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Curriculum Vitae

Joseph R. Carver, M.D.

Home Address: 212 Gaskill St
Philadelphia, PA. 19147

Current Position Chief Operating Officer
Abramson Family Cancer Research Institute
At the University of Pennsylvania Cancer Center
Chief of Staff, Abramson Cancer Center
Director, Cardio-oncology

Office Address: PCAM 4-172 CMS
3400 Civic Center Blvd
Philadelphia, PA 19104
(215) 662-3963
(215) 662-4020 [fax]
jrc@mail.med.upenn.edu

Citizenship: U.S.A.

Date of Birth: March 4, 1947

Marital Status: Married (6/69), Peggy A Savitt
Son, Hank (3/72)
Daughters, Amy (3/74) and Patty (1/76)

Education:
1957-64 Akiba Hebrew Academy, Merion PA.
1964-68 A.B. (Psychology) Temple University, Philadelphia, PA.
1968-72 M.D. Hahnemann University, Philadelphia, PA.

Postgraduate Training:
1972-73 Intern-in-Internal Medicine, Hahnemann University,
Philadelphia, PA.
1973-75 Resident-in-Internal Medicine, Hahnemann University,
Philadelphia, PA.
1975-77 Fellow-in-Cardiology, Hahnemann University
Philadelphia, PA.

Employment:
1977-92 Cardiology Private Practice, Philadelphia , Pa
1992- 2001 Corporate Medical Director, Patient Management
Aetna U.S. Healthcare, Inc. Blue Bell, PA.

Academic Appointments:
Hahnemann University, Philadelphia, PA.
1977-84 Assistant Professor of Medicine,

1984- 2001 Associate Professor of Clinical Medicine
University of Pennsylvania, School of Medicine, Philadelphia, PA.
1995-2003 Adjunct Professor of Medicine
2003- Clinical Professor of Medicine
2014- Bernard Fishman Clinical Professor of Medicine at the
Abramson Cancer Center of the University of Pennsylvania
(Cardio-oncology)

Staff Appointments:

2001- Hospital of the University of Pennsylvania
1977-2002 Hahnemann University Hospital, Philadelphia, PA.
1976-92 Jeanes Hospital, Philadelphia, PA.
1979-92 American Oncologic Hospital, Philadelphia, PA.
1977-86 West Park Hospital, Philadelphia, PA.

Administrative Appointments:

Hahnemann University Hospital, Philadelphia, PA.
1976-83 Course Director, Core III Cardiology
1983-94 Course Director, Introduction to Clinical Medicine (Cardiology)
1983-89 Course Director, Junior Didactic Sessions
Jeanes Hospital, Philadelphia, PA.
1985-92 Division Director, Cardiology
1985-92 Cardiac Rehabilitation, Director

Military: None

Certifications:

1973 National Board of Medical Examiners
1975 American Board of Internal Medicine
1977 Cardiovascular Subspecialty Board of the American
Board of Internal Medicine

Licensure:

1973- Pennsylvania (MD 014241E)
1973- New Jersey (28255)

Awards, Honors:

Hahnemann University Hospital, Philadelphia, PA:
1982 Core III Teaching Award
1983 Teaching Award, Introduction to Clinical Medicine
1991 Teaching Award, Medical Residents
American Medical Association:
1979 Physician's Recognition Award
1983 Physician's Recognition Award
1986 Physician's Recognition Award
1989 Physician's Recognition Award
1992 Physician's Recognition Award
1996 Physician's Recognition Award

Other:

1985	Annual Teaching Award, American Heart Association
2005	Cardiology Distinguished Teacher Award, University of Pennsylvania
2006-	<i>Best doctors in America</i>
2011	Top Docs in Philadelphia
2012	I.S. Ravdin Master Clinician Award, University of Pennsylvania

Membership in Professional and Scientific Societies:

National

American College of Cardiology, Fellow
 American Heart Association

Consultant:

1985-92	Medtronic Medical Advisory Board, Member
1987-92	Medtronic Advisory Board, Chairman
1988-90	American Heart Association, SEPA. Chapter CME Committee
1992-97	Medical Education Collaborative: Chairman, Medical Advisory Committee
2001-2006	Health Benchmarks, Inc: Chair, Clinical Advisory Group
2002-	ITA Partners, Sr. Clinical Advisor

Editorial Board:

1985-91	<u>Practical Cardiology</u>
1989-	<u>Journal of Invasive Cardiology</u>
1993-95	<u>Medical Directions</u>
1995-2002	<u>American Journal of Managed Care</u> , Founding Editor
1997-2000	<u>Journal of Disease Management</u>

Institutional Committees:

Hahnemann University Hospital

1979-82	Core II Curriculum Committee
1978-83	Core III Curriculum Committee
1983	Core III Promotion Committee
1983-88	Curriculum Committee, Department of Medicine
1983-	Curriculum Committee, Introduction to Clinical Medicine
1983-92	Cardiology Fellowship Training Committee, CVI
1978-87	Hahnemann Physician's Society, Secretary
1985-90	Curriculum Committee, Department of Medicine
1987-92	Residency Committee, Department of Medicine
1987-92	Service Chief, Cardiology

Jeanes Hospital

1977-85	ICU-CCU Committee, Member
1982-84	Central Monitoring Committee, Member
1982- 90	Medical Executive Committee, Member

1990- 91	Vice President, Medical Staff
1982-83	Continuing Education Committee, Member
1985- 92	ICU-CCU Committee, Chairman
1985- 92	Scientific Research Committee, Chairman
1985- 88	Medical Rehabilitation Advisory Board, Member

Research Activities:

1982-85	Myocardial Infarction Registry, Director, Jeanes Hospital, Philadelphia, PA.
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Principal Investigator, Jeanes Hospital, Philadelphia, PA:

1982	Low Dose Amiodarone in Ventricular Arrhythmias Post Myocardial Infarction
1983-84	Propranolol vs. Sotalol Post Myocardial Infarction,
1984-85	TEST: Timolol, Encainide, Sotalol Trial
1984-86	Quiniday, Quinidine, Procan-SR: A Comparison in Complex Ventricular Ectopy
1984-85	Bepidil vs. Diltiazem for the Treatment of Ventricular Ectopy in the Patient with Coronary Heart Disease
1984-85	Ethmozine Post Myocardial Infarction Trial
1985	Encainide in Chronic Atrial Fibrillation
1985	Sotalol vs. Propranolol for the Treatment of Chronic Ventricular Ectopy
1985-86	Flecainide vs. Tocainide for the Treatment of Chronic Ventricular Ectopy
1985	Corwin in the Management of Congestive Heart Failure
1986-87	Flecainide vs. Mexiletine for the Treatment of Chronic Ventricular Ectopy
1987-90	CAST: Coronary Arrhythmia Suppression Trial
1987-88	Comparative Efficacy and Safety of Quinapril for the Treatment of Congestive Heart Failure
1987-88	Placebo Controlled Trial of Atenolol in Silent Ischemia Following an Acute Myocardial Infarction 1988
	Comparative Efficacy of Nitroglycerin patches
1988	Nisoldipine in Chronic Stable Angina
1988	Recainam vs. Placebo in the Treatment of Chronic Ventricular Ectopy
1989-90	Efficacy of Oral Milrinone vs. Placebo in Congestive Heart Failure Patients
1989-90	Survival Study of Oral Milrinone in Patients with Severe Heart Failure (PROMISE)
1989-90	Efficacy of Oral Milrinone in Addition to Diuretic Therapy and Captopril in Congestive Heart Failure
1989-91	Efficacy and Safety of Core Coat Nisoldipine in Patients with Exertional Angina
1989-90	Pilot Study Comparing the Onset and Duration of

1991	Antianginal Activity of Modified Transdermal Nitroglycerin in Patients with Coronary Artery Disease Autolysis Time as a Measure and Predictor of Tissue Plasminogen Activator Thrombolysis in Acute Myocardial Infarction
1991-92	Cholesterol & Recurrent Events (CARE)
1991-92	Global Utilization of Streptokinase and T-Pa (GUSTO)
1991- 92	Prospective Randomized Flosequinan Longevity Evaluation (PROFILE)
1991- 92	Oral Ipazilide in Patients with Symptomatic Supraventricular Tachyarrhythmias
1991- 92	Efficacy and Safety of Oral Zatebridine in Patients with Chronic Stable Angina
1992- 92	Clopidogrel vs. Aspirin in Patients at Risk of Ischemic Events (CAPRIE)

Principal Investigator Hahnemann University Hospital, Philadelphia, PA:

1979-81	Nifedipine in the Treatment of Refractory Angina (Co-Investigator)
1982-83	Amrinone in the Treatment of Refractory Congestive Heart Failure
1989-90	Nifedipine GITS and Silent Ischemia

U.S. Healthcare:

1994-95	PROSPECTS: Pacing Wire Rationale in Open Heart Surgery: Prospective, Efficacy, Complication Tabulation Study. Principal Investigator, Study Coordinator
1994-	Outpatient Heparinization and Oral Anticoagulation Following Intracoronary Stenting: A Pilot Study. Co-Investigator

Aetna U.S. Healthcare:

2000-2001	STICH: Surgical Treatment for Ischemic Heart Failure. Executive Committee
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University of Pennsylvania

2001-2003	STICH-Co-Investigator
2003	R11: Detecting subclinical atherosclerosis (SCA) in testicular cancer survivors-Collaborator.
2008-	Early prediction and detection of chemotherapy-Induced cardiotoxicity in breast cancer patients

Community Activity:

Synagogue(s):

1981-84 Board of Directors, Temple Beth Hillel, Wynnewood, PA.
1991-97, 2004-5 Board of Directors, Har Zion Temple, Penn Valley, PA.
2005- Board of Trustees, Har Zion Temple, Penn Valley, PA
2007-2008 President, Har Zion Temple, Penn Valley, PA

Federation of Jewish Agencies, Philadelphia, PA:

1984-87 Young Medical Professionals, Chairman
1985-87 Young Leadership Council Cabinet, Member
1985- 88 National Young Leadership Cabinet, United Jewish Appeal, New York, New York

1985-89, 91-94
1995- Board of Trustees
1995-98 Executive Committee
1986-90 Physician's Division, Chairman
1986-87 Campaign Co-Chairman, Young Leadership Council 1986-
Chai Society
1986-93 Project Renewal Consultative Committee 1994-
Chairperson, Project Renewal Consultative Committee
1986-87 Mobilization Day Executive Committee

1987 Super Sunday Training Co-Chairman
1987-89 Chairman, Committee on Community Outreach
1989-93 Chairman, Rambam Society
1990- Coordinator: Operation Jacob, FAJA/Hahneman University
1991-94 Advisor, Physician's Division
1994-95 Co-Chairman: President's Washington Mission
1993-95 Chairman, Project Renewal
1995-97 Chairman, Israel Operations
1999-2006 Chairman, Task Force on Poverty

Akiba Hebrew Academy, Merion, PA:

1985-95 Board of Directors
1987- 95 Chairman, Development Committee
1988, 1990 Co-Chairman, Annual Concert
1989-95 Vice President
1989-90 Chairman, Alumni Annual Giving
1992-94 Chairman: 50/50 Club
1995- 98 President

Soviet Jewry:

1986-93 Board of Directors: Soviet Jewry Council, Philadelphia, PA
1986- 92 Member: International Physician's Commission for the
Protection of the Prisoners, Chicago, Ill.,
1987-92 Co-Chairman

1988 Co-Chairman: Silent No More Tribute Calendar,
Soviet Jewry Council, Phila., PA.

Other Groups:

1985-95 American Israel Public Affairs Committee, Washington, DC.
1988-94 JCRC Speakers Bureau, Philadelphia, PA.
1994-2004 Board of Overseers: Nursing School of University of PA,
Philadelphia, PA. 1996- Chairman, Myers Health Annex
Oversight Committee
Penn Nursing Network, School of Nursing of University
Of Pennsylvania, Phila, PA.
1997-2004 Financial Oversight Group for Practice: Penn Nursing Network,
School Of Nursing, University of Pennsylvania, Phila, PA.
1995-97 Board of Governors of the American Heart Association:
(AHA) Southeastern PA Affiliate, Conshohocken, PA.
199-2001 Private Sector Relations Committee: National AHA
1999-2002 Board of Directors: Mindsense, Petach Tikvah, Israel.
1999- Vice- President, OROT, Elkins Park, PA
2012- C0-chair
2001-2006 Board of Directors: Gamida Cell, Inc. Tel Aviv, Israel
2005 American Society of Clinical Oncology: Survivors Guidelines
Taskforce

Visiting Lectures and Seminars:

Passaic General Hospital, Passaic, New Jersey
4/1980 New Concepts in Refractory Congestive Heart Failure
9/1981 Pericarditis: Approach to Acute and Chronic Disease
3/1983 Infarction Size: How to Limit Injury in Acute MI
5/1984 Syncope: Approach and Management
2/1985 Sudden Death: The High Risk Patient
2/1986 New Concepts in Myocardial Infarction Management
2/1987 Diagnosis and Treatment of Cardiomyopathy
6/1988 New Concepts in Pericardial Disease
Wilkes Barre VA Hospital, Wilkes Barre, PA
1/1980 Management of the Patient with Acute MI
5/1982 Ventricular Arrhythmias- Who to Treat
11/1990 Cholesterol and CAD
5/1991 LVH and its Consequences
Sacred Heart Hospital, Norristown, PA
5/1983 Cardiac Rehabilitation after Myocardial Infarction
Germantown Hospital, Philadelphia, PA
1/1983 Sudden Death- Approach and Management
12/1987 Calcium Blockers in Hypertension
Frankford Hospital, Philadelphia, PA
7/1984 Sudden Death- Approach and Management
4/1985 Stress and Sudden Death

12/1985	New Antiarrhythmic Agents
3/1986	ACE Inhibition in the Treatment of Hypertension
2/1987	Calcium Blockers in Coronary Artery Disease
3/1988	New Approaches to the Treatment of Angina
10/1988	New Concepts in Ischemic Heart Disease
1/1990	Ischemic Left Ventricular Dysfunction
Nazareth Hospital, Philadelphia, PA	
10/1985	ACE Inhibition in the Treatment of Hypertension
12/1985	New Approaches to Antiarrhythmic Therapy
11/1988	Thrombolytic Therapy of Acute Myocardial Infarction
3/1989	Silent Myocardial Ischemia
9/1989	Ischemic Left Ventricular Dysfunction
2/1991	Nitrates in the 90's
Binghamton Community Hospital, Binghamton, New York	
4/1988	Hypercholesterolemia: Diagnosis and Treatment
Vineland Hospital, Vineland, New Jersey	
4/1988	Treatment of Ventricular Arrhythmias
10/1990	Nitrates in the 90's
Walkill Valley Hospital, Sussex New Jersey	
4/1988	New Antiarrhythmic Agents
Newton Community Hospital, Newton, New Jersey	
5/1988	Type 1C Antiarrhythmic Agents
Freehold Community Hospital, Freehold, New Jersey	
12/1985	ACE inhibition in the Treatment of Hypertension
Philadelphia Geriatric Center, Philadelphia, PA	
3/1986	Hypertension and the Elderly: Treatment Approach
4/1989	Calcium Blockers and Hypertension
9/1989	CAD, 1989: The World is Changing
Saint Mary Hospital, Langhorne, PA	
2/1987	ACE Inhibition in the Treatment of Hypertension
1/1991	New Antihypertensive Agents
1/1992	Hypertension in the Elderly
Delaware County Hospital, Upper Darby, PA	
5/1986	Current Concepts in Anginal Therapy
Helene Fuld Medical Center, Trenton, New Jersey	
1/1986	Hypertension Management in the Elderly
Easton Hospital, Easton, Pa.	
11/1988	New Concepts in Silent Myocardial Ischemia
8/1995	Improving the Efficiency of Medical Practice
Hahnemann University Continuing Education, Philadelphia, PA	
1/1980	Current Concepts in Cardiovascular Disease
	Volendam Cruise Ship (20 hours)
2/1985	The Diagnosis and Management of Acute Myocardial Infarction, Newport Clipper Cruise Ship (18 hours)
Pennsylvania Society of Physicians Assistants, Philadelphia, PA	
3/1986	Life Threatening Ventricular Arrhythmias
2/1992	Chest Pain: CAD and Masqueraders
Berks County Medical Society	

2/1988 Management and Recognition of Resistant Hypertension
 Pennsylvania Society for Respiratory Care: 23rd Annual Meeting
 4/1988 Thrombolytic Therapy
 International Medical Education Corporation, Medtronic Inc, Minneapolis, MN
 Arrhythmias and Cardiac Ischemia
 10/1982 Las Vegas, Nevada
 4/1983 Williamsburg, Virginia
 ECG Interpretation and Arrhythmia Management
 9/1983 Atlantic City, New Jersey
 9/1984 Las Vegas, Nevada
 12/1984 Cancun, Mexico
 11/1985 Ft. Lauderdale, Florida
 Advanced Cardiovascular Diagnostic and Therapeutic Methods
 10/1984 Philadelphia, PA
 2/1984 Los Angeles, California
 The Diagnosis and Management of the Acute MI
 5/1984 Atlantic City, New Jersey
 8/1984 Atlantic City, New Jersey
 5/1985 Las Vegas, Nevada
 Cardiovascular Disease: Noninvasive Diagnostic Methods
 12/1983 Ft. Lauderdale, Florida
 1/1984 Orlando, Florida
 4/1984 Denver, Colorado
 6/1984 Las Vegas, Nevada
 10/1984 Washington, D.C.
 Risk Factor Management and Coronary Heart Disease
 2/1986 Maui, Hawaii
 Medical Education Collaborative, Englewood, Colorado
 Case Studies in ECG Interpretation and Arrhythmia Management
 6/1988 Orlando, Fla.
 9/1988 Las Vegas, Nevada
 6/1990 Atlantic City, New Jersey
 5/1991 Las Vegas, Nevada
 2/1992 Atlantic City, New Jersey
 Update in Clinical Cardiology for the Primary Physician
 1/1989 St. Thomas, VI
 Exercise and Ischemic Heart Disease
 9/1991 San Francisco, California
 Controversies in Gynecology: A Managed Care Perspective- Preparing for
 Capitation
 6/1994 Washington, DC
 7/1994 Napa, CA
 Gynecology In The '90s: The New Era Of Managed Care
 3/1995 St. Thomas, U.S. VI
 Urology: The Future: Preparing For Capitation
 5/1995 Captiva, Florida
 National Medical Director Leadership Conference: Disease Management
 6/1995 New York, NY

University of Santo Thomas School of Medicine Scientific Seminar, Atlantic City, NJ
4/1987 Recognition and Treatment of Life Threatening Arrhythmias

Camden County Association of Pharmacists and Pharmacies
9/1987 New Antiarrhythmic Agents

Cardiology Update: Hahnemann University, Philadelphia, Pa.
6/1983 Pregnancy and Heart Disease
11/1984 Cardiovascular Effects of Psychotropic Agents
2/1985 Premature Coronary Artery Disease
3/1986 Malignant Arrhythmias in Mitral Valve Prolapse
4/1987 Approach to Noncardiac Surgery in the Patient with CAD
4/1989 Endocarditis: Medical Management, 1989
10/1989 Metastatic Tumors to the Heart
2/1990 Pericardial Disease
9/1991 Cardiac Risk Assessment in Non-Cardiac Surgery
11/1991 HDL Cholesterol: The Protective Effect
3/1994 Cardiology in a Managed Care Environment

Metropolitan Hospital, Philadelphia, PA
3/1987 Use of Calcium Blockers in the Treatment of Angina

Medical Education Resources, Littleton, Colorado (2.5 day seminars)
Arrhythmias: Interpretation, Diagnosis, and Management
7/1987 Montreal, Canada
5/1988 Boston, Massachusetts

American Academy of Family Physicians, Trenton, New Jersey
1/1989 Approach to Ventricular Arrhythmias

New Jersey Medicaid Advisory Council, Trenton, New Jersey
2/1989 Cholesterol Screening and Management

County Medical Society, Shelbyville, Indiana
2/1989 Cholesterol and Coronary Disease-Reducing the Risk

Guthrie Clinic Grand Rounds, Sayre, Pa.
3/1989 New Concepts in Angina: The Changing World

Duvall Health Center, Louisville, Kentucky
 3/1989 Cholesterol and Coronary Disease-Reducing the Risk
 Philadelphia County Medical Society, Phila., Pa.
 3/1989 Thrombolytic Therapy in Acute Myocardial Infarction
 Maine Medical Center Cardiology Grand Rounds, Portland, Maine
 3/1989 Cholesterol and Coronary Artery Disease- 1989 Update
 American College of General Practitioners in Osteopathic Medicine
 New York State Chapter, Valley Stream, New York
 3/1989 Cholesterol and Coronary Artery Disease- Reducing the Risk
 Deborah Heart and Lung Center, Browns Mills, New Jersey
 4/1989 New Approaches to Sudden Death
 Latrobe Area Hospital Medical Grand Rounds, Latrobe, Pa.
 4/1989 Cholesterol and Coronary Disease-Reducing the Risk
 10/1989 Silent Myocardial Ischemia
 American College of Apothecaries, Wisconsin Chapter
 4/1989 Cholesterol and its Management
 St. Elizabeth Hospital: Medical Grand Rounds, Utica, New York
 4/1989 The Ischemic Myocardium- New Approaches 1989
 St. Francis Hospital: Medical Grand Rounds, Jersey City, New Jersey
 5/1989 Cholesterol and Coronary Disease- Reducing the Risk
 White Plains Hospital: Cardiology Grand Rounds, White Plains, New York
 5/1989 Cholesterol and Coronary Disease-Reducing the Risk
 Sheraton General Hospital: Medical Grand Rounds, Sheraton, Wyoming
 5/1989 Cholesterol and Coronary Disease, New Concepts
 Medical Center of Baton Rouge, Cardiology Grand Rounds, Baton Rouge, LA.
 5/1989 Cholesterol and Coronary Disease-Reducing the Risk
 Lehigh Valley Hospital Center, Medical Grand Rounds, Allentown, Pa.
 10/1988 Cholesterol and Coronary Disease- Reducing the Risk
 Dekalb General Hospital, Cardiology Conference, Decatur, Georgia
 12/1988 Proarrhythmia
 Brandywine Hospital, West Chester, Penna.
 1/1989 New Concepts in Coronary Artery Disease
 Rahway Hospital, Medical Grand Rounds, Rahway, New Jersey
 1/1989 Cholesterol and Atherosclerosis
 Crestwood Hospital, Medical Grand Rounds, Huntsville, Alabama
 1/1989 Cholesterol and Coronary Disease, Reducing the Risk
 Divine Providence Hospital, Pittsburgh, Penna.
 1/1989 The Ischemic Cascade
 Hamilton Hospital, Trenton, New Jersey
 2/1989 Cholesterol and CAD- Reducing the Risk
 Holy Name Hospital, Cardiology Conference, Teaneck, New Jersey
 6/1989 Sudden Cardiac Death
 Physician's Memorial Hospital, LaPlata, MD
 6/1989 Cholesterol and Coronary Artery Disease
 Monsour Hospital, Medical Grand Rounds, Jeannette, PA.
 8/1989 Silent Ischemia

Frick Hospital, Grand Rounds, Mt. Pleasant, PA.
 8/1989 Changing Concepts in Coronary Artery Disease
 Beaver Medical Center, Medical Department Conference, Beaver, PA.
 8/1989 New Concepts in Ischemic Heart Disease
 2/1990 Hypertension: 1990
 Community Hospital, Medical Department Meeting, Syracuse, NY
 9/1989 Silent Myocardial Ischemia
 Mercy Hospital, Grand Rounds, Scranton, Penna.
 9/1989 New Concepts Regarding Cholesterol and CAD
 Kensington Hospital, Philadelphia, PA.
 9/1989 Changing Concepts in Coronary Artery Disease: 1989
 St. Claire Hospital, Pittsburgh, PA.
 10/1989 Changing Concepts in Cholesterol Management
 St. Joseph's Hospital, Reading, Penna.
 10/1989 Cholesterol and Coronary Artery Disease
 Hahnemann University Hospital, Phila., PA. Ob-Gyn Grand Rounds
 11/1989 Cardiac Risk Management in Premenopausal Woman
 Baptist Medical Center, Kansas City, Missouri
 11/1989 Cholesterol and CAD: Reducing the Risk
 Woodhull Medical Center, Brooklyn, New York
 11/1989 Cholesterol and CAD: Reducing the Risk
 Valley Hospital, Ridgewood, New Jersey
 11/1989 Ventricular Ectopy: New Data From CAST
 Hospital of St. Raphael, New Haven, Ct.
 11/1989 Proarrhythmia Complicating Antiarrhythmic Therapy
 Evangelical Hospital, Lewisberg, Penna.
 11/1989 Silent Myocardial Ischemia
 Alamo Community Hospital, Alamo, Michigan
 1/1990 Silent Myocardial Ischemia
 Flint Osteopathic Hospital, Flint, Michigan
 1/1990 New Concepts in Coronary Artery Disease: 1990
 Henryetta Hospital, Henryetta, Oklahoma
 1/1990 Cholesterol and CAD: Reducing the Risk
 Cregg County Internal Medical Society, Longview, Texas
 3/1990 Cholesterol and CAD: Reducing the Risk
 McComb General Hospital, McComb, Mississippi
 4/1990 Cholesterol and Atherosclerosis
 LSU Medical School, New Orleans, LA.
 4/1990 New Concepts in LDL and HDL Cholesterol
 West Virginia Chapter, American Academy of Family Practice
 4/1990 Cholesterol and CAD: Reducing the Risk
 Christ Hospital, Oaklawn, Ill.
 4/1990 Cholesterol and CAD: Reducing the Risk
 Charleston Area Medical Center, Charleston, W. Virginia
 4/ 1990 New Concepts of Lipid Metabolism
 North Shore Medical Center, Miami, Florida
 4/1990 Cholesterol and CAD: Reducing the Risk

Albany Medical Center, Albany, New York
4/1990 LDL and HDL Cholesterol: Current Concepts

Hamilton Hospital, Hamilton, New Jersey
4/1990 Arrhythmias and Myocardial Infarction

McClaren General Hospital, Flint, Michigan
4/1990 Cholesterol and CAD: Reducing the Risk

Cecil County Family Practice Ass., Newark, Delaware
5/1990 Hypertension: The Search for an Ideal Drug
10/1990 Arrhythmias in Acute MI

Jackson Madison County General Hospital, Jackson, TN
5/1990 Cholesterol and CAD: Reducing the Risk

Central Michigan Community Hospital, Mt. Pleasant, MI
5/1990 Ischemic Left Ventricular Dysfunction

Saginaw Cooperative Hospitals, Saginaw, MI
5/1990 Ischemic Left Ventricular Dysfunction

Penna. Osteopathic Ass., Phila., PA.
5/1990 Calcium Blockers and Hypertension

Philadelphia Cardiology Group
9/1990 Renaissance of Beta Blockers in 1990

St. Peters Medical Center, New Brunswick, NJ
10/1990 CAST and its Implications for Arrhythmia Treatment
4/1991 Nitrates and Coronary Artery Disease

Bessemer Caraway Hospital, Bessemer, Alabama
10/1990 HDL Cholesterol: Facts and Fantasy

Williamsport Hospital, Williamsport, Pa.
11/1990 Hypertension in the 90's: The Search for an Ideal Drug

Chester County Hospital, West Chester, Pa.
12/1990 Ventricular Arrhythmias: Who to Treat

Hazeltown General Hospital, Hazeltown, Pa
12/1990 Hypertension in the Elderly

St. Agnes Hospital, Phila., Pa.
12/1990 Cholesterol and CAD: Reducing the Risk
3/1992 Risk Factor Modification and Atherosclerosis

Colorado Springs Internal Medicine Group
12/1990 Beta Blockers in the 90's: Where do they Fit In

Iowa Medical Society, Fort Dodge, Iowa
1/1991 New Concepts in Cholesterol and HDL

University of South Dakota, Sioux Falls, S.D.
1/1991 Reduction of Atherosclerosis: Lipids & Cholesterol

Our Lady of Lourdes Medical Center, Camden, NJ
3/1991 Nitrates in the 90's
8/1991 Hypertension in the Elderly

Quakertown Community Hospital, Quakertown, Pa.
3/1991 Medical Grand Rounds: Cholesterol and
Atherosclerosis

Reading Hospital, West Reading, Pa.
3/1991 Cholesterol & CAD: Reducing the Risk

Sparks Regional Medical Center, Ft. Smith, Arkansas
4/1991 New Concepts in HDL Cholesterol

Beverly Hospital Medical Staff, Beverly, Mass.
5/1991 Lipids and CAD Regression

Wueshoff Hospital, Rockledge, Florida
5/1991 Cholesterol and CAD

St. Vincents Hospital, Indianapolis, Ind.
5/1991 Decisions in Hypertension: 1991

Harrison Regional Medical Center, Harrison, Arkansas
6/1991 New Concepts in Cholesterol Risk

St. Vincents Health Center, Erie, PA.
6/1991 Cholesterol and CAD: Reducing the Risk

Medical College of Pennsylvania, Phila., PA
6/1991 Cardiology Grand Rounds: VEA after CAST

Wayne General Hospital, Wayne, NJ.
6/1991 Medical Grand Rounds: The PVC: 1991

Philadelphia College of Osteopathic Medicine, Phila., PA.
8/1991 Medical Grand Rounds: Hypertension in the Elderly

Chestnut Hill Hospital, Chestnut Hill, Pa.
8/1991 Medical Grand Rounds: Hypertension in the Elderly

Internal Medicine Society of Corpus Christi Texas
9/1991 Regression of Atherosclerosis

Huron County Medical Society, Bad Axe, Michigan
9/1991 Cholesterol and Atherosclerosis

United Hospitals of Newark, Newark, NJ
10/1991 Regression of Atherosclerosis: Role of Cholesterol

Hadassah Hospital, Jerusalem, Israel
10/1991 Treatment of Ventricular Ectopy after CAST

St. Francis Medical Center, Pittsburgh, Pa.
10/1991 Medical Grand Rounds: Silent Ischemia

Mercy Hospital, Pittsburgh, Pa.
10/1991 Medical Grand Rounds: LVH and its Consequences

Lutheran Hospital, FT Wayne, Indiana
11/1991 Medical Grand Rounds: Regression of Atherosclerosis

Nellis Air Force Base, Las Vegas, Nevada
12/1991 Grand Rounds: New Concepts in LDL/HDL Cholesterol

Saint Francis Medical Center, Peoria, Illinois
12/1991 Family Practice Grand Rounds: Regression of
Atherosclerosis

Illinois Heart Institute, Peoria, ILL.
12/1991 Risk Factor Modification

Tyndall AFB, Panama City, FLA
1/1992 Atherosclerosis and its Regression

St. Anne's Hospital, Fall River, Mass.
3/1992 Atherosclerosis: Can we Induce Regression?

Brazosport Memorial Hospital, Lake Jackson, Texas
3/1992 Cholesterol and CAD: Reducing the Risk

Methodist Hospital, Lubbock, Texas
 3/1992 CAD: Lowering Cholesterol and Regression
 Byrne-Jonas Community Hospital, Ft. Polk, LA
 3/1992 Lipids and Atherosclerosis
 Nashua Hospital, Nashua New Hampshire
 5/1992 Secondary Prevention in Coronary Artery Disease
 Sunrise Hospital, Las Vegas, NV
 2/1993 Regression of Atherosclerosis
 Presbyterian Hospital, Philadelphia, PA
 11/1993 Cardiac Care in the 90s: A Managed Care Perspective
 Lehigh Valley Medical Center, Allentown, PA
 3/1994 Assuring Quality in Managed Care
 American College of Nuclear Medicine, Washington, DC
 9/1994 Quality in Managed Care
 American College of Emergency Physicians, VA Chapter, Richmond, VA
 9/1994 The Role of the Emergency Department in Managed Care
 Berlex Cardiac MRI Symposium
 10/1994 An HMO's View of Cardiac Diagnosis
 Robert Wood Johnson Medical School
 12/1994 Quality Care in a Managed Care Environment
 Society of University Surgeons, Denver, CO
 2/1995 Academic Medical Center, Resident Training, & Managed Care
 Association of Academic Professors Of Cardiology, New Orleans, LA
 3/1995 Academic Cardiology In An Era of Managed Care
 Hospital of University of Pennsylvania, Phila., PA
 5/1995 Cardiology and Managed Care: Assuring Quality
 (Cardiology Grand Rounds)
 American College of Cardiology: New England Region, Boston, MA
 11/1995 Cardiology Networks: Outlook for the Future
 Lennox Hill Hospital, New York, NY
 12/1995 Point:Counterpoint: Managed Care
 American College of Cardiology Industry Forum, Bethesda, MD
 2/1996 New Technology Assessment
 Transcatheter Therapeutics: VIII, Washington, DC
 3/1996 Uses and Abuses of Technology
 American Heart Association, Westchester Region, Briarcliff, NY
 3/1996 Cardiology and Managed Care, 1996
 National Health Council, Washington, DC
 6/1996 Managed Care: Focusing on Special Needs
 American College of Nuclear Physicians, Washington, DC
 1/ 1997 Nuclear Medicine and Managed Care
 Leonard Davis Institute of Health Economics, University of PA, Phila, PA
 3/ 1997 Health Policy Seminar Series: Technology Assessment
 American Society of Nuclear Cardiology, Boston, MA
 9/ 1997 2nd Annual Tutorial: Quality Assurance and Managed Care

Transcatheter Therapeutics: IX, Washington, DC
 9/ 1997 The Economics of Interventional Practice: A Managed Care Perspective
 Physician Strategies For Success in the Managed Care Environment

Heart House: American College of Cardiology, Bethesda, MD
 10/ 1997 Diagnosis of CAD in a Managed Care Environment
 The Impact of Managed Care on Nuclear Cardiology and its Future
 Quality Assessment of Nuclear Cardiology

Agency for Healthcare Policy & Research (AHCPR), Rockville, MD
 1/ 1998 Carve-outs, Subcapitation, Bundled Payments: Better Quality that Costs Less?

Heart Council of Long Island, Hicksville, NY
 5/ 1998 Managed Care and the Cardiovascular Specialist

American College of Cardiology, Strategies For Success VII, Bethesda, MD
 6/ 1998 What Payers are Looking For From Cardiology Providers: HMO's Perspective

Heart House: American College of Cardiology, Bethesda, MD
 10/ 1998 Diagnosis of CAD in a Managed Care Environment
 The Impact of Managed Care on Nuclear Cardiology and its Future
 Quality Assessment of Nuclear Cardiology

American Heart Association Scientific Forum on Cardiovascular Disease and Stroke
 Quality of Care and Outcomes Research, San Diego, CA
 5/ 1999 Perspectives on Quality Management and Improvement: Managed Care

Heart House: American College of Cardiology, Bethesda, MD
 10/ 1999 The Impact of Managed Care on Nuclear Cardiology and its Future
 Quality Assessment of Nuclear Cardiology

Summit Conference on Clinical Trials III, Washington, DC
 10/ 1999 Clinical Trials Initiatives: Private Payers Programs

Managing Congestive Heart Failure for the New Millennium, AHA, Phila, PA
 12/ 1999 Congestive Heart Failure: Best Practice Model

Practicing Physician's Approach to the Difficult Headache Patient, Rancho Mirage, CA
 2/ 2000 Managed Care and Headache

American College of Cardiology, Scientific Sessions, Anaheim, CA
 3/ 2000 The Management of Congestive Heart Failure in a Managed Care Environment

Invitational Conference For Nurse Executives School of Nursing University of PA, Phila, PA
 6/ 2000 Insurer-based Information: How Can We Use it to Inform Practice?

Council of State Governments: Health Policy Forum, Boston, MA
 6/ 2000 Insurance Coverage For Clinical Trials

Rocky Mountain Oncology Society, Denver Colorado
6/ 2000 Insurance Coverage For Cancer Clinical Trials
Management Dilemmas in Treating the Headache Patient, Orlando, FL
7/ 2000 Managed Care and Headaches
Penn Macy Institute to Advance Academic Nursing Practice, Phila., PA
7/ 2000 Why Academic Practice? The Advisory Group Perspective
The Business of Practice: Finding Business Expertise
Blood & Marrow Transplantation: State of the Art in Managing Care, MD Anderson
10/ 2000 Cancer Center, Houston, TX
Cancer Clinical Trials
Heart House: American College of Cardiology, Bethesda, MD
10/ 2000 The Impact of Managed Care on Nuclear Cardiology and its
Future
Quality Assessment of Nuclear Cardiology
Transcatheter Therapeutics: 2000, Washington, DC
10/ 2000 The Oculostenotic Reflex Should be Suppressed
Don't Break the Bank
Practicing Physician's Approach to the Difficult Headache Patient, Rancho Mirage,
CA
2/ 2001 Managed Care and Headache
American College of Cardiology, Scientific Sessions, Orlando, FL
3/ 2001 Disease Management: Heart Failure-Payor Options
Medscape/Logician User Group, Portland, OR
5/ 2001 Disease Management: The Good, The Bad and the Ugly
Vascular Biology Working Group Leadership Forum to Reduce CV Events, Chicago,
IL; New York, NY;Atlanta, GA;Los Angeles, CA
4/-5 2002 Setting the Standards for Preventive Cardiology: Quality
Care=Quality outcomes
South Jersey Oncology Network, Marlton, NJ
5/ 2003 Update in Oncologic Cardiology
Abramson Cancer Center of the University of Pennsylvania
5/ 2004 Grand Rounds: Oncologic Cardiology
Hospital of the University of Pennsylvania, Cardiovascular Division
9/ 2004 Grand Rounds, Update in Oncologic Cardiology
National Coalition of Cancer Survivors, Washington, DC
1/ 2005 Roundtable: Costs of Cancer Drugs
Jeanes Hospital, Philadelphia, PA
3/ 2005 Grand Rounds: Update in Oncologic Cardiology
Abramson Cancer Center of the University of Pennsylvania
4/ 2005 Grand Rounds: Cardiac Tamponade
ASCO State Advocacy Meeting, Arlington, VA
9/ 2005 Enhancing Provider Payer Relations
Abramson Cancer Center of the University of Pennsylvania
10/ 2009 Grand Rounds: Cardio oncology: Get to Know your Local Cardiologist
Hospital of the University of Pennsylvania, Cardiovascular Division
5/2011 Grand Rounds: Bone Marrow Transplantation and the Heart
Abramson Cancer Center of the University of Pennsylvania
10/2011 Grand Rounds: Cardiac Complications of Bone Marrow Transplant

Albert Einstein Medical Center, Cardiovascular Division
4/2012 Grand Rounds: Cancer Chemotherapy and the Heart

Scientific Presentations:

1. International Society of Heart and Lung Transplantation, Venice, Italy
3/1994 The Cost of Heart Transplantation
2. International Society of Heart and Lung Transplantation, San Francisco, CA
4/1995 Benefits of An Integrated Outpatient Management Program For
Congestive Heart Failure
3. AHA Conference on Compliance in Healthcare and Research, Washington, DC
4/ 2004 Measuring CV Specialist's Adherence to Evidence-based Care
in the PPO Setting (Poster)

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