annual New York Cardiovascular Symposium, American College of Cardiology, New York, NY, Dec 9-11, 2005
414. Cardiovascular Conference at Snowshoe, American College of Cardiology, Snowshoe, WV, Jan 29-Feb 1, 2006
415. 21st Annual Cardiovascular Symposium in Hawaii, Society of Cardiac Angiography and Interventions, Kohala Coast, HI, Feb 13-17, 2006
416. 3rd Annual Symposium on New Interventions in Transcatheter Valve Techniques, San Francisco, CA, Apr 27-28, 2006
417. Cardiology for the Clinician, Cleveland Clinic Foundation, Oak Park, IL, Apr 29-30, 2006
418. Valvular Heart Disease: New Strategies, Mayo Clinic Foundation, Las Vegas, NV, May 14-17, 2006
419. 2006 Heart Valve Summit, American College of Cardiology, Chicago, IL, June 15-17, 2006 (Course Co-Director)
420. Pediatric and Adult Interventional Therapies for Congenital and Valvular Heart Disease, University of Chicago, Las Vegas, NV, Sep 10-13, 2006
421. Cardiovascular Young Investigators Forum, Northwestern University Feinberg School of Medicine, Chicago IL, Sep 29-30, 2006 (competition chairman)
422. Transcatheter Cardiovascular Therapeutics, Washington, DC, Oct 23-27, 2006
423. Advances in Minimally Invasive Treatment of Heart Disease, Hackensack University Medical Center,

- Hackensack, NJ, Nov 4, 2006
424. How to Become a Cardiovascular Investigator, American Heart Association/ American College of Cardiology/ National Heart, Lung and Blood Institute, Washington, DC, Dec 1-2, 2006 (Course Co-Director)
 425. 2nd Annual Heart Failure Holiday Symposium, Northwestern University Feinberg School of Medicine, Chicago, IL, Dec1-3, 2006
 426. 33rd Annual Williamsburg Conference on Heart Disease, Baylor University Medical Center, Williamsburg, VA, Dec 3-6, 2006
 427. 2nd Annual Medical and Legal Controversies in Sports Medicine, Northwestern University Feinberg School of Medicine, Chicago, IL, Dec 7-8, 2006
 428. Nuclear Cardiology and Cardiac CT: Case Review With the Experts, Cedars Sinai Medical Center, Los Angeles, CA, Jan 19-21, 2007
 429. 29th Annual Cardiovascular Symposium, Holy Cross Hospital, Ft. Lauderdale, FL, Jan 26-28, 2007
 430. 22nd Annual Cardiovascular Symposium in Hawaii, Society of Cardiac Angiography and Interventions, Kohala Coast, HI, Feb 10-17, 2007
 431. 12th Annual Cardiology at Cancun, Mayo Clinic Foundation, Cancun, Mexico, Feb 26-Mar 2, 2007
 432. E3 2007: Essential Echocardiography with Experts. Newer Insights and Innovations in Diseases of the Aortic Valve and the Aorta. American Society of Echocardiography, New Orleans, LA, Mar 24, 2007
 433. Florida Valve Symposium, Emory University Medical Center, St. Petersburg, FL, Mar 28-30, 2007
 434. Valves in the Heart of the Big Apple V, Weill Medical College of Cornell University, April 12-14, 2007
 435. Cardiology Update, Washington Hospital Center, Washington, DC, Apr 19-21, 2007
 436. 27th Annual Cardiovascular Symposium, St John's Medical Center, Tulsa, OK, May 11, 2007
 437. Recent Advances in the Management of Valvular Heart Disease, Washington University School of Medicine, St. Louis, Mo, May 12, 2007
 438. 4th Annual Team Echocardiography, Wake Forest University School of Medicine and Mayo Clinic College of Medicine, Hilton Head, SC, May 17-20, 2007
 439. 2007 Heart Valve Summit, American College of Cardiology, Boston, MA, June 6-8, 2007 (Course Co-Director)
 440. 4th Biennial Meeting, Society for Valvular Heart Disease, New York, NY, June 15-18, 2007
 441. 2nd Annual Scientific Meeting of the Society of Cardiovascular Computed Tomography, Washington, DC, July 5-8, 2007
 442. 12th Annual Scientific Session, American Society of Nuclear Cardiology, San Diego, CA, Sep 6-9, 2007
 443. 5th Annual Echocardiography: Pictures to Information, Mayo Clinic Foundation, Phoenix, Az, Sep 27-30, 2007
 444. 3rd Annual Cardiovascular Young Investigators Forum, Northwestern University Feinberg School of Medicine, Chicago IL, Sep 28-Oct 1, 2007 (competition chairman)
 445. 19th Annual Conference, Michigan Chapter, American College of Cardiology, Traverse City, MI, Oct 5-7, 2007
 446. Inaugural Meeting, West Coast Cardiovascular Summit, American College of Cardiology, San Francisco, CA, Oct 6-8, 2007
 447. International Valve Symposium, Hoag Memorial Hospital, Huntington Beach, CA, Oct 19-21, 2007
 448. 29th Annual Echo Northwestern, Northwestern University Feinberg School of Medicine, Chicago, IL, Oct 20-22, 2007
 449. Transcatheter Cardiovascular Therapeutics, Washington, DC, Oct 21-25, 2007
 450. IMAX 2007: Multimodality Imaging in Heart Failure, American Society of Echocardiography, Orlando, FL, Nov 3, 2007
 451. How to Become a Cardiovascular Investigator, American College of Cardiology/ American Heart Association, Washington, DC, Nov 9-10, 2007 (Course Co-Director)
 452. 34th Annual Williamsburg Conference on Heart Disease, Baylor University Medical Center, Williamsburg, VA, Dec 2-5, 2007
 453. 3rd Annual Institute for Sports Medicine and Sports Law Conference, Northwestern University Feinberg School of Medicine and Institute for Sports Medicine and Sports Law, Chicago, IL Dec 6-7, 2007
 454. 40th Annual New York Cardiovascular Symposium, American College of Cardiology, New York, NY, Dec 7-9, 2007
 455. 22nd Annual Nuclear Cardiology and Cardiac CT: Case Review With the Experts, Cedars Sinai Medical Center, Los Angeles, CA, Jan 25-27, 2008
 456. 23rd Annual Cardiovascular Symposium in Hawaii, Society of Cardiac Angiography and Interventions, Kohala Coast, HI, Feb 11-15, 2008
 457. Improve 2008. The Impact of Standards, Guidelines, and Appropriateness Driven Clinical Practice in the Diagnosis, Reporting and Management of Valvular Heart Disease, American Society of Echocardiography, San Diego, CA, Feb 16-17, 2008
 458. Florida Valve 2008, Tampa Heart Foundation, St. Petersburg, FL, Mar 6-7, 2008
 459. Association of Pakistani Cardiologists of North America annual meeting, Chicago, IL, Mar 30, 2008
 460. The Houston Aortic Symposium, University of Texas Health Sciences Center at Houston, Houston, TX, Apr 4-5, 2008
 461. 44th Annual Robert M. Jeresaty, MD, Cardiovascular Symposium, St Francis Hospital, Hartford, CT, Apr 30-May 1, 2008
 462. Valvular Heart Disease: New Strategies, Mayo Clinic Foundation, Las Vegas, NV, May 5-7, 2008
 463. 30th Annual Recent Advances in Nuclear Cardiology and Cardiac CT, American College of Cardiology, Washington, DC, May 8-10, 2008
 464. Cardiovascular Disease in the Elderly, Chicago Medical Society, Chicago, IL, May 10, 2008 (symposium director)
 465. 11th Annual Meeting, Hypertrophic Cardiomyopathy Association, Morristown, NJ, May 30-June 1, 2008
 466. Transcatheter Valve Therapeutics, Cardiovascular Research Foundation, Seattle, WA, June 6-8, 2008
 467. 22nd Annual Meeting, Florida Chapter, American College of Cardiology, Orlando, FL, Aug 22-23, 2008
 468. 2008 Heart Valve Summit, American College of Cardiology, Chicago, IL, Sep 18-20, 2008 (Course Co-Director)

469. 4th Annual Cardiovascular Young Investigators Forum, Northwestern University Feinberg School of Medicine, Chicago IL, Oct 2-5, 2008 (competition chairman)
470. 35th Annual Veith Symposium, New Horizons in Cardiac Surgery, Cleveland Clinic Foundation, New York, NY, Nov 19-23, 2008
471. 35th Annual Williamsburg Conference on Heart Disease, Baylor University Medical Center, Williamsburg, VA, Dec 7-9, 2008
472. 12th Annual Scientific Sessions, Society for Cardiovascular Magnetic Resonance, Orlando, FL, Jan 29-Feb 1, 2009
473. 23rd Annual Nuclear Cardiology and Cardiac CT: Case Review With the Experts, Cedars Sinai Medical Center, Los Angeles, CA, Jan 30-Feb 1, 2009
474. 12th Diastology and New Echo Technologies, Cleveland Clinic Foundation, Fort Lauderdale, FL, Feb 4-7, 2009
475. 24th Annual Cardiovascular Symposium in Hawaii, Society of Cardiac Angiography and Interventions and American College of Cardiology, Kohala Coast, HI, Feb 16-20, 2009
476. 20th Annual Update in Cardiology, Rex-University of North Carolina Medical Center, Raleigh, NC, Feb 21, 2009
477. 14th Annual Cardiology at Cancun, Mayo Clinic Foundation, Cancun, Mexico, Feb 23-27, 2009
478. Florida Valve 2009, Tampa Heart Foundation, St. Petersburg, FL, Feb 27-Mar 1, 2009
479. Kettering Cardiology Colloquium, Kettering Medical Center, Kettering, OH, Feb 25, 2009
480. Cardiovascular Research Technologies, Washington Hospital Center, Washington, DC, Mar 5-7, 2009
481. Cardiology 2009, St. Mary's Hospital, Fort Lauderdale, FL, Mar 6-8, 2009
482. Houston Aortic Symposium, University of Texas, Houston, TX, Mar 26-28, 2009
483. First International Cardiovascular Conference: Focus on the Middle East, Indiana University School of Medicine, Indianapolis, IN, Apr 1-2, 2009
484. Dallas-Leipzig International Valve Congress, Dallas, TX, Apr 23-25, 2009
485. 31st Annual Recent Advances in Nuclear Cardiology and Cardiac CT, American College of Cardiology, Washington, DC, May 7-9, 2009
486. Advances in Heart Disease Prevention and Rehabilitation, William Beaumont Hospital, Pontiac MI, May 8, 2009
487. 12th Annual Meeting, Hypertrophic Cardiomyopathy Association, Florham Park, NJ, May 28, 2009
488. The Treatment of Cardiovascular Disease: Legacy and Innovation, Cleveland Clinic Foundation, Cleveland, OH, Jun 3-5, 2009
489. Meeting of the Minds: Advances in Therapy for Cardiovascular Disease, SUNY at Stony Brook, Montauk, NY, Jun 4-5, 2009
490. 2009 Heart Valve Summit, American Association for Thoracic Surgery and American College of Cardiology, Chicago, IL, Sep 10-12, 2009 (Course Co-Director)
491. Transcatheter Cardiovascular Therapeutics 2009, Cardiovascular Research Foundation, San Francisco, CA, Sep 21-25, 2009
492. 5th Annual Cardiovascular Young Investigators Forum, Northwestern University Feinberg School of Medicine, Chicago IL, Sep 24-27, 2009 (competition chairman)
493. 14th Annual Scientific Session, American Society of Nuclear Cardiology, Minneapolis, MN, Oct 2-4, 2009
494. Contemporary Multi-Disciplinary Cardiovascular Medicine, Ohio State University Heart and Vascular Center, Orlando, FL, Oct 16-18, 2009
495. 31st Annual Echo Northwestern, Northwestern University Feinberg School of Medicine, Chicago, IL, Oct 18-20, 2009
496. How to Become a Cardiovascular Investigator, American College of Cardiology/ American Heart Association, Washington, DC, Dec 5-7, 2009 (Course Co-Director)
497. 36th Annual Williamsburg Conference on Heart Disease, Baylor University Medical Center, Williamsburg, VA, Dec 6-8, 2009
498. 24th Annual Nuclear Cardiology and Cardiac CT: Case Review With the Experts, Cedars Sinai Medical Center, Los Angeles, CA, Jan 29-31, 2010
499. 15th Annual Cardiology at Cancun, Mayo Clinic Foundation, Cancun, Mexico, Feb 22-26, 2010
500. 32nd Annual Cardiovascular Medicine at Big Sky Conference, American College of Cardiology, Big Sky, MT, Feb 15-19, 2010
501. Florida Valve 2010, Tampa Bay Heart Foundation, Orlando, FL, Mar 11-13, 2010
502. Health Journalism 2010, Association of Health Care Journalists, Chicago, IL, Apr 22-25, 2010
503. 32nd Annual Recent Advances in Nuclear Cardiology and Cardiac CT, American College of Cardiology, Washington, DC, May 6-8, 2010
504. Heart Rhythm 2010, 31st Annual Scientific Sessions, Heart Rhythm Society, Denver, CO, May 12-15, 2010
505. 21st Annual Scientific Sessions, American Society of Echocardiography, San Diego, CA, June 12-15, 2010
506. 2010 North Carolina Cardiovascular Update, University of North Carolina School of Medicine, Chapel Hill, NC, Sep 17-18, 2010
507. Transcatheter Cardiovascular Therapeutics 2010, Cardiovascular Research Foundation, Washington DC, Sep 20-25, 2010
508. 6th Annual Cardiovascular Young Investigators Forum, Northwestern University Feinberg School of Medicine, Chicago IL, Sep 30-Oct 3, 2010 (competition chairman)
509. 2010 Heart Valve Summit, American College of Cardiology and American Association for Thoracic Surgery, Chicago, IL, Oct 7-9, 2010 (Symposium Co-Director)
510. 10th Annual Echo New York, St. Luke Roosevelt Medical Center, New York, NY, Oct 9-11, 2010
511. 32nd Annual Echo Northwestern, Northwestern University Feinberg School of Medicine, Chicago, IL, Oct 17-19, 2010
512. First Annual Heart Valve Symposium, North Shore-Long Island Jewish Medical Center, New Hyde Park, NY, Oct 13, 2010
513. 2nd Annual Contemporary Multi-Disciplinary Cardiovascular Medicine, Ohio State University Heart and Vascular Center, Orlando, FL, Oct 15-17, 2010
514. 7th Annual Heart Failure Holiday Symposium, Northwestern University Feinberg School of Medicine, Chicago, IL, Dec 3-4, 2010
515. How to Become a Cardiovascular Investigator, American College of Cardiology/ American Heart Association, Washington, DC, Dec 3-4, 2010 (Course Co-Director)

516. 37th Annual Williamsburg Conference on Heart Disease, Baylor University Medical Center, Williamsburg, VA, Dec 5-7, 2010
517. Dallas-Leipzig International Valve 2010, Dallas, TX, Dec 9-11, 2010
518. The Heart Beat of Chicago, Mayo Clinic and University of Chicago, Chicago, IL, Dec 9-11, 2010
519. Cardiovascular Research Technologies, Washington Hospital Center, Washington, DC, Feb 27-Mar 1, 2011
520. National Cardiovascular Controversies: Valvular and Interventional, Piedmont Heart Institute, Greensboro, GA, Apr 14-16, 2011
521. 47th Annual Robert M. Jeresaty, MD, Cardiovascular Symposium, St. Francis Hospital, Hartford, CT, May 4-5, 2011
522. AATS Mitral Conclave 2011, American Association for Thoracic Surgery, New York, NY, May 5-6, 2011
523. 33rd Annual Recent Advances in Clinical Nuclear Cardiology and Cardiac CT, American College of Cardiology, Washington, DC, May 5-7, 2011
524. ASNC11, American Society of Nuclear Cardiology, Denver, CO, Sep 8-10, 2011
525. 7th Annual Cardiovascular Young Investigators Forum, Northwestern University Feinberg School of Medicine, Chicago IL, Sep 22-24, 2010 (competition chairman)
526. 2011 Heart Valve Summit, American Association for Thoracic Surgery and American College of Cardiology, Chicago, IL, Oct 13-15, 2011 (Symposium Co-Director)
527. 7th Triennial Brigham Cardiac Valve Symposium, Brigham and Women's Hospital, Boston, MA, Oct 20-21, 2011
528. 33rd Annual Echo Northwestern, Northwestern University Feinberg School of Medicine, Chicago, IL, Oct 21-24, 2011
529. Transcatheter Cardiovascular Therapeutics 2011, Cardiovascular Research Foundation, San Francisco, CA, Nov 7-11, 2011
530. How to Become a Cardiovascular Investigator, American College of Cardiology/ American Heart Association, Washington, DC, Dec 2-3, 2011 (Course Co-Director)
531. 38th Annual Williamsburg Conference on Heart Disease, Baylor University Medical Center, Williamsburg, VA, Dec 4-6, 2011
532. ACCF/STS Transcatheter Heart Valve Symposium, American College of Cardiology Foundation and Society of Thoracic Surgeons, Washington DC, Dec 9-10, 2011
533. The Heart Beat of Chicago, Mayo Clinic and University of Chicago, Chicago, IL, Dec 15-17, 2011
534. 27th Annual Nuclear Cardiology and Cardiac CT: Case Review With the Experts, Cedars Sinai Medical Center, Los Angeles, CA, Jan 20-22, 2012
535. 15th Annual Scientific Sessions, Society for Cardiovascular Magnetic Resonance, Orlando, FL, Feb 2-5, 2012
536. Florida Valve Symposium, University of Pittsburgh Medical Center, Orlando, FL, Mar 21-23, 2012
537. 34th Annual Recent Advances in Clinical Nuclear Cardiology and Cardiac CT, American College of Cardiology Foundation, Washington, DC, May 3-5, 2012
538. Transcatheter Valve Technologies 2012, Cardiovascular Research Foundation, Seattle, WA, June 2-5, 2012
539. West Coast Cardiovascular Forum, American College of Cardiology Foundation, San Francisco, CA, June 8-10, 2012
540. ASE 2012, American Society of Echocardiography Scientific Sessions, National Harbor, MD, June 30-July 3, 2012
541. Chicago Cardiovascular Update, Northwestern University Feinberg School of Medicine, Chicago, IL, July 13-14, 2012
542. Cardiovascular Update 2012, Mayo Clinic Foundation, Sedona, AZ, Aug 2-5, 2012
543. 16th Annual Scientific Meeting, Heart Failure Society of America, Seattle, WA, Sep 9-12, 2012
544. 8th Annual Cardiovascular Young Investigators Forum, Northwestern University Feinberg School of Medicine, Chicago IL, Sep 21-22, 2012 (competition chairman)
545. 34th Annual Echo Northwestern, Northwestern University Feinberg School of Medicine, Chicago, IL, Oct 6-9, 2012
546. 2012 Heart Valve Summit, American College of Cardiology and American Association for Thoracic Surgery, Chicago, IL, Oct 11-13, 2012 (Symposium Co-Director)
547. How to Become a Cardiovascular Investigator, American College of Cardiology/ American Heart Association, Washington, DC, Nov 30-Dec 1, 2012 (Course Co-Director)
548. 39th Annual Williamsburg Conference on Heart Disease, Baylor University Medical Center, Williamsburg, VA, Dec 2-4, 2012
549. Dallas-Leipzig International Valve 2010, Dallas, TX, Dec 5-7, 2012
550. 45th Annual New York Cardiovascular Symposium, American College of Cardiology, New York, NY, Dec 7-9, 2012
551. The Heart Beat of Chicago, Mayo Clinic and University of Chicago, Chicago, IL, Dec 13-15, 2012
552. Heart Valve Symposium, St. Michael's Hospital, Toronto, Ontario, Canada, Jan 12, 2013

Lectures: Academic Medical Centers and Medical Societies

1. Cardiology Grand Rounds, Walter Reed Army Medical Center, Washington, DC, Sept 23, 1980
2. Department of Nuclear Medicine, Georgetown University Hospital, Washington, DC, Jan 29, 1981
3. Cardiology Grand Rounds, Medical College of Virginia, Richmond, VA, Apr 9, 1981
4. Cardiology Rounds, National Naval Medical Center, Bethesda, MD, May 26, 1981
5. Cardiology Grand Rounds, Yale University School of Medicine, New Haven, CT, July 20, 1981
6. Cardiology Seminar, University of Kentucky School of Medicine, Lexington, KY, Nov 26, 1981
7. Cardiology Grand Rounds, The George Washington University Medical Center, Washington, DC, June 9, 1982
8. Cardiology Research Conference, University of Antwerp, Antwerp, Belgium, Dec 7, 1982
9. Cardiology Grand Rounds, Harlem Hospital Medical Center, New York, NY, Jan 18, 1983
10. Medical Grand Rounds, St. Michael's Medical Center, Newark, NJ, Apr 7, 1983
11. Cardiology Consortium Conference, University of Connecticut School of Medicine, Farmington, CT, May 24, 1983
12. Medical Grand Rounds, National Naval Medical Center, Bethesda, MD, Sept 8, 1983
13. Cardiology Grand Rounds, University of Virginia Medical Center, Charlottesville, VA, Sept 13, 1983
14. Nuclear Medicine Conference, University of Connecticut Health Center, Farmington, CT, Oct 11, 1983
15. Cardiology Rounds, National Naval Medical Center, Bethesda, MD, Oct 18, 1983
16. Cardiology Grand Rounds, The George Washington University Medical Center, Washington, DC, Jan 25, 1984 and Feb 1, 1984
17. Cardiology Grand Rounds, Beth Israel Hospital, Boston, MA, Feb 16-17, 1984:
18. Cardiology Seminar Series, E.O. Ospedali Galliera, Genova, Italy, June 6, 1984
19. Cardiology Division, Ospedale de Rho, Milan, Italy, June 8, 1984
20. Department of Internal Medicine, Walter Reed Army Medical Center, Washington, DC, Aug 15, 1984
21. Medical Grand Rounds, Hartford Hospital, Hartford, CT, Dec 7, 1984
22. Maryland Society of Nuclear Medicine, Baltimore, MD, Jan 10, 1985
23. Cardiology Grand Rounds, Division of Cardiology, University of Alabama School of Medicine, Birmingham, AL, Feb 2, 1985
24. Cardiology Grand Rounds, Medical College of Virginia, Richmond, VA, Mar 21, 1985
25. Cardiology Grand Rounds, Rush-Presbyterian-St. Luke's Medical Center, Chicago, IL, Sept 12, 1985
26. Cardiology Grand Rounds, Henry Ford Hospital, Detroit, MI, Oct 18, 1985
27. Cardiology Grand Rounds, Alton Ochsner Medical Center, New Orleans, LA, Oct 29, 1985
28. Cardiology Core Curriculum, St. Francis Hospital and Medical Center, Hartford, CT, Nov 8, 1985
29. Cardiology Grand Rounds, Texas Heart Institute, Houston, TX, Nov 22, 1985
30. American Heart Association, Western Maryland Division, Cumberland, MD, Jan 29, 1986
31. Cardiology Rounds, Howard University Hospital, Washington, DC, Feb 6, 1986
32. Medical Grand Rounds, Tufts-New England Medical Center, Boston, MA, Apr 11, 1986
33. Medical Grand Rounds, 1st Cattreda de Medicina Interna, University of Naples, Naples, Italy, May 27, 1986
34. Medical Grand Rounds, Hospital of the University of Pennsylvania, Philadelphia, PA, June 18, 1986
35. Division of Cardiology, Loyola University Stritch School of Medicine, Chicago, IL, Aug 18, 1986
36. Medical Grand Rounds, University of Kansas School of Medicine, Kansas City, KS, Aug 20, 1986
37. Cardiology Grand Rounds, St. Luke's Hospital/ Mid-America Heart Institute, Kansas City, MO, Aug 20, 1986
38. Cardiology Grand Rounds, Wayne State University School of Medicine, Detroit, MI, Oct 9, 1986
39. University of Lisbon Faculty of Medicine, Lisbon, Portugal, Oct 24, 1986
40. Clinical Center Grand Rounds, National Institutes of Health, Bethesda, MD, Oct 29, 1986
41. Medical Grand Rounds, East Carolina University School of Medicine, Greenville, NC, Nov 5, 1986
42. Tidewater Cardiovascular Society, Norfolk, VA, Nov 11, 1986
43. Cardiology Grand Rounds, George Washington University, Washington, DC, Dec 10, 1986
44. Cardiology Conference Series, Long Island Jewish Hospital, New Hyde Park, NY, Jan 12, 1987
45. Medical Grand Rounds, University of Medicine and Dentistry of New Jersey, Newark, NJ, Jan 16, 1987
46. Medical Grand Rounds, University of Tennessee College of Medicine, Chattanooga, TN, Feb 5, 1987
47. Greater Miami Cardiology Society, American Heart Association, Miami Affiliate, Miami FL, Feb 6, 1987
48. Cardiology Rounds, Brookdale Hospital, Downstate Medical Center, Brooklyn, NY, Feb 24, 1987
49. American Heart Association, Central Ohio Chapter, Chillicothe, OH, Apr 9, 1987
50. Cardiology Grand Rounds, Downstate Medical Center, Brooklyn, NY, Apr 15, 1987
51. Cardiology Grand Rounds, Lenox Hill Hospital, New York, NY, June 15, 1987
52. Cardiology Conference, Mayo Clinic, Rochester, MN, July 30, 1987
53. Cardiology Grand Rounds, New York Medical College, Westchester, NY, Sept 8, 1987

54. Cardiology Grand Rounds, University of Virginia School of Medicine, Charlottesville, VA, Oct 13, 1987
55. Medical Grand Rounds, Baltimore V.A. Medical Center, Baltimore, MD, Oct 20, 1987
56. American Heart Association, Indiana Affiliate, Terre Haute, IN, Oct 30, 1987
57. Medical Grand Rounds, Hartford Hospital, Hartford, CT, Nov 6, 1987
58. Medical Grand Rounds, Mt. Sinai Hospital, Cleveland, OH, Dec 9, 1987
59. Medical Grand Rounds, St. Michael's Hospital, Newark, NJ, Dec 17, 1987
60. Clinical Center Grand Rounds, National Institutes of Health, Bethesda, MD, Dec 23, 1987
61. Medical Grand Rounds, Queens Hospital Medical Center, Jamaica, NY, Jan 6, 1988
62. Medical Grand Rounds, Methodist Hospital, Indianapolis, IN, Jan 20, 1988
63. Cardiology Rounds, Albert Einstein Medical Center, Bronx, NY, Feb 18, 1988
64. Ontario Nuclear Medicine Society, Toronto, Ontario, Mar 8, 1988
65. Cardiology Rounds, Toronto General Hospital, Toronto, Ontario, Mar 9, 1988
66. Cardiology Grand Rounds, Ottawa Heart Institute, Ottawa, Ontario, Mar 9, 1988
67. Cardiology Grand Rounds, Boston University School of Medicine, Boston, MA, Mar 14, 1988
68. Cardiology Grand Rounds, Montefiore Hospital, Bronx, NY, Mar 22, 1988
69. Delaware County Echocardiography Society, Philadelphia, PA, Apr 19, 1988
70. Cardiology Grand Rounds, Philadelphia Heart Institute, Presbyterian-University of Pennsylvania Medical Center, Philadelphia, PA, Apr 21, 1988
71. Clinical Center Grand Rounds, National Institutes of Health, Bethesda, MD, Sept 28, 1988
72. Cardiology Grand Rounds, University of North Carolina, Chapel Hill, NC, Sept 30, 1988
73. Cardiology Grand Rounds, University of Nebraska Medical Center, Omaha, NE, Oct 25, 1988
74. Medical Grand Rounds, Creighton University School of Medicine, Omaha, NE, Oct 26, 1988
75. Cardiology Grand Rounds, Philadelphia Heart Institute, Presbyterian-University of Pennsylvania Medical Center, Philadelphia, PA, Nov 10, 1988
76. Medical Grand Rounds, Brooklyn V.A. Medical Center, Brooklyn, NY, Nov 30, 1988
77. Medical Grand Rounds, National Naval Medical Center, Bethesda, MD, Dec 8, 1988
78. Cardiology Grand Rounds, Beth Israel Hospital, Boston, MA, Dec 9, 1988
79. Cardiology Conference Series, University of Wisconsin Medical Center, Madison, WI, Dec 15, 1988
80. Cardiology Grand Rounds, Washington Hospital Center, Washington, DC, Jan 25, 1989
81. Cardiology Seminar Series, University of Massachusetts Medical Center, Worcester, MA, Feb 15, 1989
82. Medical Grand Rounds, University of Pittsburgh School of Medicine, Pittsburgh, PA, Feb 23-24, 1989
83. Cardiology Grand Rounds, Yale-New Haven Hospital, New Haven, CT, Mar 3, 1989
84. Medical Grand Rounds, The Alton Ochsner Medical Foundation, New Orleans, LA, Apr 19, 1989
85. Cardiology Grand Rounds, Columbia University College of Physicians and Surgeons, New York, NY, May 16, 1989
86. Cardiology Division, Columbia University - Harlem Hospital Center, New York, NY, May 17, 1989
87. Cardiology Division, Columbia University - St. Luke's/ Roosevelt Hospital Center, New York, NY, May 17, 1989
88. Department of Cardiology, 1st Cattreda de Medicina Interna, University of Naples, Naples, Italy, June 6, 1989
89. Cardiology Division, Georgetown University Medical Center, Washington, DC, June 20, 1989
90. Cardiology Grand Rounds, George Washington University, Washington, DC, Oct 4, 1989
91. Cardiology Grand Rounds, Hahnemann University Medical Center, Philadelphia, PA, Oct 12, 1989
92. Cardiology Grand Rounds, George Washington University Medical Center, Washington, DC, Oct 18, 1989
93. Clinical Center Grand Rounds, National Institutes of Health, Bethesda, MD, Nov 22, 1989
94. Medical Grand Rounds, The Medical Center at Princeton, Princeton, NJ, Nov 28, 1989
95. Cardiology Grand Rounds, Emory University School of Medicine, Atlanta, GA, Dec 13, 1989
96. Cardiology Conference, Crawford Long Hospital-Emory University Medical Center, Atlanta, GA, Dec 14, 1989
97. Cardiology Conference, Veterans Administration Medical Center, West Roxbury, MA, Jan 4, 1990
98. Cardiology Conference, Boston University School of Medicine, Boston, MA, Jan 4, 1990
99. Cardiology Grand Rounds, Brigham and Women's Hospital, Boston, MA, Jan 4, 1990
100. Cardiology Conference, Lahey Clinic, Burlington, MA, Jan 4, 1990
101. Cardiology Research Seminar, Vanderbilt University Medical Center, Nashville, TN, Jan 20, 1990
102. Medical Grand Rounds, Methodist Hospital, Indianapolis, IN, Feb 8, 1990
103. Medical Grand Rounds, Henry Ford Hospital, Detroit, MI, Mar 29, 1990
104. Cardiology Rounds, William Beaumont Hospital, Detroit, MI, Mar 29, 1990
105. Cardiology Grand Rounds, Massachusetts General Hospital, Boston, MA, Apr 11, 1990
106. Cardiology Rounds, New England Deaconess Hospital, Boston, MA, Apr 11, 1990
107. Cardiology Rounds, Winthrop University Hospital, Mineola, NY, June 14, 1990
108. Medical Grand Rounds, Long Island Jewish Hospital, New Hyde Park, NY, June 15, 1990
109. Cardiology Grand Rounds, Cedars-Sinai Medical Center, Los Angeles, CA, July 17, 1990
110. Clinical Center Grand Rounds, National Institutes of Health, Bethesda, MD, August 22, 1990

111. Cardiology Grand Rounds, Hospital of the University of Pennsylvania, Philadelphia, PA, Sep 13, 1990
112. Cardiology Rounds, Hahnemann University Medical Center, Philadelphia, PA, Sep 14, 1990
113. Cardiology Grand Rounds, Temple University School of Medicine, Philadelphia, PA, Sep 14, 1990
114. Cardiology Grand Rounds, Montefiore Hospital, Bronx, NY, Sep 25, 1990
115. Cardiology Conference, Columbia University - Harlem Hospital Center, New York, NY, Sep 25, 1990
116. Cardiology Grand Rounds, Columbia University College of Physicians and Surgeons, New York, NY, Sept 25, 1990
117. Medical Grand Rounds, University of Illinois College of Medicine, Chicago, IL, Oct 4, 1990
118. Cardiology Rounds, Rush-Presbyterian Medical Center, Chicago, IL, Oct 5, 1990
119. Medical Grand Rounds, Northwestern University School of Medicine, Chicago, IL, Oct 5, 1990
120. Cardiology Grand Rounds, Boston University, Boston, MA, Nov 5, 1990
121. Seminars in Cardiovascular Physiology, Tufts-New England Medical Center, Boston, MA, Nov 6, 1990
122. Cardiology Grand Rounds, Wayne State University School of Medicine, Detroit, MI, Jan 10, 1991
123. Cardiology Grand Rounds, Robert Wood Johnson Medical School, New Brunswick, NJ, Jan 24, 1991
124. Cardiology Grand Rounds, Georgetown University Hospital, Washington, DC, Jan 24, 1991
125. Cardiology Rounds, Georgetown University Hospital, Washington, DC, Jan 28, 1991
126. Cardiology Grand Rounds, Centre for Cardiovascular Research, University of Toronto, Toronto, Ontario, May 15, 1991
127. Cardiology Grand Rounds, George Washington University Hospital, Washington, DC, May 23, 1991
128. Medical Grand Rounds, Washington Hospital Center, Washington, DC, Oct 15, 1991
129. Cardiology Grand Rounds, Mount Sinai Medical Center, New York, NY, Nov 25, 1991
130. Medical Grand Rounds, Hahnemann University Hospital, Philadelphia, PA, Dec 4, 1991
131. Cardiology Grand Rounds, Long Island Jewish Hospital, New Hyde Park, NY, Dec 23, 1991
132. Radiology Grand Rounds and Cardiology Grand Rounds, Yale University School of Medicine, New Haven, CT, Jan 16-17, 1992
133. Daniel R. Biello Memorial Lecture, Mallinckrodt Institute of Radiology, Washington University, St. Louis, Feb 10, 1992
134. Don C. Sutton Memorial Lecture in Cardiology, Medical Grand Rounds, The Evanston Hospital, Evanston, IL, Apr 24, 1992
135. 7th Annual L.L. Braun Lecture, Illinois Masonic Medical Center, Chicago, IL, May 20, 1992
136. Cardiology Seminar Series, North Shore University Hospital, Manhasset, NY, June 25, 1992
137. Cardiology Grand Rounds, Baylor College of Medicine, Houston, TX, Sept 10, 1992
138. Cardiology Grand Rounds, New York Hospital-Cornell University Medical Center, New York, NY, Sept 18, 1992
139. State of the Heart Lecture, Section of Cardiology, Loyola University Medical Center, Maywood, IL, Sept 30, 1992
140. Medical Grand Rounds, Northwestern University Medical School, Chicago, IL, Oct 2, 1992
141. Douglas Boyd Memorial Lecture, Highland Park Hospital, Highland Park, IL, Oct 20, 1992
142. Medical Grand Rounds, Michael Reese Hospital, Chicago, IL, Oct 21, 1992
143. Medical Grand Rounds, Lutheran General Hospital, Park Ridge, IL, Nov 4, 1992
144. Cardiology Grand Rounds, Beth Israel Hospital, Boston, MA, Nov 12, 1992
145. Medical Grand Rounds, University of Chicago, Chicago, IL, Dec 1, 1992
146. Chicago Society of Internal Medicine, Chicago, IL, Jan 25, 1993
147. Cardiology Grand Rounds, Texas Heart Institute, Houston, TX, Apr 2, 1993
148. Cardiology Grand Rounds, Christ Hospital, Oak Lawn, IL, Apr 22, 1993
149. Cardiology Grand Rounds, University of Bologna, Bologna, Italy, May 27, 1993
150. Medical Grand Rounds, University of Naples, Naples, Italy, May 31, 1993
151. Cardiology Grand Rounds, St. Francis Hospital, Evanston, IL, Sept 18, 1993
152. Cardiology Grand Rounds, University of Illinois College of Medicine, Chicago, IL, Oct 27, 1993
153. Medical Grand Rounds, St. Joseph Hospital, Chicago, IL, Nov 3, 1993
154. Cardiology Rounds, Illinois Masonic Medical Center, Chicago, IL, Nov 16, 1993
155. Cardiology Grand Rounds, Montefiore Hospital, Bronx, NY, Dec 7, 1993
156. Cardiology Grand Rounds, Mt. Sinai Medical Center, New York, NY, Dec 7, 1993
157. New York Academy of Medicine, New York, NY, Dec 7, 1993
158. Medical Grand Rounds, St. Louis University, St. Louis, MO, Dec 17, 1993
159. Cardiology Grand Rounds, Krannert Institute of Cardiology, Indiana University School of Medicine, Indianapolis, IN, Feb 14, 1994
160. Medical Grand Rounds and Cardiology Grand Rounds, University of Iowa, Iowa City, IA, Feb 23-24, 1994
161. Medical Grand Rounds, Geisinger Medical Center, Danville, PA, Apr 1, 1994
162. Philadelphia Academy of Cardiology, Philadelphia, PA, Apr 14, 1994
163. Medical Grand Rounds, Medical College of Wisconsin, Milwaukee, WI, May 6, 1994
164. Cardiology Grand Rounds, Allegheny General Hospital, Pittsburgh, PA, Sep 8, 1994
165. Douglas Boyd Memorial Lecture, Highland Park Hospital, Highland Park, IL, Oct 18, 1994
166. Zolle Frank Lectureship, MacNeal Hospital, Berwyn, IL, Nov 23, 1994

167. Distinguished Lecturer Series, Division of Cardiology, University of Cincinnati, Cincinnati, OH, May 15, 1995
168. Cardiology Conference, University of Michigan, Ann Arbor, MI, June 1, 1995
169. Cardiology Conference, Chicago Medical School, North Chicago, IL, July 10, 1995
170. Cardiovascular Forum, St. John's Hospital, Southern Illinois University School of Medicine, Springfield, IL, Sep 29, 1995
171. Cardiology Grand Rounds, University of Texas at Houston, Houston, TX, Nov 3, 1995
172. Medicine Grand Rounds, Northwestern University Medical School, Nov 4, 1995
173. Heart Center Grand Rounds, Cleveland Clinic Foundation, Dec 15, 1995
174. Cardiology Grand Rounds, Christ Hospital, Oak Lawn, IL, Feb 22, 1996
175. American Society of Nuclear Cardiology, Texas Working Group, Apr 10, 1996
176. Cardiology Grand Rounds, Baylor College of Medicine, Houston, TX, Apr 11, 1996
177. Medicine Grand Rounds, Presbyterian-University of Pennsylvania Medical Center, Philadelphia, PA, Apr 12, 1996
178. Cardiology Grand Rounds, Rush Presbyterian St. Luke's Medical Center, Chicago, IL, May 9, 1996
179. Brown Cardiology Seminar Series, Brown University School of Medicine, Oct 10, 1996
180. Cardiology Grand Rounds, Hahnemann Medical Center Philadelphia, PA, Dec 12, 1996
181. Medicine Grand Rounds, Robert Wood Johnson Medical School, New Brunswick, NJ, Feb 19, 1997
182. Medicine Grand Rounds, Northwestern University Medical School, Chicago, IL, Feb 21, 1997
183. Cardiology Grand Rounds, Texas Heart Institute, Houston, TX, Feb 28, 1997
184. Cardiology Grand Rounds, Beth Israel Hospital, Boston, MA, Mar 6, 1997
185. Cardiology Grand Rounds, Columbia-Presbyterian Medical Center, New York, NY, Mar 11, 1997
186. Medical Grand Rounds and Cardiology Grand Rounds, Mayo Clinic, Rochester, MN, Apr 30-May 2, 1997
187. Medical Grand Rounds and Cardiology Grand Rounds, University of Kentucky, Lexington, KY, May 6-7, 1997
188. Preventive Medicine Grand Rounds, Rush-Presbyterian-St. Luke's Medical Center, Chicago, IL, Oct 7, 1997
189. Medicine Grand Rounds, University of Illinois Medical Center, Chicago, IL, Oct 9, 1997
190. Cardiology Update Series, Penn State University-Milton Hershey Medical Center, Harrisburg, PA, Dec 11, 1997
191. Cardiology Grand Rounds, University of Virginia Medical Center, Charlottesville, VA, Jan 6, 1998
192. Cardiology Grand Rounds, NYU Medical Center, New York, NY, Jan 22, 1998
193. Medicine Grand Rounds, Allegheny -Hahnemann School of Medicine, Philadelphia, PA, Feb 11, 1998
194. Medicine Grand Rounds and Cardiology Grand Rounds, University of Massachusetts, Worcester, MA, Apr 9-10, 1998
195. Medicine Grand Rounds, Memorial Hospital, Worcester, MA, Apr 9, 1998
196. Medicine Grand Rounds, Illinois Masonic Medical Center, Chicago, IL, May 22, 1998
197. Medicine Grand Rounds, North Shore University Hospital, Manhasset, NY, June 18, 1998
198. Medicine Grand Rounds, Tufts-New England Medical Center, Boston, MA, June 19, 1998
199. Medical Grand Rounds, Michael Reese Hospital, Chicago, IL, Oct 21, 1998
200. Medicine Grand Rounds, Northwestern University Medical School, Chicago, IL, Sep 25, 1998
201. Cardiology Grand Rounds, University of Pennsylvania School of Medicine, Philadelphia, PA, Nov 19, 1998
202. Medicine Grand Rounds, University of West Virginia, Charleston, WV, Apr 1, 1999
203. Medicine Grand Rounds, Abington Hospital, Temple University Medical School, Abington, PA, Apr 28, 1999
204. Cardiology Grand Rounds, St. Luke's-Roosevelt Hospital Center, New York, NY, May 19, 1999
205. Cardiology Grand Rounds and Medicine Grand Rounds, Rush-Presbyterian St. Lukes Medical Center, Chicago, IL, Oct 12-13, 1999
206. Medicine Grand Rounds, Illinois Masonic Medical Center, Chicago, IL, Nov 12, 1999
207. New York Chapter, American Society of Nuclear Cardiology, New York, NY, Dec 13, 1999
208. Cardiology Grand Rounds, Montefiore-Albert Einstein Medical Center, Bronx, NY, Dec 14, 1999
209. Cardiology Grand Rounds, University of Texas at Houston, Houston, TX, Apr 20, 2000
210. Cardiology Grand Rounds, University of Chicago Hospital, Chicago, IL, Sep 29, 2000
211. Cardiology Grand Rounds, University of Minnesota, Minneapolis, MN, Dec 20, 2000
212. Cardiology Grand Rounds, Mount Sinai Medical Center, New York, NY, Feb 26, 2001
213. Cardiology Grand Rounds, Baylor College of Medicine, Houston, TX, Apr 12, 2001
214. Cardiology Grand Rounds, University of Michigan, Ann Arbor, MI, May 1, 2001
215. Cardiology Grand Rounds, University of Massachusetts, Worcester, MA, May 17, 2001
216. Medicine Grand Rounds, University of Wisconsin Medical Center, Madison, WI, June 1, 2001
217. Medicine Grand Rounds and Cardiology Grand Rounds, University of Washington, Seattle, WA, Sept 27-28, 2001
218. New England Working Group, American Society of Nuclear Cardiology, Hartford CT and Portland, ME, Oct 8-9, 2001
219. Cardiology Grand Rounds, Hartford Hospital, Hartford, CT, Oct 9, 2001
220. Medicine Grand Rounds, Maine Medical Center, Portland, ME, Oct 10, 2001
221. Medicine Grand Rounds, Northwestern University Medical School, Chicago, IL, Oct 19, 2001
222. Distinguished Lecture Series, Dayton Heart Hospital, Dayton, OH, Jan 23, 2002

223. Medicine Grand Rounds, University of Illinois, Chicago, IL, Feb 28, 2002
224. Sarver Heart Center Scientific Conference, University of Arizona School of Medicine, Tucson, AZ, Apr 5, 2002
225. Cardiology Grand Rounds, Krannert Institute of Cardiology, Indiana University School of Medicine, Indianapolis, IN, June 3, 2002
226. Medicine Grand Rounds, Finch University of the Health Sciences/Chicago Medical School, North Chicago, IL, Aug 7, 2002
227. Heart Center Grand Rounds, Cleveland Clinic Foundation, Cleveland, OH, Nov 1, 2002
228. Medicine Grand Rounds, George Washington Medical Center, Washington, DC, Dec 5, 2002
229. Cardiology Grand Rounds, University of Arkansas Medical Center, Little Rock, AR, Dec 11, 2002
230. Cardiology Grand Rounds, Cedars-Sinai Medical Center, Los Angeles, CA, Jan 21, 2003
231. Cardiology Grand Rounds, University of Southern California, Los Angeles, CA, Jan 21, 2003
232. Cardiology Grand Rounds, University of Chicago, Chicago, IL, Jan 24, 2003
233. Cardiology Grand Rounds, University of Alabama, Birmingham, AL, Jan 29, 2003
234. Cardiology Grand Rounds, University of North Carolina, Chapel Hill, NC, Feb 26, 2003
235. Cardiology Grand Rounds, Cook County Hospital, Chicago, IL, Mar 11, 2003
236. Houston Cardiology Society and American Heart Association, Houston Division, Houston, TX, May 20, 2003
237. Cardiology Grand Rounds, MD Anderson Cancer Center, Houston, TX, May 21, 2003
238. 2003 President's Reception, American Heart Association of Southeastern Pennsylvania, May 28, 2003
239. Cardiology Grand Rounds, Drexel University College of Medicine, June 2, 2003
240. Cardiology Grand Rounds, Johns Hopkins School of Medicine, Baltimore, MD, Nov 19, 2003
241. Preventive Medicine Grand Rounds, Rush-Presbyterian-St. Lukes Medical Center, Chicago, IL, Jan 13, 2004
242. Cardiology Grand Rounds, Michigan Heart Institute, Ann Arbor, MI, Jan 27, 2004
243. Medicine Grand Rounds, Evanston Northwestern Healthcare, Evanston, IL, Feb 13, 2004
244. Cardiology Grand Rounds, Medical College of Wisconsin, Milwaukee, WI, Sep 8, 2004
245. Medicine Grand Rounds, Baylor University Medical Center, Dallas, TX, Sep 14, 2004
246. Cardiology Grand Rounds, Charleston Area Medical Center, Charleston, WV, Oct 20, 2004
247. Cardiology Grand Rounds, Boston University Medical Center, Boston, MA, Oct 27, 2004
248. Cardiac Catheterization Conference Lecture, Washington Hospital Center, Washington, DC, Dec 1, 2004
249. Cardiology / Circulatory Physiology Grand Rounds, Columbia University College of Physicians and Surgeons, New York, NY, Dec 14, 2004
250. Cardiology Grand Rounds, Beth Israel Medical Center, New York, NY, Jan 10, 2005
251. Distinguished Scientist Lecture Series, University of Louisville, Louisville, KY, Jan 19, 2005
252. Cardiology Grand Rounds, Dartmouth-Hitchcock Medical Center, Hanover, NH, Jan 27, 2005
253. Cardiology Grand Rounds, St. Luke's Roosevelt Medical Center, New York, NY, Apr 27, 2005
254. Cardiology Grand Rounds, California Pacific Medical Center, Farnscisco, CA, May 18, 2005
255. Cardiology Grand Rounds, University of Massachusetts Medical Center, Worcester, MA, Nov 17, 2005
256. Cardiology Grand Rounds, Krannert Institute of Cardiology, Indiana University School of Medicine, Indianapolis, IN, Nov 22, 2005
257. Medicine Grand Rounds and Cardiology Grand Rounds, University of Virginia Health Center, Charlottesville, VA, Apr 17-18, 2006
258. Medicine Grand Rounds, Michael Reese Hospital, Chicago, IL, Apr 20, 2006
259. Cardiovascular Lecture Series, Meijer Heart Center, Grand Rapids, MI, May 2, 2006
260. Medicine Grand Rounds, Henry Ford Hospital, Detroit, MI, May 4, 2006
261. Cardiology Grand Rounds, University of California San Francisco, San Francisco, CA, May 17, 2006
262. Medicine Grand Rounds, Baylor College of Medicine, Houston, TX, June 8, 2006
263. Cardiology Grand Rounds, California Pacific Medical Center, Farnscisco, CA, Aug 16, 2006
264. Heart Center Grand Rounds, Cleveland Clinic Foundation, Cleveland, OH, Sep 15, 2006
265. Cardiology Grand Rounds and Medicine Grand Rounds, Brigham and Women's Hospital, Boston, MA, Sep 21-22, 2006
266. Cardiology Grand Rounds and Medicine Grand Rounds, University of Cincinnati College of Medicine, Cincinnati, OH, Sep 27, 2006
267. Cardiology Grand Rounds, University of Wisconsin School of Medicine, Madison, WI, Sep 28, 2006
268. Cardiology Grand Rounds, Paul Wood Lecture, Imperial College, Royal Brompton Hospital, National Heart and Lung Institute, London, UK, Oct 11, 2006
269. Cardiology Grand Rounds, University of Michigan Cardiovascular Center, Ann Arbor, MI, Oct 31, 2006
270. Medicine Grand Rounds, Medical College of Wisconsin, Milwaukee, WI, Nov 3, 2006
271. 25th Annual Jesse E. Edwards Lecture, United Hospitals of St. Paul, St. Paul, MN, Nov 3, 2006
272. Cardiology Grand Rounds, Methodist Hospital, Houston, TX, Dec 7, 2006
273. Cardiology Grand Rounds, University of Texas at Houston, Houston, TX, Dec 7, 2006
274. Medicine Grand Rounds, Baylor University Medical Center, Dallas, TX, Jan 16, 2007
275. Cardiology Grand Rounds, Oregon Health Science University, Portland, OR, Apr 19, 2007
276. Medicine Grand Rounds, St. Louis University School of Medicine, St. Louis, MO, June 1, 2007

277. Medicine Grand Rounds, Tufts-New England Medical Center, Boston, MA, June 15, 2007
278. Cardiovascular Seminar Series, University of Iowa, Iowa City, IA, July 20, 2007
279. Simon Dack, MD, Memorial Lecture, Mt Sinai Medical Center, New York, NY Oct 29, 2007
280. Medicine Grand Rounds, North Shore University Hospital, Manhasset, NY, Nov 15, 2007
281. Cardiology Grand Rounds, Columbia University, New York, NY, Nov 20, 2007
282. Cardiology Divisional Rounds, University of Alberta, Edmonton, AB, Canada, Dec 5, 2007
283. Cardiology Grand Rounds, University of Maryland Medical Center, Baltimore, MD, Jan 17, 2008
284. Cardiology Grand Rounds, University of Pennsylvania School of Medicine, Philadelphia, PA, Feb 21, 2008
285. Cardiology Grand Rounds, Washington Hospital Center, Washington, DC, Mar 4, 2008
286. McClelland Visiting Professor in Cardiovascular Disease Lecture Series, Pacific Medical Center, San Francisco, CA, Apr 10-11, 2008
287. Medicine Grand Rounds, Brown University Alfred School of Medicine, Providence, RI, June 2, 2008
288. Cardiology Grand Rounds and Heart and Vascular Institute Grand Rounds, Penn State University Medical Center, Hershey, PA, August 13-14, 2008
289. Invited Professor Seminar, Laval Hospital Research Center/Quebec Heart Institute, Quebec, ON, Canada, Nov 6, 2008
290. Cardiology Grand Rounds, University of Chicago Medical Center, November 14, 2008
291. Cardiology Grand Rounds, New York University, New York, NY, Jan 9, 2009
292. Cardiology Grand Rounds, Beth Israel Hospital, New York, NY, Jan 26, 2009
293. Cardiology Grand Rounds, St. Lukes-Roosevelt Medical Center, New York, NY, Feb 11, 2009
294. Cardiology Grand Rounds, University of Texas Southwestern, Dallas, TX, May 28, 2009
295. Medicine Grand Rounds and Cardiology Grand Rounds, Virginia Commonwealth University / Medical College of Virginia, Oct 1, 2009
296. Cardiac Surgery Grand Rounds, North Shore University Hospital, Manhasset, NY, Oct 6, 2009
297. Medicine Grand Rounds, Lahey Clinic, Burlington, MA, Nov 6, 2009
298. Cardiology Grand Rounds, Washington University School of Medicine, St. Louis. MO, Feb 17, 2010
299. Medicine Grand Rounds, University of New Mexico School of Medicine, Albuquerque, NM, Feb 25, 2010
300. Cardiology Grand Rounds, Fellows' Distinguished Lecture Series, Johns Hopkins Hospital, Baltimore, MD, March 3, 2010
301. Simon Dack, MD, Memorial Lecture, Mt Sinai Medical Center, New York, NY, May 3, 2010
302. Cardiology Grand Rounds, Winthrop University Hospital, Mineola, NY, May 4, 2010
303. Medicine Grand Rounds, Robert Wood Johnson Medical School, University of Medicine and Dentistry of New Jersey, New Brunswick, NJ, May 5, 2010
304. Medicine Grand Rounds, Stony Brook University Medical Center, Stony Brook, NY, June 9, 2010
305. Cardiology Grand Rounds, University of Pittsburgh Medical Center, Pittsburgh, PA, Sep 14, 2010
306. Medicine Grand Rounds, University of North Carolina School of Medicine, Chapel Hill, NC, Sep 16, 2010
307. Cardiology Grand Rounds, Henry Ford Medical Center, Detroit, MI, Dec 21, 2010
308. Cardiology Grand Rounds, California Pacific Medical Center, San Francisco, CA, March 2, 2011
309. Medicine Grand Rounds, Northwestern University Feinberg School of Medicine, Chicago, IL, May 3, 2011
310. Cardiology Grand Rounds, Case Western Research University School of Medicine, Cleveland, OH, May 26, 2011
311. Regional Cardiology Grand Rounds, McMaster University, Hamilton, ON, Canada, Sep 6, 2011
312. Cardiology Grand Rounds, Vanderbilt University Medical Center, Nashville, TN, Oct 23, 2011
313. Cardiology Grand Rounds, Montefiore Medical Center, New York, NY, Oct 25, 2011
314. Cardiology Grand Rounds, UCLA Geffen School of Medicine, Los Angeles, CA, Nov 18, 2011
315. Medicine Grand Rounds, Weill College of Medicine, Cornell University, New York, NY, Dec 6, 2011
316. Cardiology Grand Rounds, Cedars Sinai Medical Center, Los Angeles, CA, Dec 20, 2011
317. Cardiology Grand Rounds, Columbia University Heart Center, New York, NY, Jan 10, 2012
318. Cardiology Grand Rounds, St. Lukes-Roosevelt Medical Center, New York, NY, Jan 11, 2012
319. Cardiology Grand Rounds, California Pacific Medical Center, San Francisco, CA, Mar 2, 2012
320. Medicine Grand Rounds, University of Colorado Medical Center, Denver, CO, Apr 4, 2012
321. Cardiology Grand Rounds, Guthrie Clinic, Sayre, PA, May 2, 2012
322. Cardiology Grand Rounds, East Carolina Heart Institute, East Carolina University, Greenville, SC, Oct 19, 2012
323. Medicine Grand Rounds, Northwestern University Feinberg School of Medicine, Chicago, IL, Oct 30, 2012
324. Cardiology Grand Rounds, University of South Florida, Tampa, FL, Jan 10, 2013
325. Medicine Grand Rounds, Montefiore/Albert Einstein Medical Center, New York, NY, Jan 24, 2013

Participation in International Meetings

1. International Symposium on Calcium Antagonism in Cardiovascular Therapy, Florence, Italy, Oct 2-4, 1980
2. International Symposium on Diastolic Function of the Heart, Hamburg, West Germany, Sept 22-23, 1982
3. International Workshop on Hypertrophic Obstructive and Nonobstructive Cardiomyopathy, Dusseldorf, West Germany, Dec 3-4, 1982
4. International Symposium on Valvular Heart Disease, German Heart Center, Munich, West Germany, Sept 21-24, 1983
5. Antwerp-LaJolla Research Conference on Cardiac Function: Nonuniformity of Contraction and Relaxation and its Pharmacologic Implications, University of Antwerp, Antwerp, Belgium, July 2-4, 1984
6. International Symposium on Cardiomyopathies, Lisbon, Portugal, Oct 1-3, 1984
7. Symposium on Controversies in Heart Valve Replacement, European Society of Cardiology, Dusseldorf, West Germany, May 1-4, 1985
8. Plenary Session on Valvular Heart Disease, Canadian Cardiovascular Society Annual Meeting, Halifax, Nova Scotia, Oct 23-26, 1985
9. Symposium International de Cardiologie, Hopital Tenon, Paris, France, May 23, 1986
10. International Workshop on Hypertrophic Cardiomyopathy, Badenweiler, West Germany, June 26-28, 1986
11. Consensus Conference on Angina Pectoris, Portuguese Society of Cardiology, Lisbon, Portugal, Oct 25, 1986
12. Symposium on Nuclear Cardiology and Magnetic Resonance Imaging of the Heart, European Society of Cardiology Working Group on Nuclear Cardiology, Edinburgh, Scotland, May 5-6, 1987
13. 6th International Congress on Echocardiography, Rome, Italy, June 23-25, 1988
14. Heart Failure and Diastolic Function: Clinical Approaches to Its Understanding and Treatment, University of Louvain, Brussels, Belgium, Sept 4-6, 1988
15. International Society of Noninvasive Cardiology, Naples, Italy, Oct 4-8, 1988
16. Cardiac Hemodynamics, St. Vincents, Malta, Apr 28-30, 1989
17. New Trends in Cardiomyopathies, Italian Multicenter Cardiomyopathy Study Group, Florence, Italy, June 8-10, 1989
18. International Congress of Cardiology, International Society and Federation of Cardiology, Thessaloniki, Greece, May 29-June 2, 1990
19. International Workshop on Chest Pain with Normal Coronary Arteriography, CNR Institute of Clinical Physiology, Lucca, Italy, Oct 15-16, 1990
20. Frontiers in Heart Failure, University of British Columbia, Whistler, BC, Feb 25-27, 1991
21. 12th National Congress, Associazione Nazionale Medici Cardiologi Ospedalieri, Florence, Italy, June 3-6, 1991
22. Italian Society of Sports Cardiology, 5th National Meeting, Rome, Italy, Sept 19-21, 1991
23. Cardiologia Nucleare 1991, Italian Nuclear Cardiology Group, Gubbio, Italy, October 28-31, 1991
24. XIV Congress of the International Society for Heart Research, Kobe, Japan, May 10-14, 1992
25. Symposium on Nuclear Cardiology, Cesena, Italy, May 28-29, 1992
26. International Symposium on Ischemic Heart Disease, Favalaro Foundation, Buenos Aires, Argentina, June 15-19, 1992
27. Left Ventricular Dysfunction, Stunning, and Hibernation, International Society and World Federation of Cardiology, Venice, Italy, Nov 7, 1992
28. 8th International Congress on Echocardiography, Rome, Italy, Feb 3-6, 1993
29. First International Congress of Nuclear Cardiology, Cannes, France, Apr 25-28, 1993
30. Second International Symposium on Advances in Cardiology, Ravenna, Italy, May 26-28, 1993
31. 15th European Congress of Cardiology, Nice, France, Aug 29-Sept 2, 1993
32. 4th International Conference on Noninvasive Cardiology, Limassol, Cyprus, Oct 11-14, 1993
33. Prostacyclin: Basic Principles and Clinical Application, University of Bologna and Northwestern University Medical School, Bologna, Italy, Nov 20, 1993
34. XV Congress of the Sao Paulo State Society of Cardiology, Ribeirao Preto, Brazil, June 2-4, 1994
35. Controversies in Ischemic Heart Failure, Instituto do Coracao and Portuguese Society of Cardiology, Lisbon, Portugal, June 17, 1994
36. 16th European Congress of Cardiology, Berlin, Germany, Sept 10-15, 1994
37. Iberoamerican Symposium on Nuclear Cardiology, Pucon, Chile, October 2-5, 1994
38. Left Ventricular Function in Valvular Heart Disease, Working Group on Valvular Heart Disease, European Society of Cardiology, London, UK, Mar 30-Apr 1, 1995
39. Heart Failure '95, Working Group on Heart Failure, European Society of Cardiology, Amsterdam, Netherlands, Apr 2-5, 1995
40. Second International Conference on Nuclear Cardiology, Cannes, France, Apr 23-26, 1995
41. Nuclear Medicine Symposium, University of Munich, Munich Germany, Oct 15-16, 1995
42. 15th Interamerican Congress of Cardiology, Santiago, Chile, Dec 6-9, 1992
43. 21st Annual New Town Conference, Kobe, Japan, Feb 17, 1996
44. International Cardiovascular Symposium, Dominican Society of Cardiology, Santo Domingo, Dominican Republic, Feb 23-24, 1996
45. 17th Congress of the Portuguese Society of Cardiology, Vilamoura, Portugal, Apr 21-24, 1996
46. Nuclear Cardiology 1996: Role in Clinical Decision Making, Cesena, Italy, May 23-25, 1996
47. 4th World Congress on Heart Failure: Mechanisms and Management, International Society of Heart Failure, Jerusalem, Israel, May 26-29, 1996
48. 6th World Congress of Cardiac Rehabilitation, International

- Society and Federation of Cardiology, Buenos Aires, Argentina, June 16-20, 1996
49. 2nd Iberoamerican Symposium on Nuclear Cardiology, Pucon, Chile, October 14-16, 1996
 50. 33rd Annual Congress, Chilean Society of Cardiology and Cardiac Surgery, Valdivia, Chile, Dec 5-7, 1996
 51. 9th International Congress on Echocardiography, Rome, Italy, Feb 5-8, 1997
 52. 3rd International Congress on Nuclear Cardiology, Florence, Italy, Apr 6-9, 1997
 53. 5th World Congress on Heart Failure: Mechanisms and Management, International Society of Heart Failure, Washington, DC, May 11-14, 1997
 54. 19th Congress of the European Society of Cardiology, Stockholm, Sweden, Aug 24-28, 1997
 55. 13th Uruguayan Congress of Cardiology, Montevideo, Uruguay, Dec 3-6, 1997
 56. 13th World Congress of Cardiology, Rio de Janeiro, Brazil, Apr 26-30, 1998
 57. Mexican Society of Cardiology, Mexico City, Mexico, Sep 5, 1998
 58. Symposium on Myocardial Ischemia, Fundacion Ramon Areces, Madrid, Spain, Jan 28-29, 1999
 59. 4th International Congress on Nuclear Cardiology, Athens, Greece, Apr 18-21, 1999
 60. Cardiologia 2000, Cardiologia Ospedaliera Policlinico de Bari, Ostuni, Italy, May 6, 1999
 61. Renaissance Perspectives in Nuclear Cardiology, Monteregioni, Italy, July 12-15, 1999
 62. 21st Congress of the European Society of Cardiology, Barcelona, Spain, Aug 28-Sep 1, 1999
 63. 54th Congress of the Brazilian Society of Cardiology, Recife, Brazil, Sep 19-22, 1999
 64. Guidelines on Valvular Heart Disease: Face-to-Face Discussion With the Experts. Genova, Italy, Oct 9, 1999
 65. 21st National Congress, Mexican Society of Cardiology, Guadalajara, Mexico, Oct 17-21, 1999
 66. Management of Acute Coronary Syndromes, University of Bologna, Bologna, Italy, Nov 20, 1999
 67. European Cardiovascular Summit, The Hague, Netherlands, Jan 30-Feb 2, 2000
 68. 64th Annual Meeting, Japanese Circulation Society, Osaka, Japan, Apr 1-3, 2000
 69. Cardiologia 2000, Cardiologia Ospedaliera Policlinico de Bari, Ostuni, Italy, May 12-13, 2000
 70. Annual Congress, Swiss Society of Cardiology, Lausanne, Switzerland, May 17-19, 2000
 71. Nuclear Cardiology Today, Cesena, Italy, May 25-27, 2000
 72. Chronic Heart Failure in the Elderly, Fondazione Salvatore Maugeri, Telesse Terme, Italy, June 12-13, 2000
 73. Heart Failure 2000, European Society of Cardiology, Venice, Italy, June 23-25, 2000
 74. 22nd Congress of the European Society of Cardiology, Amsterdam, Netherlands, Aug 22-26, 2000
 75. 75th Annual Meeting, Japanese Circulation Society, Kyoto, Japan, Mar 25-27, 2001
 76. 5th International Congress on Nuclear Cardiology, Vienna, Austria, May 3-6, 2001
 77. Cardiologia 2001, Cardiologia Ospedaliera Policlinico de Bari, Ostuni, Italy, May 11-12, 2001
 78. Cardiologia e Pneumologia, University of Rome La Sapienza, Rome, Italy, May 25-26, 2001
 79. Stages in the Evolution of Chronic Heart Failure, Fondazione Salvatore Maugeri, Telesse Terme, Italy, June 15-16, 2001
 80. 23rd Congress of the European Society of Cardiology, Stockholm, Sweden, Sep 1-5, 2001
 81. Guidelines on the Management of Patients with Valvular Heart Disease, Spineto, Italy, April 11-13, 2002
 82. XIV World Congress of Cardiology, Sydney, Australia, May 5-9, 2002
 83. X International Symposium on Ischemic Heart Disease, Spanish Society of Cardiology, Bilbao, Spain, May 22-24, 2002
 84. Scopenso Cardiaco Cronico e Multipatologia, Fondazione Salvatore Maugeri, Telesse Terme, Italy, June 26-28, 2002
 85. 24th Congress of the European Society of Cardiology, Berlin, Germany, Aug 31-Sep 4, 2002
 86. Annual Scientific Meeting, Korean Society of Circulation, Seoul, Korea, Oct 10-11, 2002
 87. 63rd Annual Congress, Italian Society of Cardiology, Rome, Italy, Dec 14-18, 2002
 88. Interamerican Forum on Cardiovascular Prevention and Rehabilitation, Interamerican Society of Cardiology, Buenos Aires, Argentina, May 1-4, 2003
 89. International Meeting on Aging and Cardiovascular Research, University of Naples and Fondazione Salvatore Maugeri, Naples, Italy, June 16-17, 2003
 90. 25th Congress of the European Society of Cardiology, Vienna, Austria, Aug 30-Sep 3, 2003
 91. Cardiologia 2003, Cardiologia Ospedaliera Policlinico de Bari, Ostuni, Italy, Oct 10-11, 2003
 92. 19th Congress of the Uruguayan Society of Cardiology, Montevideo, Uruguay, Nov 29-Dec 2, 2003
 93. 25th Portuguese Congress of Cardiology, Vilamoura, Portugal, March 27-31, 2004
 94. 19th International Meeting on Clinical Cardiology, The Hellenic Heart Foundation, Athens, Greece, April 15-17, 2004
 95. International Meeting on Acute Heart Failure Syndromes, Cannes, France, May 1-2, 2004
 96. 35th National Congress, Associazione Nazionale Medici Cardiologi Ospedalieri, Florence, Italy, May 22-26, 2004
 97. 26th Congress of the European Society of Cardiology, Munich, Germany, Aug 28-Sep 1, 2004
 98. Acute Heart Failure Syndromes, 2nd International Meeting, Cannes, France, April 2-3, 2005
 99. Cardiopulmonary Imaging: Ischemic Heart Disease, University of Rome, Fondazione Internazionale Menarini, Rome, Italy, May 6-7, 2005
 100. 7th International Congress on Nuclear Cardiology, Lisbon, Portugal, May 8-11, 2005
 101. Update in Cardiology 2005, Clinico Montevergine, Naples, Italy, June 23-24, 2005
 102. European Society of Cardiology Congress 2005, Stockholm, Sweden, Sep 4-7, 2005

103. Myocardial Stunning and Hibernation, Swedish Heart Association and Lund University, Lund Sweden, Feb 3, 2006
104. Japanese Society of Nuclear Cardiology, Nagoya, Japan, March 23, 2006
105. 70th Anniversary of Japanese Circulation Society Annual Meeting, Nagoya, Japan, March 24-26, 2006
106. Antithrombotic Issues in Acute and Chronic Cardiovascular Disease, Madrid Medical College, Madrid, Spain, June 4-6, 2006
107. Update in Cardiology 2006, Clinico Montevergine, Naples, Italy, June 19-20, 2006
108. 15th World Congress of Cardiology and European Society of Cardiology Congress 2006, Barcelona, Spain, Sep 2-6, 2006
109. X International Congress on Echocardiography and Cardiovascular Imaging, Rome, Italy, Oct 19-21, 2006
110. MITRALE II, Istituto Scientifico Universitario San Raffaele, Milan, Italy, Oct 26-28, 2006
111. European Society of Cardiology Congress 2007, Vienna, Austria, Sept 1-5, 2007
112. Imaging in Heart Failure, European Association of Echocardiography, Venice, Italy, Sept 14-15, 2007
113. Ischemic Heart Disease: 40 Years After Coronary Bypass Surgery and 30 Years After Coronary Angioplasty. Favalaro Foundation, Buenos Aires, Argentina, Oct 13-15, 2007
114. 68th National Meeting, Italian Society of Cardiology, Rome, Italy, Dec 15-18, 2007
115. Hormones and Heart Failure, University of Naples Federico II, Naples, Italy, Apr 18, 2008
116. World Congress of Cardiology, World Heart Federation, Buenos Aires, Argentina, May 18-21, 2008
117. 5th International Meeting on Acute Heart Failure Syndromes, Stresa, Italy, June 18-19, 2008
118. European Society of Cardiology Congress 2008, Munich, Germany, Aug 30-Sep 3, 2008
119. 60th Annual Meeting, Cardiological Society of India, Chennai, India, Dec 4-7, 2008
120. 69th National Meeting, Italian Society of Cardiology, Rome, Italy, Dec 13-16, 2008
121. International Summit on Ischemic Heart Disease, Università degli Studi di Pisa, Pisa, Italy, June 19-21, 2009
122. 5th Biennial Meeting, Society for Heart Valve Disease, Berlin, Germany, June 27-29, 2009
123. 57th Annual Scientific Meeting, Cardiac Society of Australia and New Zealand, Sydney, Australia, Aug 13-16, 2009
124. European Society of Cardiology Congress 2009, Barcelona, Spain, Aug 29-Sep 2, 2009
125. 20th Annual Great Wall International Congress of Cardiology, Beijing, China, Oct 9-12, 2009
126. What You Need to Know About Cardiovascular Research, National Center for Cardiovascular Research and Spanish Society of Cardiology, Barcelona, Spain, Oct 22, 2009
127. 70th National Meeting, Italian Society of Cardiology, Rome, Italy, Dec 12-15, 2009
128. Valvular Heart Disease Update, Magdi Yacoub Foundation, Aswan, Egypt, Jan 7-9, 2010
129. Second International Cardioevent: Cardiology Towards the Future, University of Florence, Florence, Italy, Jan 21-23, 2010
130. 57th Annual Congress, Israel Heart Society, Tel Aviv, Israel, Apr 14-16, 2010
131. 41st National Congress, Associazione Nazionale Medici Cardiologi Ospedalieri, Florence, Italy, May 19-22, 2010
132. Chinese Atherosclerosis Risk Evaluation (CARE) Symposium, University of Washington and Tsinghua University, Beijing, China, June 16-17, 2010
133. World Congress of Cardiology, World Heart Federation, Beijing, China, June 16- 19, 2010
134. IX International Congress of Cardiology, Instituto del Corazon San Pablo, Lima, Peru, Aug 28-21, 2010
135. European Society of Cardiology Congress 2010, Barcelona, Spain, Aug 28-Sep 1, 2010
136. XXIV South American Congress of Cardiology, South American Society of Cardiology, Montevideo, Uruguay, Sep 23-26, 2010
137. What You Need to Know About Cardiovascular Research, National Center for Cardiovascular Research and Spanish Society of Cardiology, Valencia, Spain, Oct 22, 2010
138. 31st Panhellenic Congress of Cardiology, Athens, Greece, Oct 21-23, 2010
139. Qatar Cardiovascular Research Center Symposium, Qatar Foundation and Cornell University Weill College of Medicine Qatar, Doha, Qatar, Dec 14, 2010
140. ACC Delhi International Symposium, American College of Cardiology, Delhi, India, Feb 12-13, 2011
141. XXIII Interamerican Congress of Cardiology, Cartagena, Colombia, Mar 10-12, 2011
142. New Zealand Annual Meeting, Cardiac Society of Australia and New Zealand, Hastings, New Zealand, June 10-12, 2011
143. 2nd International Summit on Ischemic Heart Disease, Università degli Studi di Pisa, Pisa, Italy, June 17-19, 2011
144. 6th Biennial Meeting, Society for Heart Valve Disease, Barcelona, Spain, June 25-28, 2011
145. European Society of Cardiology Congress 2011, Paris, France, Aug 27-31, 2011
146. Update in Cardiology: From Prevention to Improving Outcomes, Biblioteca San Domenico Ospedale SS Giovanni e Paolo, Venice, Italy, Oct 8, 2011
147. Venice Arrhythmias 2011, Azienda ULSS Venziana, Venice, Italy, Oct 9-12, 2011
148. The Heart of Magna Graecia, Università Magna Graecia, Catanzaro, Italy, Oct 28-29, 2011
149. ACC Cardiovascular Symposium India, American College of Cardiology, Delhi, India, Jan 28-29, 2012
150. Milan Cardiology, Istituto Scientifico Universitario San Raffaele, Milan, Italy, February 16-18, 2012
151. Options for Myocardial Revascularization, Qatar Heart Science Series, Qatar Cardiovascular Research Center, Doha, Qatar, Feb 25-26, 2012
152. 3rd Congresso Cardio-IFC, Institute of Clinical Physiology (IFC), Consiglio Nazionale della Ricerche (CNR), Pisa, Italy Mar 29-31, 2012

153. World Congress of Cardiology, World Heart Federation, Beijing, China, April 18-21, 2012
154. The Aortic Valve and Root, from Developmental Biology to TAVI, Qatar Heart Science Series, Qatar Cardiovascular Research Center, Doha, Qatar, May 12-13, 2012
155. Complex Decision Making in Cardiovascular Diseases, Pontificia Universidad Catolica de Chile, Santiago, Chile, June 6-8, 2012
156. XXV South American Congress of Cardiology, South American Society of Cardiology, Asuncion, Paraguay, Aug 15-18, 2012
157. European Society of Cardiology Congress 2012, Munich, Germany, Aug 25-29, 2012
158. II Florence International Symposium on Advances in Cardiomyopathies, University of Florence, Sep 26-28, 2012
159. 2nd Einstein International Symposium for Minimally Invasive Cardiothoracic Surgery, Hospital Israelita Albert Einstein, São Paulo, Brazil, Oct 4-6, 2012
160. Qatar Foundation Annual Research Forum, Doha, Qatar, Oct 21-23, 2012
161. Imaging the Future: The Future of Cardiovascular Imaging, University of Rome La Sapienza, Venice, Italy, November 16-18, 2012
162. Cardiovascular Clinical Trials (CVCT) Workshop, Université de Lorraine, Inserm, EMEA, FDA, NHLBI, ESC, Paris, France (by teleconference)
163. ACCF Cardiovascular Symposium India, American College of Cardiology, Mumbai, India, Jan 19-20, 2013