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Chair, Department of Preventive Medicine
Northwestern University Feinberg School of Medicine*

President, American Heart Association 2021-22

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EDUCATION:

Date Awarded	Degree	Institution	Degree	Discipline
1986		Swarthmore College Swarthmore, PA	B.A.	History
1991		Columbia University College of Physicians and Surgeons New York, NY	M.D.	Medicine
2001		Harvard University School of Public Health Boston, MA	Sc.M.	Epidemiology

TRAINING:

CLINICAL TRAINING

Dates	Institution	Specialty
1991-1992	Massachusetts General Hospital, Boston, MA	Intern in Medicine
1992-1994	Massachusetts General Hospital	Resident in Medicine
1994-1997	Massachusetts General Hospital	Clinical Fellow in Cardiology
1995-1996	Massachusetts General Hospital	Chief Resident in Medicine
1997-1999	Massachusetts General Hospital	Clinical and Research Fellow in Cardiology

POST-DOCTORAL RESEARCH TRAINING

Dates	Institution	Title	Field of Research
1997-1999	Framingham Heart Study Framingham, MA	Research Fellow	Cardiovascular Epidemiology

2002	The Jackson Laboratory and NHLBI Intensive course on “Genetic Approaches to Complex Heart, Lung and Blood Diseases” Bar Harbor, ME	Certified participant	Genetic Epidemiology
2007-2008	Kellogg School of Management Northwestern University, Chicago, IL Intensive program on “Business for Scientists & Engineers”	Certified participant	Business/Management

LICENSURE/CERTIFICATION:

1994-2004	Diplomate in Internal Medicine, American Board of Internal Medicine
1998-2008; 2008-2018; 2018-2028	Diplomate in Cardiovascular Disease, American Board of Internal Medicine
1994-2004	Licensed Physician, Commonwealth of Massachusetts
2003-present	Licensed Physician, State of Illinois

ACADEMIC APPOINTMENTS:

FACULTY APPOINTMENTS

<u>Dates</u>	<u>Title</u>	<u>Institution</u>	<u>Department</u>
1991-1997	Clinical Fellow	Harvard Medical School, Boston, MA	Medicine
1996-1998	Research Fellow	Harvard Medical School	Medicine
1997-1999	Research Fellow	Boston University School of Medicine Boston, MA	Neurology
1999-2003	Instructor	Harvard Medical School	Medicine
1999-2003	Staff Researcher	NHLBI’s Framingham Heart Study Framingham, MA	--
2001-2003	Adjunct Assistant Professor	Boston University School of Medicine	Epidemiology/ Prev. Medicine
2003	Assistant Professor	Harvard Medical School	Medicine
2003-2007	Assistant Professor	Northwestern University Feinberg School of Medicine Chicago, IL	Prev. Medicine and Medicine
2007-2009	Associate Professor	Northwestern University Feinberg School of Medicine	Prev. Medicine and Medicine
2009-2012	Tenured Associate Professor	Northwestern University Feinberg School of Medicine	Prev. Medicine and Medicine
2012-present	Tenured Professor	Northwestern University Feinberg School of Medicine	Prev. Medicine and Medicine
2012-present	Eileen M. Foell Professor of Heart Research	Northwestern University Feinberg School of Medicine	
2019-present	Professor of Pediatrics	Northwestern University Feinberg School of Medicine	Pediatrics

ADMINISTRATIVE APPOINTMENTS

<u>Dates</u>	<u>Title</u>	<u>Institution</u>
1999-2003	Medical Director, Cardiac Access Unit Supervised 36-bed inpatient unit specializing in pre- and post-cardiac procedure care;	Massachusetts General Hospital

supervised 10-12 nurse practitioners.

2003	Practice Director, Cardiac Unit Associates	Massachusetts General Hospital
	Responsible for co-management of 35-physician academic cardiology practice.	
2008-2019	Director, Program in Cardiovascular Risk Estimation, Communication, and Prevention, Department of Preventive Medicine, Northwestern University Feinberg School of Medicine	
2009-2012	Medical Director, Cardiovascular Clinical Trials Unit, Bluhm Cardiovascular Institute, Northwestern Memorial Hospital	
2009-present	Chair, Department of Preventive Medicine, Northwestern University Feinberg School of Medicine	
2012-2020	Senior Associate Dean for Clinical & Translational Research, Northwestern University Feinberg School of Medicine	
2012-2020	Director and PI, Northwestern University Clinical And Translational Sciences (NUCATS) Institute (PI of CTSA)	

HOSPITAL APPOINTMENTS:

<u>Dates</u>	<u>Title</u>	<u>Hospital</u>
1995-1996	Chief Medical Resident	Massachusetts General Hospital, Boston, MA
1998-1999	Graduate Assistant in Medicine	Massachusetts General Hospital
1999-2002	Assistant in Medicine	Massachusetts General Hospital
2002-2003	Assistant Physician in Medicine	Massachusetts General Hospital
2003-present	Associate in Medicine	Northwestern Medical Faculty Foundation and Northwestern Memorial Hospital/Northwestern Memorial Health Care, Chicago, IL

OTHER EMPLOYMENT:

<u>Dates</u>	<u>Title</u>
1986-1987	Research Technician, Specialized Center for Thrombosis Research, Cornell University Medical College, New York, NY
1999-present	President, Lloyd-Jones Farms, Inc.
2007-present	Ordained minister, Universal Life Church. Wedding officiant.

HONORS AND AWARDS:

<u>Date</u>	<u>Name of Award</u>
1991	Alpha Omega Alpha, Columbia P&S
1991	The Janeway Prize for Most Outstanding Achievements and Abilities, Class of 1991, Columbia University College of Physicians & Surgeons
1991	The Robert F. Loeb Award for Excellence in Clinical Medicine, Columbia P&S
1991	Merck Outstanding Academic Achievement Award, Columbia P&S
1991	Lange Publications Award for Outstanding Achievement, Columbia P&S
1994-1995	Roman W. DeSanctis Scholar, Cardiac Unit, Massachusetts General Hospital
1995-1996	Chief Medical Resident, Massachusetts General Hospital
1996-1997	Chief Fellow, Cardiac Unit, Massachusetts General Hospital
2000	Partners in Excellence Award, in recognition of outstanding performance and commitment to excellence; Massachusetts General Hospital and Partners HealthCare System, Inc. Awarded for excellence in patient care on Cardiac Access Unit at MGH.
2001	Fellow, American College of Cardiology

- 2003 Partners in Excellence Award, in recognition of outstanding performance and commitment to excellence; Massachusetts General Hospital and Partners HealthCare System, Inc. Awarded for excellence in patient care in implementing the American Heart Association's Get with the Guidelines Program.
- 2003 Winner, 2003 American Heart Association Scientific Sessions Poster Competition in Population Science, Orlando, FL. Awarded for poster presentation entitled "Lifetime risk for atherosclerotic cardiovascular disease by risk factor levels at age 50."
- 2004 American Society of Hypertension Young Scholar Award
- 2006 Fellow, American Heart Association
- 2006 Excellence in Teaching Award, Department of Medicine, Northwestern University Feinberg School of Medicine. Awarded by the senior medical resident class.
- 2006 Cardiology Teaching Award, Northwestern University Feinberg School of Medicine. Awarded by the cardiology fellows.
- 2007 Excellence in Teaching Award, Department of Medicine, Northwestern University Feinberg School of Medicine. Awarded by the senior medical resident class.
- 2009 Visiting Professor and Gertrude and Florian Nelson Cardiovascular Research Lecturer, University of Mississippi Medical Center, Jackson, MS. April 6-7, 2009.
- 2009 Patterson Award for Faculty Teacher of the Year, Department of Medicine, Northwestern University Feinberg School of Medicine. Awarded by the medical residents.
- 2009 Sam and Sadie Roth Family Visiting Professor and Lecturer, McGill University and Royal Victoria Hospital Department of Medicine, Montreal, Quebec, Canada. October 7-9, 2009.
- 2010 Excellence in Teaching Award, Division of Cardiology, Department of Medicine, Northwestern University Feinberg School of Medicine. Awarded by the cardiology fellows.
- 2010 American Heart Association's Chairman's Award for Volunteer Service in Advancing the Strategic Mission of the AHA. Awarded at AHA Annual Scientific Sessions Opening Plenary.
- 2011 Inducted into American Society for Clinical Investigation (ASCI)
- 2013 Tripartite Legacy Faculty Prize for Translational Science, Leadership and Mentoring, Northwestern University Feinberg School of Medicine. Awarded at Research Day.
- 2014 Peter M. Yurchak, MD Visiting Professor, Division of Cardiology, Massachusetts General Hospital, Boston, MA. May 5-6, 2014.
- 2014 Named "Highly Cited Researcher in Clinical Medicine" by Thomson Reuters -- distinction reserved for investigators in the top 1% (~375 individuals worldwide) by total citations in their scientific field during 2002-2012
- 2015 S. Gilbert Blount Visiting Professor, Department of Medicine, University of Colorado, Denver, CO. February 3-4, 2015.
- 2015 Jackson Society Visiting Professor (selected by medical residents), Massachusetts General Hospital, Harvard Medical School, Boston, MA. May 20-21, 2015.
- 2015 Bulfinch Visiting Professor, Department of Medicine, Massachusetts General Hospital, Harvard Medical School, Boston, MA. May 21-22, 2015.
- 2015 Named "Highly Cited Researcher in Clinical Medicine" by Thomson Reuters -- distinction reserved for investigators in the top 1% (~375 individuals worldwide) by total citations in their scientific field during 2003-2013
- 2016 Visiting Professor, Division of Cardiology and Department of Medicine, University of Utah Medical Center, Salt Lake City, UT. March 31-April 1, 2016.
- 2016 Teaching Excellence Award, Program in Public Health, Northwestern University Feinberg School of Medicine

- 2016 Named “Highly Cited Researcher in Clinical Medicine” by Thomson Reuters -- distinction reserved for investigators in the top 1% (~375 individuals worldwide) by total citations in their scientific field during 2004-2014
- 2017 Gerald T. Gau Lecturer, Department of Cardiology, Mayo Clinic, Rochester, MN. January 25, 2017.
- 2017 Joseph Stokes III, MD, Award, American Society for Preventive Cardiology
- 2017 Teaching Excellence Award, Program in Public Health, Northwestern University Feinberg School of Medicine
- 2017 Inducted into Association of American Physicians (AAP) honorary medical society
- 2017 Duke Clinical Research Institute (DCRI) Visiting Professor. Durham, NC. May 1-2, 2017.
- 2017 American Heart Association Physician of the Year Award
- 2017 Outstanding Teacher Award, awarded by first year medical student class, Northwestern University Feinberg School of Medicine
- 2017 Named “Highly Cited Researcher in Clinical Medicine” by Thomson Reuters -- distinction reserved for investigators in the top 1% (~375 individuals worldwide) by total citations in their scientific field during 2005-2015
- 2018 Awarded Honorary Lifetime Membership by Board of National Lipid Association “by virtue of unusual expertise and contributions to the field of clinical lipidology”
- 2018 Beaudette-Thompson Lecturer, Rutgers University School of Environmental and Biological Sciences. New Brunswick, NJ. November 2, 2018.
- 2018 Outstanding Teacher Award, awarded by first year medical student class, Northwestern University Feinberg School of Medicine
- 2018 Named “Highly Cited Researcher in Clinical Medicine” by Clarivate (Thomson Reuters) -- distinction reserved for investigators in the top 1% (~420 individuals worldwide) by total citations in their scientific field during 2006-2016
- 2019 Elected Member, Association of University Cardiologists (membership limited to 135)
- 2019 Outstanding Teacher Award, awarded by first year medical student class, Northwestern University Feinberg School of Medicine
- 2019 Named “Highly Cited Researcher in Clinical Medicine” by Clarivate (Thomson Reuters) -- distinction reserved for investigators in the top 1% (~420 individuals worldwide) by total citations in their scientific field during 2007-2017
- 2020 William B. Kannel Memorial Lectureship Awardee, American Heart Association Council for Epidemiology and Prevention and American Society for Preventive Cardiology. Lecture presented at American Heart Association Epidemiology and Prevention, Lifestyle and Cardiometabolic Health Annual Scientific Sessions. Phoenix, AZ. March 6, 2020.
- 2020 Elected President-Elect, American Heart Association National Board
- 2020 Named “Highly Cited Researcher in Clinical Medicine” by Clarivate (Thomson Reuters) -- distinction reserved for investigators in the top 1% (~420 individuals worldwide) by total citations in their scientific field during 2008-2018
- 2020 Outstanding Teacher Award, awarded by first year medical student class, Northwestern University Feinberg School of Medicine
- 2021 Mentoring Award, Council on Epidemiology and Prevention, American Heart Association. Awarded by the Council’s Early Career Committee.
- 2021 Elected President, American Heart Association National Board
- 2021 Named Honorary Foreign Member, Mexican Society of Cardiology
- 2021 Outstanding Champion for the Cause Award, American Heart Association

2021	Named “Highly Cited Researcher in Clinical Medicine” by Clarivate (Thomson Reuters) -- distinction reserved for investigators in the top 1% (~420 individuals worldwide) by total citations in their scientific field during 2009-2019
2021	Outstanding Teacher Award, awarded by first year medical student class, Northwestern University Feinberg School of Medicine
2022	Named Honorary Fellow of the Preventive Cardiovascular Nurses’ Association (PCNA)
2022	Named Honorary Fellow of the Japanese Circulation Society
2022	Distinguished National Leadership Award, American Heart Association
2022	Barry D. Rutherford, MD, Lecturship. St. Luke’s Mid-America Heart Institute
2022	Named “Highly Cited Researcher in Clinical Medicine” by Clarivate Analytics -- distinction reserved for investigators in the top 1% (~420 individuals worldwide) by total citations in their scientific field for the preceding decade
2022	Visiting Professor and Inaugural Caudill Endowed Lecturer, University of Alabama at Birmingham Division of Cardiovascular Disease
2023	Pallot Lecturer, Department of Medicine Grand Rounds, University of Miami Miller School of Medicine. February 15, 2023.
2023	Elected Fellow of the American Society of Preventive Cardiology (FASPC)
2023	Teaching Excellence Award, Program in Public Health, Northwestern University Feinberg School of Medicine

PROFESSIONAL ORGANIZATIONS:

<u>Dates</u>	<u>Organization</u>	<u>Role</u>
1991-present	Alpha Omega Alpha Honor Medical Society	
1996-present	American College of Cardiology	
1996-2001		Affiliate Member
2001-present		Fellow, American College of Cardiology (FACC)
2007-2009		Member, ACC/AHA Writing Group for Clinical Performance Measures for Primary Prevention of Cardiovascular Disease in Adults
2008-2011		Member, Prevention of Cardiovascular Disease Committee
2010-2011		Member, AHA/ACCF Writing Group for Secondary Prevention Guidelines
2013		Co-Chair, Writing Group for 2013 ACC/AHA Guideline on the Assessment of Cardiovascular Risk
2013		Member, Writing Group for 2013 ACC/AHA Guideline on the Treatment of Blood Cholesterol to Reduce Atherosclerotic Cardiovascular Risk in Adults
2015-2017		Chair, Writing Group for 2016 ACC Expert Consensus Panel on the Role of Non-Statins Therapies for LDL-Cholesterol Lowering in the Management of Atherosclerotic Cardiovascular Disease Risk; and for 2017 Update
2016		Participant, LDL: Address the Risk Think Tank
2017-2018		Member, Writing Group for ACC/AHA 2018 Guideline for the Management of Blood Cholesterol
2018		Writing Group Chair, AHA/ACC Special Report on “Use of Risk Assessment Tools to Guide Decision-Making in the Primary Prevention of Atherosclerotic Cardiovascular Disease”
2018-2019		Member, Writing Group for ACC/AHA 2019 Guideline for the Prevention of Cardiovascular Disease
1997-present	American Heart Association	
1997-present		Member, Council on Epidemiology and Prevention
1997-present		Member, Council on Clinical Cardiology
2006-present		Fellow, American Heart Association (FAHA)

2020-2021 President-Elect, National Board

AHA National

2000 Member, Risk Factor Modification Working Group, American Heart Association Conference: Do Existing Databases Answer Clinical Questions about Geriatric Cardiovascular Disease and Stroke?

2004-2011 Member, Vice Chair (2006-8), Chair (2008-2010), Statistics Committee

2007-2009 Member, AHA/ACC Writing Group for Clinical Performance Measures for Primary Prevention of Cardiovascular Disease in Adults

2008-2010 Chair, Goals and Metrics Subcommittee and Writing Group for Defining and Setting National Goals For Cardiovascular Health Promotion and Disease Reduction: The American Heart Association's Strategic Impact Goal Through 2020 and Beyond

2009-present American Heart Association National Spokesperson

2009-2011 Member, AHA Writing Group for Effectiveness-Based Guidelines for the Prevention of Cardiovascular Disease in Women--2011 Update

2010-2011 Member, AHA/ACCF Writing Group for Secondary Prevention Guidelines

2010-2011 Member, AHA Writing Group on Value of Primordial and Primary Prevention for Cardiovascular Disease

2010-2011 Member, AHA Writing Group on Forecasting the Future of Cardiovascular Disease in the United States

2010-2013 Member at Large, Science Advisory & Coordinating Committee (SACC); Member, SACC Nominating Committee (2012-2013)

2010-2013 Member, Committee on Scientific Sessions Program (CSSP)

2010-2012 Member, Scientific Publishing Committee

2010-2013 Member, Consumer Health and Quality Coordinating Committee

2010-2011 Chair, Program Committee, American Heart Association International Congress on Global Cardiovascular Prevention and Health Promotion. Held November 12-16, 2011. Orlando, FL.

2011-2014 Co-Chair, Research Metrics Evaluation Task Force

2012-2014 Member, Mission Metrics Task Force

2012-2013 Member, Strategic Planning Task Force for 2014-2017

2012-2103 Member, Writing Group on Better Population Health through Behavior Change in Adults: A Call to Action

2012-present Member, *Cor Vitae* donor society

2013-2016 Scientific Advisor, AHA CEO Roundtable (Invited presenter/discussant, 2013, 2014 x2, 2015 x2)

2013 Co-Chair, Writing Group for 2013 ACC/AHA Guideline on the Assessment of Cardiovascular Risk

2013 Member, Writing Group for 2013 ACC/AHA Guideline on the Treatment of Blood Cholesterol to Reduce Atherosclerotic Cardiovascular Risk in Adults

2013-2014 Co-chair (for Population Science), Scientific Sessions Initiative Steering Committee

2015-2017 Member, Workplace Health Steering Committee

2015 Participant, Superintendents' Roundtable

2016-present Member, Science Advisory & Coordinating Committee (SACC)

2016-2018 Member, Program Integration Coordinating Committee (PICC)

2016-present Member, Science and Clinical Education Lifelong Learning (SCILL) Committee

2016-present Faculty member, AHA Annual 10-Day Seminar on the Epidemiology and Prevention of Cardiovascular Disease

2016-2018 Vice Chair, Committee on Scientific Sessions Program (CSSP)

2017-2018 Member, Writing Group for ACC/AHA 2018 Guideline for the Management of Blood Cholesterol

2018 Writing Group Chair, AHA/ACC Special Report on "Use of Risk Assessment Tools to Guide Decision-Making in the Primary Prevention of Atherosclerotic Cardiovascular Disease"

2017-2018	Member, SACC Nominating Committee
2018-2019	Member, Writing Group for ACC/AHA 2019 Guideline for the Prevention of Cardiovascular Disease
2018-present	Member, National Advocacy Coordinating Committee
2018-present	Chair, Committee on Scientific Sessions Program (CSSP)
2019-2020	Member, Presidential Session Awards Selection Committee
2020-2021	President-Elect, National Board
2020-2021	Vice Chair, Science Advisory & Coordinating Committee
2020-	Member, Executive Committee
2020-	Member, Governance Committee
2020-	Member, Corporate Operations Coordinating Committee
2020-	Member (ex officio), International Committee
2020	Member, 2024 Impact Goal Committee
2021	Co-Chair, Emirates Cardiology Society Annual Meeting Planning Committee, Co-Sponsored by AHA
2021-present	Member, Paul Dudley White Legacy Society
2021-2022	President, National Board
2022-2023	Immediate Past President, National Board
2022-2023	Vice Chair, Governance Committee
2022-2023	Chair, National Awards Subcommittee
2022-2023	Chair, Manuscript Oversight Committee
2023-2025	Member at Large, National Board

AHA Council on Epidemiology and Prevention

2003-2013	Member, Vice Chair (2009-10), Chair (2010-2013) Fall Program Committee, Council on Epidemiology and Prevention; Member, Elizabeth Barrett-Connor YIA Committee
2007-present	Member, Council Leadership Committee
2009-2011	Liaison for EPI Council to QCOR Annual Scientific Program Committee
2014-2016	Vice Chair, Council on Epidemiology and Prevention
2014-2016	Member, Early Career Committee, Council on Epidemiology and Prevention
2014-2016	Liaison for EPI Council to Council on Lifestyle Leadership Committee
2016-2018	Chair, Council on Epidemiology and Prevention
2018-2020	Immediate Past Chair, Council on Epidemiology and Prevention
2018-2020	Chair, Council Nominating Committee

AHA Midwest Affiliate

2012-2018	Member, Board of Directors
2012-2018	Member, Chair (2015-2017), Health Strategies Committee
2014-2015	President-Elect, Midwest Affiliate Board of Directors
2015-2017	President, Board of Directors
2018-present	Member, Midwest Affiliate Ambassadors (Board Emeriti)

AHA Chicago Metro Affiliate

2011-2020	Member, Board of Directors
2011-2012	My Life Check Champion
2012-2013	President-elect, Board of Directors
2013, 2014	Member, Executive Leadership Team (ELT), Chicago Metro Heart Walk
2013	Chair, ELT, Inaugural Chicago Heart Innovation Forum
2013-2016	President, Board of Directors
2014-2017	Member, ELT, Chicago Heart Innovation Forum
2015	Keynote Speaker, Worksite Wellness Symposium
2019-2020	Member, Leadership Development Committee

2004-2009, 2016 **American Society of Hypertension**, Member

2006-2013 **National Lipid Association/Midwest Lipid Association Member**

2018	Awarded Honorary Lifetime Membership for unusual expertise and contributions to the field of clinical lipidology
2011-present	American Society for Clinical Investigation , Inducted Member
2017-present	Association of American Physicians , Inducted Member
2018-2020	European Society of Cardiology , Member- Congress Planning Committee
2019-present	Association of University Cardiologists , Elected Member (limited to 135)
2023	American Society of Preventive Cardiology , Elected Fellow

PROFESSIONAL ACTIVITIES:

INSTITUTIONAL SERVICE (Committees, Councils, Task Forces)

<u>Dates</u>	<u>Name of Committee</u>
1994-2003	Internship Selection Committee, Medical Services, Massachusetts General Hospital
1995-1996	Chief Residents' Committee, Massachusetts General Hospital
1995-1996	Curriculum Committee, Medical Services, Massachusetts General Hospital
1995-1996	Training Program Committee, Medical Services, Massachusetts General Hospital
1995-2003	Drug Therapy Committee, Massachusetts General Hospital
1999-2003	Teaching and Training Council, Medical Services, Massachusetts General Hospital
2000-2003	Member, Endpoints Committee, NHLBI's Framingham Heart Study
2004-2008	Interviewer, Internal Medicine Residency Selection Committee, Northwestern Memorial Hospital
2007-2008	Member, Great Academic Medical Center Best People Committee, Feinberg School of Medicine
2008-2010	Member, Search Committee for Director of Institute for Healthcare Studies, Feinberg School of Medicine
2009	Member, Ad hoc committee to evaluate promotion & tenure candidate, Feinberg School of Medicine
2009-2011	Member, Search Committee for Professor and Chief, Division of Cardiology, Department of Medicine, Feinberg School of Medicine
2010-2016	Member, Executive Committee, Center for Genetic Medicine, Feinberg School of Medicine
2013-present	Member, Internal Advisory Board, Comprehensive Transplant Center, Feinberg School of Medicine
2014-present	Member, Pediatric Faculty Foundation Board of Directors, Lurie Children's Hospital
2014-2015	Member, Search Committee for Chair of Department of Pediatrics
2015	Member, Search Committee for Director of Center for Healthcare Policy and Economics
2015-present	Executive Member, Northwestern Medicine Clinical Research Council
2016	Member, Search Committee for Director of Institute for Public Health and Medicine
2019-2020	Member, Search Committee for Chair of Department of Pediatrics

TEACHING

LOCAL TEACHING CONTRIBUTIONS

A. Teaching Leadership Roles

1995-1996	Chief Resident, Medical Services, MGH. Supervised and taught at daily Residents' Report; 40 residents; 40 hours/month, all year. Supervised and taught at
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weekly Morbidity and Mortality Rounds; 100 residents and faculty; 10 hours/month, all year.

- 2006-2010 Leader, Cardiovascular Disease Journal Club, Department of Preventive Medicine, Northwestern University. Supervise and lead discussions of articles related to CVD; 15 faculty and fellows; 2 hours per month; all year.
- 2006-2011 Director, Cardiology Division Fellows Research Mentoring Program, Northwestern University Feinberg School of Medicine
- 2006-2012 Co-Director, Cardiology Grand Rounds, Northwestern University Feinberg School of Medicine

Harvard Medical School

- 1994-2002 Patient-Doctor II preceptor for 2 second-year HMS students; 3 hours/week, 8 weeks/year
- 1997-2002 Case-based presentation and interactive lecture for Core II Medicine subinterns; 6-8 HMS students; 1.5 hours/month, 8 months/year.
- 1999-2003 Lectures on “Electrocardiographic signs of myocardial ischemia and infarction” and “ECG unknowns”; 15-20 HMS students; 8 hours/year.
- 2002 “Epidemiology of congestive heart failure.” Lecture for 15-20 HMS 4th year students, 1 hour/year.

Massachusetts General Hospital

- 1996-2003 Case-based discussions with residents at daily Residents’ Report; 40 residents; ~4 hours/year.
- 1996-2003 Case-based and didactic presentations to residents on Ambulatory Care Rotation; 10-20 residents; 1 hour/month, 4 months/year.
- 1997-2003 Clinical spectrum of ventricular tachycardia, and antiarrhythmic agents. Didactic and interactive lectures to residents on the Cardiac Step-Down Unit; 5 residents; 2 hours/month, all year.

Harvard School of Public Health

- 2000-2003 Small-group discussion leader evaluating/developing student summer research projects for EPI 208. 10 students, 5 hours/year contact time.

Boston University School of Public Health

- 2002-2003 Clinical prevention trials in cardiovascular disease. Boston University School of Public Health, Boston, MA. 25 students; 6 hours prep time and 2 hours contact time per year.

Northwestern University – The Graduate School

- 2006-present Cardiovascular Disease: Clinical features, risk prediction, and genetic dyslipidemias. Lecture in course on Genetic Counseling for Complex Adult Genetic Conditions: Cancer Genetics and Beyond. 12-20 genetic counseling students; 3 hours prep time; 2.0 hours contact time per year.
- 2009 Course Director, PH524. Epidemiology of Cardiovascular Disease. Masters in Public Health course. Fall Quarter, 2009-10. 15 students; 3 hours’ contact time per week; 12 weeks.
- 2011 Course Director, PH524. Epidemiology and Prevention of Cardiovascular Disease. Masters in Public Health course. Fall Quarter, 2011-12. 15 students; 3 hours’ contact time per week; 12 weeks.
- 2013 Course Director, PH524. Epidemiology and Prevention of Cardiovascular Disease. Masters in Public Health course. Fall Quarter, 2013-14. 15 students; 3 hours’ contact time per week; 12 weeks.
- 2016 Course Director, PH524. Epidemiology and Prevention of Cardiovascular Disease. Masters in Public Health course. Winter Quarter, 2015-16. 12 students; 3 hours’ contact time per week; 12 weeks.

2016-present	Lecture on “Lifetime Risks of Cardiovascular Disease.” MPH Intermediate Epidemiology course. 12 students; 1 hour prep time; 1.0 hour contact time per year.
2017	Course Director, PH524. Epidemiology and Prevention of Cardiovascular Disease. Masters in Public Health course. Winter Quarter, 2016-17. 9 students; 3 hours’ contact time per week; 12 weeks.
2018	Course Director, PH524. Epidemiology and Prevention of Cardiovascular Disease. Masters in Public Health course. Winter Quarter, 2017-18. 11 students; 3 hours’ contact time per week; 12 weeks.
2019	Course Director, PH524. Epidemiology and Prevention of Cardiovascular Disease. Masters in Public Health course. Spring Quarter, 2018-19. 11 students; 3 hours’ contact time per week; 12 weeks.
2021	Course Director, PH524. Epidemiology and Prevention of Cardiovascular Disease. Masters in Public Health course. Winter Quarter, 2020-21. 12 students; 3 hours’ contact time per week; 12 weeks.
2023	Course Director, PH524. Epidemiology and Prevention of Cardiovascular Disease. Masters in Public Health course. Winter Quarter, 2022-23. 7 students; 3 hours’ contact time per week; 12 weeks.

Northwestern Memorial Hospital/Northwestern University Feinberg School of Medicine

2004-2012	Medical Board review – cardiovascular disease. Annual MKSAP-based review of board questions related to CVD with senior residents. 25 attendees; 10 hours prep time per year; 7.5 hours contact time per year.
2004-2013	Biostatistics review. Review of how to approach data analysis and interpret statistical methods in the literature, for cardiology fellows and staff. 25 attendees; 5 hours prep time per year; 2 hours contact time per year.
2005	Epidemiology of lipids and cardiovascular disease. Cardiovascular Epidemiology (MPH course). 20 students; 8 hours prep time; 2 hours contact time.
2005	Preventive Medicine (Patient, Physician & Society: M1). 22 students; 12 hours prep time; 8 hours contact time.
2005	Clinical study design. Cardiology fellows’ orientation lecture series. 6 fellows; 3 hours prep time; 1 hour contact time.
2005-2006	Medical Decision Making 3: Using evidence-based medicine to answer clinical questions. Review of specific studies in literature. 10 students; 3 hours prep time; 1 hour contact time. 3 sessions per year.
2005-2008	Preventive Medicine Sessions (Patient, Physician and Society: M2). Smoking cessation. 80 students; 2 hours prep time; 4 hours contact time per year.
2006	Medical Decision Making 2. Supervised small group sessions. 10 students; 15 hours prep time; 10 hours contact time.
2006-2010	Residents’ Report Journal Club. 40 residents; 2 hours prep time per month; 1 hour contact time per month.
2006-2012	Residents’ morning report. 60 residents; 1 hour contact time ~every 4 months.
2006	Epidemiology of lipids and cardiovascular disease. Cardiovascular Epidemiology (MPH course). 20 students; 8 hours prep time; 2 hours contact time.
2006	Preventive cardiology. Medical residents’ noon-time conference. 75 residents; 8 hours prep time; 2 hours contact time.
2007	Medical Decision-Making 3. Precepted small group sessions on Bayesian decision-making, likelihood ratios, meta-analyses, decision analysis, cost-effectiveness analysis, and guidelines. 10 students; 14 hours prep time; 14 hours contact time.
2008-2012	Medical Decision Making 2. Supervised small group sessions on critiques of the literature and assessing decision-making and the utility of diagnostic and prognostic testing. 15 students; 15 hours prep time; 10 hours contact time per year.

2008-2012	Cardiovascular disease and public health. Two 1-hour lectures to first-year medical students in Patient, Physician and Society, Public Health and Medicine Unit. 180 students; 10 hours prep time; 2 hours contact time per year.
2009-2013	Molecular markers in epidemiology. Two-hour lecture in MSCI course on Topics in Molecular Medicine. 5-9 students; 5 hours prep time; 2 hours contact time per year.
2012	The burden of cardiovascular disease. Plenary lecture to M1 students at beginning of CVD unit. 170 students; 4 hours prep time, 1 hours contact time.
2013-2017	Clinical Decision Rules. 1-hour lecture each year to first-year medical students in Medical Decision-Making Course. 170 students; 6 hours prep time, 1 hour contact time per year.
2014-2022	The burden of cardiovascular disease. Plenary lecture to M1 students at beginning of CVD unit. 160 students; 2 hours prep time, 1 hours contact time per year.
2014-2023	Blood Pressure Treatment: When to Start and How Low to Go. Plenary lecture to M1 students at beginning of CVD unit. 160 students; 2 hours prep time, 1 hours contact time per year.
2015	Introduction to Clinical and Translational Research. Course introduction lecture in MSCI course on Introduction to Translational Research. 12 students; 2 hours prep time, 1 hour contact time.
2017-2023	Disorders of Lipid Metabolism and Inherited Lipid Disorders. Endocrinology Fellows' Didactic Curriculum Lecture. 6 fellows; 2 hours prep time; 1.5 hours contact time.

B. Invited Teaching Presentations and Grand Rounds – Home Institution

1996	Prevalence of vitamin D deficiency on the medical service: an MGH medical housestaff study. Medical Grand Rounds of the Massachusetts General Hospital, Boston, MA. June 6, 1996. 150 attendees; 6 hours prep time; 1 hour contact time.
2002	The risk for cardiovascular diseases over a lifetime. Cardiology Grand Rounds, Massachusetts General Hospital, Boston, MA. December 4, 2002. 80 attendees; 20 hours prep time; 1 hour contact time.
2004	Outcomes research in cardiology: Where the rubber of clinical trials meets the road of real patients. Cardiology Grand Rounds, Northwestern Memorial Hospital, Chicago, IL. April 16, 2004. 80 attendees; 20 hours prep time; 1 hour contact time.
2005	Changing the horizon for risk estimation: Lifetime risk for cardiovascular disease. Clinical Research Grand Rounds, Northwestern University Feinberg School of Medicine, Chicago, IL. January 12, 2005. 80 attendees; 10 hours prep time; 1 hour contact time.
2005	Changing the horizon in risk estimation: Lifetime risk for cardiovascular disease. Cardiology Grand Rounds, Northwestern University Feinberg School of Medicine, Chicago, IL. February 18, 2005. 60 attendees; 10 hours prep time; 1 hour contact time.
2005	Clinical applications for lifetime risk estimation of cardiovascular disease. General Internal Medicine Unit Research Conference, Northwestern University Feinberg School of Medicine, Chicago, IL. March 25, 2005. 20 attendees; 3 hours prep time; 1 hour contact time.
2005	Resting 12-lead ECG and prediction of cardiovascular disease. Cardiology Research Conference, Bluhm Cardiovascular Institute, Northwestern University Feinberg School of Medicine, Chicago, IL. April 1, 2005. 25 attendees; 6 hours prep time; 1 hour contact time.
2005	Preventive Cardiology 2005. Cardiology Grand Rounds, Northwestern University Feinberg School of Medicine, Chicago, IL. August 26, 2005. 60 attendees; 10 hours prep time; 1 hour contact time.

- 2005 Beyond the Framingham risk score: are there any useful new tests for CVD risk estimation? Center for Vascular Medicine Interdisciplinary Clinical Rounds, Northwestern Memorial Hospital. Chicago, IL. December 1, 2005. 20 attendees; 4 hours prep time; 1 hour contact time.
- 2005 The Framingham risk score: What's next? Seminar at Northwestern University Department of Preventive Medicine. Chicago, IL. December 16, 2005. 15 attendees; 2 hours prep time; 1 hour contact time.
- 2006 Beyond the Framingham risk score: Where do we go from here? Cardiology Grand Rounds, Northwestern University Feinberg School of Medicine, Chicago, IL. January 27, 2006. 60 attendees; 2 hours prep time; 1 hour contact time.
- 2006 Update on Cardiovascular Prevention 2006. Cardiology Grand Rounds, Northwestern University Feinberg School of Medicine, Chicago, IL. August 11, 2006. 60 attendees; 4 hours prep time; 1 hour contact time.
- 2006 Preventive Cardiology 2006. Medical Residents' Noon Conference. October 26 and 27, 2006. 80 attendees; 4 hours prep time; 2 hours contact time.
- 2006 Epidemiology of CVD in the elderly. Buehler Center on Aging, Northwestern University Feinberg School of Medicine, Chicago, IL. November 16, 2006. 20 attendees; 4 hours prep time; 1 hour contact time.
- 2007 Your risk for cardiovascular disease, and what you can do about it. Northwestern Memorial Hospital Mini-Med School. Chicago, IL. February 13, 2007. 250 attendees; 3 hours prep time; 1 hour contact time.
- 2007 Cardiovascular risk estimation: Where do things stand? Cardiology Grand Rounds, Northwestern University Feinberg School of Medicine, Chicago, IL. March 16, 2007. 60 attendees; 4 hours prep time; 1 hour contact time.
- 2007 Preventive Cardiology 2007. Medical Residents' Noon Conference. October 1 and 2, 2007. 80 attendees; 4 hours prep time; 2 hours contact time.
- 2009 Risk scores and biomarkers everywhere: What's a clinician to do? Medical Grand Rounds, Northwestern University Feinberg School of Medicine, Chicago, IL. January 20, 2009.
- 2009 Obesity: Direct and Indirect Risks for Cardiovascular Disease. Northwestern University Domain Dinner on "The Obesity Epidemic." March 3, 2009. 85 attendees; 2 hours' prep time; 1.5 hours contact time.
- 2010 Defining, Measuring and Improving Cardiovascular Health for the US Population. Cardiology Grand Rounds, Northwestern University Feinberg School of Medicine, Chicago, IL. February 12, 2010. 60 attendees; 4 hours prep time; 1 hour contact time.
- 2011 Coronary artery calcium and prediction of coronary heart disease events. Vascular Interdisciplinary Grand Rounds, Northwestern University Feinberg School of Medicine, Chicago, IL. April 6, 2011. 30 attendees; 6 hours' prep time; 1 hour contact time.
- 2012 Mentoring in Medicine: Your Journey Begins. Feinberg School of Medicine Founders' Day Convocation Keynote Address. 400 attendees. August 24, 2012.
- 2013 New CVD Prevention Guidelines. Cardiology Grand Rounds, Northwestern University Feinberg School of Medicine, Chicago, IL. November 25, 2013. 80 attendees; 2 hours prep time; 1 hour contact time.
- 2013 New CVD Prevention Guidelines. Institute for Public Health and Medicine Seminar Series, Northwestern University Feinberg School of Medicine, Chicago, IL. December 5, 2013. 120 attendees; 1 hours prep time; 1 hour contact time.
- 2014 2013 ACC/AHA Guidelines for Reduction of Cardiovascular Risk. Northwestern Medicine Physicians Group Grand Rounds. January 24, 2014. 40 attendees; 1 hours prep time; 1 hour contact time.
- 2014 Life's Simple 7 and the Life Course of Cardiovascular Disease. Department of Pediatrics Grand Rounds, Northwestern University Feinberg School of Medicine

- and Robert and Ann Lurie Children's Hospital. July 25, 2014. 150 attendees; 3 hours' prep time; 1 hour contact time.
- 2015 CVD Prevention. Northwestern University Health Services Seminar, Evanston, IL. November 5, 2015. 25 attendees; 2 hours' prep time; 1 hour contact time.
- 2016 Perspectives on Current CVD Prevention. Primary Care Grand Rounds. Northwestern Medicine. 30 participants; 3 hours prep time, 1.25 hours contact time.
- 2017 Primordial and Primary Prevention of CVD. Northwestern Medicine Lake Forest Hospital Cardiology Grand Rounds. 40 participants; 2 hours prep time; 1 hour contact time.
- 2019 Risk Assessment for CVD Prevention. Primary Care Grand Rounds. Northwestern Medicine. 40 participants; 3 hours prep time, 1.25 hours contact time.
- 2021 Contemporary Lipid Management. Primary Care Grand Rounds (Live Virtual Presentation). Northwestern Medicine. 60 participants; 3 hours prep time, 1.25 hours contact time.
- 2022 The Changing Ecosystem of Cardiovascular Prevention. Cardiology Grand Rounds. Northwestern Medicine. 80 participants; 4 hours prep time, 1 hour contact time. October 24, 2022.
- 2023 Risk Assessment: Where Do We Go From Here? Transdiagnostic Clinical Risk Calculators as a Critical Tool for Advancing Equitable Precision Medicine: Bridging Mental & Physical Health to Accelerate Translation. International Hybrid Seminar sponsored by Northwestern's Institute for Innovations in Developmental Sciences and Center for Epidemiology and Population Health. Chicago, IL. February 27, 2023.

C. Home Institution CME Courses

- 2002-2006 Epidemiology and current concepts in hypertension management. Update in Internal Medicine, Massachusetts General Hospital and Harvard Medical School Continuing Medical Education course. 400 attendees; 10 hour prep time and 2 hours contact time per year.
- 2002-2003 Current concepts and challenges in hypertension. Update in Clinical Cardiology, Massachusetts General Hospital and Harvard Medical School Continuing Medical Education course. 200 attendees; 10 hour prep time and 1 hour contact time per year.
- 2005 The obesity epidemic. Global Risk Assessment and Aggressive Management Strategies, Northwestern University Feinberg School of Medicine Continuing Medical Education Course. 100 attendees; 8 hours prep time and 1 hour contact time.
- 2005 Atrial fibrillation: the next epidemic. Atrial Fibrillation: Challenges and Opportunities, Northwestern University Feinberg School of Medicine Continuing Medical Education Course. Chicago, IL. September 8, 2005. 150 attendees; 8 hours prep time and 0.5 hour contact time.
- 2005 Pre-operative cardiac evaluation for vascular surgery patients. Vascular Medicine for the Practicing Physician, Northwestern University Feinberg School of Medicine Continuing Medical Education Course. Chicago, IL. October 22, 2005. 60 attendees; 8 hours prep time; 0.5 hours contact time.
- 2005 Heart failure prevention and outcomes. Heart Failure Holiday Symposium, Northwestern University Feinberg School of Medicine Continuing Medical Education Course. Chicago, IL. December 2, 2005. 200 attendees; 8 hours prep time; 0.5 hours contact time.
- 2006 The unsolicited CT coronary angio result: what to do? Northwestern University Medical Alumni Weekend CME Course. Chicago, IL. April 21, 2006. 100 attendees; 8 hours prep time; 0.5 hours contact time.

- 2006 Atrial fibrillation: Is it preventable? 2006 Atrial Fibrillation Update, Northwestern University Feinberg School of Medicine Continuing Medical Education Course. Chicago, IL. October 9, 2006. 150 attendees; 8 hours prep time and 0.5 hour contact time.
- 2006 Lifetime risk assessment: is it time? Second Annual Vascular Medicine for the Practicing Physician. Northwestern University Feinberg School of Medicine Continuing Medical Education Course. Chicago, IL. October 25, 2006. 100 attendees; 8 hours prep time; 0.5 hours contact time.
- 2008 The Science of Targeted Treatment. Dyslipidemia Mini-Fellowship: Complex Cases, Comprehensive Management. June 21, 2008. 80 attendees; 10 hours' prep time and 2 hours' contact time.
- 2008 Recognizing the patient at risk for heart disease and stroke. 4th Annual Vascular Medicine for the Practicing Clinician Conference. Northwestern University Feinberg School of Medicine. 80 attendees; 4 hours' prep time and 1 hours' contact time.
- 2009 Preventing heart failure in your patients. 5th Annual Heart Failure Holiday Symposium. Northwestern University Feinberg School of Medicine Continuing Medical Education Course. Chicago, IL. December 4, 2009. 200 attendees; 4 hours prep time; 0.5 hours contact time.
- 2010 Asymptomatic LV Dysfunction and Progression to Heart Failure: Epidemiology, Consequences and Prevention. 6th Annual Heart Failure Holiday Symposium. Northwestern University Feinberg School of Medicine Continuing Medical Education Course. Chicago, IL. December 3, 2010. 300 attendees; 4 hours prep time; 0.5 hours contact time.
- 2011 Cardiovascular Risk Assessment and Prevention in 2011. An Update on Clinical Cardiology for the Internist. Northwestern Lake Forest Hospital, Lake Forest, IL. November 4, 2011. 50 attendees; 3 hours prep time; 1 hour contact time.
- 2011 Strategies in Heart Failure Prevention. 7th Annual Heart Failure Holiday Symposium. Northwestern University Feinberg School of Medicine Continuing Medical Education Course. Chicago, IL. December 2, 2011. 300 attendees; 4 hours prep time; 1.0 hours contact time.
- 2012 Risk Factors for CVD: Are There Differences Between Women and Men? Fifth Annual Women's Cardiovascular Health Symposium. Northwestern University Feinberg School of Medicine Continuing Medical Education Course. Chicago, IL. February 3, 2012. 200 attendees; 4 hours prep time; 1.0 hours contact time.
- 2012 What's New in CVD Prevention? Keynote speaker at Northwestern Lake Forest Hospital Medical Staff Quarterly Meeting CME Event. Lake Forest, IL. June 21, 2012. 50 attendees; 4 hours prep time; 1.0 hours contact time.
- 2012 Can We Actually Prevent CAD? First Annual Chicago Cardiovascular Update. Northwestern University Feinberg School of Medicine Continuing Medical Education Course. Chicago, IL. July 13, 2012. 80 attendees; 4 hours prep time; 1.0 hours contact time.
- 2012 Who Gets Heart Failure, Why, and Is the Disease Changing? 8th Annual Heart Failure Holiday Symposium. Northwestern University Feinberg School of Medicine Continuing Medical Education Course. Chicago, IL. November 30, 2012. 300 attendees; 4 hours prep time; 1.0 hours contact time.
- 2013 From Cardiovascular Disease to "Cardiovascular Health." A Quiet Revolution. Sixth Annual Women's Cardiovascular Health Symposium. Northwestern University Feinberg School of Medicine Continuing Medical Education Course. Chicago, IL. February 1, 2013. 200 attendees; 4 hours prep time; 1.0 hours contact time.
- 2013 Preventing Heart Disease – A Reality Emerges. Second Annual Chicago Cardiovascular Update. Northwestern University Feinberg School of Medicine

- Continuing Medical Education Course. Chicago, IL. July 13, 2013. 80 attendees; 4 hours prep time; 1.0 hours contact time.
- 2014 AHA/ACC Guidelines on Cardiovascular Disease Risk Reduction. 50th Annual Year in Internal Medicine CME Conference. Northwestern University Feinberg School of Medicine Continuing Medical Education Course. Chicago, IL. January 17, 2014. 200 attendees; 4 hours prep time; 1.0 hours contact time.
- 2014 Risk Calculation – An Imperfect Science? Third Annual Chicago Cardiovascular Update. Northwestern University Feinberg School of Medicine Continuing Medical Education Course. Chicago, IL. July 10, 2014. 210 attendees; 4 hours prep time; 1.0 hours' contact time lecture and 3.5 hours' contact time in panels and small groups.
- 2014 What's New – New Risk Factors for Heart Failure. 10th Annual Heart Failure Holiday Symposium. Northwestern University Feinberg School of Medicine Continuing Medical Education Course. Chicago, IL. December 5, 2014. 300 attendees; 4 hours prep time; 1.0 hour contact time.
- 2015 Speeding Transformative Research Discoveries to Patient Care. Northwestern University Feinberg School of Medicine Alumni Weekend. April 18, 2015. 18 attendees; 5 hours' prep time; 1 hour contact time.
- 2015 Women and Treatment of Cholesterol for CVD Risk Reduction. 8th Annual Women's Cardiovascular Health Symposium. Northwestern University Feinberg School of Medicine Continuing Medical Education Course. Chicago, IL. May 1, 2015. 200 attendees; 4 hours prep time; 1.0 hours contact time.
- 2015 Understanding the 2013 Risk Assessment Guidelines. Invited talk, panel and small group discussions. 4th Annual Chicago Cardiovascular Update. Northwestern University Feinberg School of Medicine Continuing Medical Education Course. Chicago, IL. July 9, 2015. 140 attendees; 2 hours prep time; 2.0 hours contact time.
- 2015 Prevention of Heart Failure: Lessons Learned from Epidemiology. 11th Annual Heart Failure Holiday Symposium. Northwestern University Feinberg School of Medicine Continuing Medical Education Course. Chicago, IL. December 4, 2015. 300 attendees; 4 hours prep time; 1.0 hour contact time.
- 2016 It's Not That Hard to Prevent CVD. Invited talk and panel. 5th Annual Chicago Cardiovascular Update. Northwestern University Feinberg School of Medicine Continuing Medical Education Course. Chicago, IL. July 7, 2016. 150 attendees; 2 hours prep time; 2.0 hours contact time.
- 2016 Preventing Heart Failure in Stage A and B Patients: What Should I Do in my Community Practice? 12th Annual Heart Failure Holiday Symposium. Northwestern University Feinberg School of Medicine Continuing Medical Education Course. Chicago, IL. December 2, 2016. 300 attendees; 3 hours prep time; 1.0 hour contact time.
- 2017 Primordial and Primary Prevention of Cardiovascular Disease. Cardiovascular Update for the Primary Care Physician. Northwestern Medicine Lake Forest Hospital, Lake Forest, IL. March 3, 2017. 100 attendees; 2 hours prep time; 1 hour contact time.
- 2017 Atherosclerotic Cardiovascular Disease Risk Reduction Therapy Beyond Statins. Invited talk and panel. 6th Annual Chicago Cardiovascular Update. Northwestern University Feinberg School of Medicine Continuing Medical Education Course. Chicago, IL. July 20, 2017. 200 attendees; 2 hours prep time; 2.0 hours contact time.
- 2017 Prevention of Heart Failure. 13th Annual Heart Failure Holiday Symposium. Northwestern University Feinberg School of Medicine Continuing Medical Education Course. Chicago, IL. December 1, 2017. 300 attendees; 3 hours prep time; 1.0 hour contact time.
- 2018 Applying Lipid Guidelines in Women. 11th Annual Women's Cardiovascular Health Symposium. Northwestern University Feinberg School of Medicine

	Continuing Medical Education Course. Chicago, IL. April 27, 2018. 100 attendees; 3 hours prep time; 1.0 hours contact time.
2018	Translational Science and Precision Medicine 2018. Northwestern University Feinberg School of Medicine Alumni Weekend Symposium. Chicago, IL. April 27, 2018. 40 attendees; 3 hours prep time; 1.0 hours contact time.
2018	The A's & B's but no C's of Heart Failure. 14 th Annual Heart Failure Holiday Symposium. Northwestern University Feinberg School of Medicine Continuing Medical Education Course. Chicago, IL. November 30, 2018. 330 attendees; 3 hours prep time; 1.0 hour contact time.
2019	Come On, Really? Can HF Actually Be Prevented? 15 th Annual Heart Failure Holiday Symposium. Northwestern University Feinberg School of Medicine Continuing Medical Education Course. Chicago, IL. December 6, 2019. 400 attendees; 3 hours prep time; 1.0 hour contact time.
2020	16 th Annual Heart Failure Holiday Symposium. Served as moderator for virtual session on "Stage A and B Heart Failure." Chicago, IL. December 11, 2020.
2021	17 th Annual Heart Failure Holiday Symposium. Served as moderator for virtual session on "The ABCs of Heart Failure." Chicago, IL. December 10, 2021.
2022	18 th Annual Heart Failure Holiday Symposium. Served as moderator for hybrid (in-person and virtual) session on "Not So Ancillary Topics in HF." Chicago, IL. December 2, 2022.

D. Clinical/Teaching Attending

1995-1996	Attending on Bigelow ward service teams, Massachusetts General Hospital; 5 residents and 3 HMS students; 80 hours/month, 6 months/year.
1995-1996	Attending on medical consult service, Massachusetts General Hospital; 2 residents; 20 hours/month, 2 months/year.
1995-1999	Attending teaching rounds on Ellison private service, Massachusetts General Hospital; 6 residents and 4 HMS students; 8 hours/month, one month/year.
1999-2003	Preceptor, Cardiology Fellows' Clinic, Massachusetts General Hospital; 4-6 fellows; 16 hours/year.
2000	Attending on Bigelow ward service, Massachusetts General Hospital; 5 residents and 3 HMS students; 80 hours/month, 1 month/year
2000-2003	Attending on Cardiac Consult Service, Massachusetts General Hospital; 2 fellows and 2 HMS students; 20 hours/week, 2 weeks/year
2000-2003	Attending on Cardiac Step-Down Unit, Massachusetts General Hospital; 5 residents; 24 hours/week, 2 weeks/year
2000-2003	Attending on Coronary Care Unit, Massachusetts General Hospital; 1 fellow and 5 residents; 12 hours/week, 2 weeks/year
2004-2012	Attending in Coronary Care Unit, Northwestern Memorial Hospital; 1 fellow, 8 residents and 2 medical students; 42 hours/week, 6-8 weeks/year
2004-present	Attending in Cardiology Clinic, Northwestern Memorial Faculty Foundation; supervise 2 fellows; 5 hours/week; 48 weeks/year

PRIMARY MENTEES/TRAINEES (Please see separate description of mentoring activities)

1995-2003	Danita Yoerger, MD	Currently: Asst. Professor, MGH/Harvard
1994-2002	Craig R. Walsh, MD	Currently: Staff Cardiologist, Providence Hosp, OR
1998-2001	David Spragg, MD	Currently: Asst. Professor, Johns Hopkins
2000-2005	Leonard Ilkhanoff, MD	Currently: Cardiologist, Carient Heart & Vasc., DC
2001-2003	T. David O'Halloran, MD	Currently: Instructor, Mt Auburn/Harvard
2001-2003	Larry A. Allen, MD	Currently: Professor, Univ. of Colorado
2004-2012	Jarett Berry, MD	Currently: Assoc. Professor, UT Southwestern
2004-2012	Liviu Klein, MD	Currently: Assoc. Professor, UCSF

2005-2008	Anita Kumar, MD	Currently: Asst. Professor, Dana Farber/Harvard
2005-2007	Pablo Denes, MD MPH	Currently: Emeritus Professor, Northwestern
2006-2008	Margaret Cavanaugh-Hussey	Currently: Instructor, Brigham/Harvard
2006-2012	Rashad Belin, PhD	Currently: Staff Cardiologist, Franciscan Health
2006-2010	William Mosley II, MD	Currently: Staff Cardiologist, Kaiser Permanente
2006-2008	Heather Gage, MD	Currently: Internist, King's Daughters Clinic, TX
2006-present	John Wilkins, MD	Currently: Assoc. Professor, Northwestern
2007-2012	Ranya Sweis, MD	Currently: Asst. Professor, Northwestern
2007-2009	Raj Gupta, MD	Currently: Clinical Cardiologist, MGH Boston
2007-2017	Mark Huffman, MD	Currently: Assoc. Professor, Northwestern
2007-2013	Joseph Walsh, MD	Currently: Staff Cardiologist, Scripps Green Hosp.
2007-2012	Natalie Evans, MD	Currently: Asst. Professor, Cleveland Clinic
2008-present	Rashmee U. Shah, MD	Currently: Asst. Professor, Univ. of Utah
2008-present	Matthew Feinstein, MD	Currently: Asst. Professor, Northwestern
2008-2011	Priya Kohli, MD	Currently: Cardiologist, Memorial Hosp. of RI
2008-present	Amanda (Marma) Perak, MD	Currently: Asst. Professor, Lurie/Northwestern
2008-2011	Tochi Okwuosa, DO	Currently: Asst. Professor, Rush Univ. Med Ctr.
2009-2011	Nisha Parikh, MD	Currently: Assoc. Professor, UCSF
2009-2013	Umberto Campia, MD	Currently: Asst. Professor, Brigham/Harvard
2009-2011	Christina Shay, PhD	Currently: Staff, American Heart Association
2009-2017	Norrina B. Allen, PhD	Currently: Assoc. Professor, Northwestern
2009-2011	Nick Furiasse, MD	Currently: Clin. Asst. Professor, Northwestern
2009-2015	Chintan Desai, MD	Currently: Clin. Asst. Professor, Johns Hopkins
2010-2012	Andrew Gawron, MD	Currently: Asst. Professor, Univ. of Utah
2011-present	Nilay Shah, MD	Currently: Cardiology fellow, Northwestern
2011-present	Lisa VanWagner, MD	Currently: Asst. Professor, Northwestern
2012-2017	Kunal Karmali, MD	Currently: Clin. Asst. Professor, Northwestern
2012-2013	Rachel Baiduc	Currently: Research Associate, Northwestern
2012-2015	Brittany Bogle, PhD*	Currently: Post-doctoral fellow, Univ. N. Carolina
2012-2015	Amisha Patel, MD	Currently: Asst. Professor, Columbia Univ.
2012-2019	Jane Wilcox, MD	Currently: Asst. Professor, Northwestern
2013-2015	Farah Ali, MD	Currently: Pharmaceutical Industry
2013-2014	Margaret Bock, MD	Currently: Pharmaceutical Industry
2013-present	Sadiya Khan, MD	Currently: Cardiology fellow, Northwestern
2015-2017	Guy Baptista Di Faria, MD	Currently: Asst. Professor, Lurie/Northwestern
2015-2019	Holly Gooding, MD	Currently: Asst. Professor, Emory U.
2015-2018	Rajesh Jaganath, MD	Currently: Staff Cardiologist, Palo Alto Med. Fdn.
2015-2018	Sarah Uttal, MD	Currently: OB/GYN resident, UCSF
2015-2018	Faraz Ahmad, MD	Currently: Cardiology and T32 fellow, Northwestern
2016-2018	Kristoff Olson, MD	Currently: Cardiology fellow, Northwestern
2016-2017	Alexandra Steverson	Currently: Medical student, Loyola
2017-2019	Victor W. Zhong, PhD	Currently: Asst. Professor, Cornell
2017-present	Sean Connolly, MD	Currently: Cardiology fellow, Lurie/Northwestern
2018-present	Gabriel M. Knight	Currently: Medical student, Northwestern
2018-present	Anubha Agarwal, MD	Currently: Cardiology fellow, Northwestern
2018-present	Diana Chirinos, PhD	Currently: Post-doctoral fellow, Northwestern
2018-present	Ravi B. Patel, MD	Currently: Cardiology fellow, Northwestern
2018-present	Lindsay Zimmerman**	Currently: PhD, healthcare industry
2018-present	Kaveh Ardalan, MD	Currently: Asst. Professor, Duke
2019-present	Elizabeth Hibler, PhD	Currently: Asst. Professor, Northwestern
2019-present	Arjun Sinha, MD	Currently: Cardiology fellow, Northwestern
2019-present	Meredith Duncan, PhD	Currently: Asst. Professor, U. of Kentucky
2020-present	Aakash Bavishi, MD	Currently: Cardiology fellow, Northwestern
2020-present	Ado Rivera*	Currently: Doctoral student, Northwestern
2020-present	Michael C. Wang	Currently: Medical student, Northwestern
2020-present	James Guo	Currently: Medical student, Northwestern
2021-present	Shachi Salvi	Currently: Medical student, Northwestern

2021-present	Havisha Pedamallu	Currently: Medical student, Northwestern
2021-present	Kathryn Recto	Currently: Medical student, Northwestern
2023-present	James Walker	Currently: Medical student, Northwestern

*Member of doctoral thesis committee

**Chair of doctoral thesis committee

EXTRAMURAL SERVICE

<u>Dates</u>	<u>Organization/Role</u>
2006-present	NIH/NHLBI
2006	Member, NHLBI Strategic Planning Working Group on Vascular Diseases and Hypertension
2008	Member, NHLBI Working Group on Prevention of Atrial Fibrillation
2008	Member, NHLBI Working Group on Future Opportunities in the ARIC Study
2008-2013	Member, Fourth Expert Panel on Detection, Evaluation and Treatment of High Blood Cholesterol in Adults (ATP-4), National Heart, Lung, and Blood Institute
2008-2013	Co-Chair, Risk Assessment Work Group, National Heart, Lung, and Blood Institute
2008-2013	Member, Expert Panel for Integrated CVD Risk Reduction, National Heart, Lung, and Blood Institute
2011-2012	Chair, NHLBI/NCHS Working Group on Blood Pressure Device Evaluation for NHANES
2004-present	NIH/NHLBI – Coronary Artery Risk Development in Young Adults (CARDIA) Study
2004-2008	Member, Laboratory Committee
2005-2012	Member, Endpoints Committee
2011-present	Member, Steering Committee
2011-present	Member, P&P Committee
2013-present	Co-chair, P&P Committee
2013-present	Member, Executive Committee
2013-present	PI, Northwestern Chicago Field Center
2017-present	Member, Imaging Committee
2017-present	Member, Systems Biology Subcommittee
2004-present	NIH/NHLBI – Multi-Ethnic Study of Atherosclerosis (MESA)
2004-2010	Member, Ancillary Studies Committee
2004	Member, CT Committee
2005-2009	Member, Operations Committee
2009-present	Co-PI, Chicago Field Center
2007-2013	NIH/NHLBI – Cardiovascular Health Study
2007-2013	Member, Steering Committee
2007-2013	Leader, Clinical Cardiovascular/Heart Failure Working Group
2007-2008	NIH/NHLBI – Hispanic Community Health Study
2007-2008	Vice Chair, Endpoints Committee
2019-present	NIH/NHLBI – Framingham Heart Study
2019-present	Member, Framingham Heart Study External Peer Review Committee
2017-2020	NIH/NCATS

	2016-2017	Member, Program Planning Committee, CTSA Program Biennial Face-to-Face Meetings
	2017-2019	Member, CTSA Program Steering Committee, National Center for Advancing Translational Science, NIH
2004-present	DSMB/OSMB Service	
	2004-2010	Member, Data Safety and Monitoring Board, NIH-funded protocol entitled “Sex Differences in Early Myocardial Repolarization” (P.I.: A. Kadish)
	2011-2013	Member, OSMB: Transitions, Risks, and Actions in Coronary Events Center for Outcomes Research and Education (TRACE-CORE), NHLBI Centers for Cardiovascular Outcomes Research
	2011-2014	Chair, Data Safety Monitoring Board, RC4 Way to Heart Health Trial, funded by NHLBI
	2013-2016	Chair, Data Safety Monitoring Board, Automated Hovering to Improve Medication Adherence after Myocardial Infarction, funded by NHLBI
	2015	Chair, REPRIEVE Study implementation evaluation panel for NHLBI
	2015-2023	Member, Data Safety and Monitoring Board, NIH-funded REPRIEVE study, trial of pitavastatin vs. placebo in HIV-infected patients
2016-present	Academic External Advisory Board Participation	
	2016-present	Member, EAB T32 Training Program in Vascular Biology and Hypertension. University of Alabama at Birmingham (Oparil, PI).
	2017-present	Chair, EAB for Mississippi Center for Clinical and Translational Research on Obesity (Wilson, PI; then Granger/Hall, PIs).
2019	External Departmental Reviewer	
	2019	External departmental reviewer for Department of Epidemiology and Prevention, Wake Forest University Medical School. April, 2019.

EDITORIAL RESPONSIBILITIES

<u>Dates</u>	<u>Role</u>
2006-2011	Hypertension Section Editor, <i>Current Cardiovascular Risk Reports</i>
2008	Co-Medical Editor, <i>American Medical Association Complete Guide to Prevention and Wellness</i>
2008-2013	Member, Editorial Board, <i>Circulation: Cardiovascular Quality and Outcomes</i>
2011-2016	Member, Editorial Advisory Board, <i>Global Heart</i>
2016-present	Member, Editorial Board, <i>JAMA Cardiology</i>

REVIEW RESPONSIBILITIES

Grant Review Bodies:

2001	Member, Grant review study section, AHA Pharmaceutical Roundtable Patient Care and Outcomes Research Program, American Heart Association, Dallas, TX
2008	Member, NIH Study Section; NHLBI Special Emphasis Panel ZHL1 CCT-L (C1) S
2009	Member, NIH Study Section; NHLBI Special Emphasis Panel ZHL1 CCT-O (C1) S
2010	Member, NIH Study Section; NHLBI Special Emphasis Panel/Scientific Review Group 2010/08 ZHL1 CCT-U (C1) 1
2010-2013	Member, Grant review study section, AHA Genomics & Translational Biology Epidemiology and Observational Epidemiology (GTOE), American Heart Association, Dallas, TX

Journal Peer Reviewer:

- 1999-present Ad hoc peer reviewer, *The Lancet*
- 2000-present Abstract grader, American Heart Association Scientific Sessions
- 2000-present Ad hoc peer reviewer, *American Journal of Cardiology*
- 2001-present Ad hoc peer reviewer, *Hypertension*
- 2002 Ad hoc peer reviewer, *Journal of Human Hypertension*
- 2003-present Ad hoc peer reviewer, *The New England Journal of Medicine*
- 2003-present Ad hoc peer reviewer, *Circulation*
- 2004-present Ad hoc peer reviewer, *JAMA*
- 2004-present Ad hoc peer reviewer, *Archives of Internal Medicine/JAMA IM*
- 2005-present Ad hoc peer reviewer, *JACC*
- 2005-2006 Ad hoc peer reviewer, *Vascular Health and Risk Management*
- 2005 Ad hoc peer reviewer, *European Heart Journal*
- 2005-present Abstract grader, American Heart Association Annual Conference on Cardiovascular Disease Epidemiology and Prevention
- 2006 Ad hoc peer reviewer, *Obesity*
- 2006-present Ad hoc peer reviewer, *American Journal of Epidemiology*

Moderator at National/International Scientific Meetings:

- 2002 American Heart Association Scientific Sessions. Served as moderator in session of moderated poster presentations on “Nutrition and CVD/Risk Factors/Risk Assessment.” Chicago, IL. November 18, 2002.
- 2003 American Heart Association Scientific Sessions. Served as moderator in session of oral abstract presentations on “Causes, Consequences, and Treatment of Hypertension.” Orlando, FL. November 11, 2003.
- 2005 American Heart Association 45th Annual Conference on Cardiovascular Disease Epidemiology and Prevention. Served as moderator for Professional Development Luncheon on “Methodologic issues in cardiovascular outcomes research.” Washington, DC. May 2, 2005.
- 2005 American Heart Association Scientific Sessions. Served as moderator in session of oral abstract presentations on “Obesity, Physical Activity and Metabolic Syndrome.” Dallas, TX. November 16, 2005.
- 2006 American Heart Association 46th Annual Conference on Cardiovascular Disease Epidemiology and Prevention. Served as moderator for Professional Development Luncheon on “Risk estimation for cardiovascular disease.” Phoenix, AZ. March 4, 2006.
- 2006 Served as moderator in session of oral abstract presentations on “Guidelines and global risk.” XIVth International Symposium on Atherosclerosis. Rome, Italy. June 22, 2006.
- 2006 American Heart Association’s Scientific Sessions. Served as moderator for Cardiovascular Seminar on “Evaluating New Cardiovascular Biomarkers.” Chicago, IL. November 12, 2006.
- 2007 American Heart Association 47th Annual Conference on Cardiovascular Disease Epidemiology and Prevention. Served as moderator for Jeremiah and Rose Stamler Research Award for New Investigators. Phoenix, AZ. March 2, 2007.
- 2007 American Heart Association 47th Annual Conference on Cardiovascular Disease Epidemiology and Prevention. Served as moderator for Professional Development Luncheon on “Risk estimation for cardiovascular disease.” Orlando, FL. March 2, 2007.
- 2007 American Society of Hypertension Annual Scientific Sessions. Served as moderator for Moderated Poster Session on “Epidemiology of hypertension.” Chicago, IL. May 20, 2007.

- 2007 American Heart Association's Scientific Sessions. Served as moderator for abstract oral session on "Modifying Risks and Risks of Intervention." Orlando, FL. November 7, 2007.
- 2008 American Heart Association Annual Scientific Sessions. Served as moderator for abstract oral session on "Epidemiology of Atrial Fibrillation." New Orleans, LA. November 12, 2008.
- 2008 American Heart Association Annual Scientific Sessions. Served as moderator for abstract oral session on "Arterial and Venous Assessment and Risk." New Orleans, LA. November 12, 2008.
- 2009 American Heart Association Annual Scientific Sessions. Served as moderator for Cardiovascular Seminar on "AHA's 2020 Impact Goals: Defining Cardiovascular Health." Orlando, FL. November 16, 2009.
- 2010 American Heart Association Quality of Care and Outcomes Annual Scientific Sessions. Served as moderator for session entitled "The Ins and Outs of Cardiovascular Risk Prediction." Washington, DC. May 21, 2010.
- 2010 American Heart Association Annual Scientific Sessions. Served as moderator for abstract oral session for Elizabeth Barrett-Connor Research Award for Young Investigators in Training. Chicago, IL. November 14, 2010.
- 2010 American Heart Association Annual Scientific Sessions. Served as moderator for abstract oral session on "Reaching the AHA 2020 Goals: Strategies for Success." Chicago, IL. November 15, 2010.
- 2010 American Heart Association Annual Scientific Sessions. Served as moderator for abstract oral session on "Refining Approaches to Cardiovascular Disease Risk Assessment." Chicago, IL. November 16, 2010.
- 2011 American Heart Association Annual Scientific Sessions. Served as moderator for abstract oral session "Elizabeth Barrett-Connor Research Award in Epidemiology and Prevention for Investigators in Training." Orlando, FL. November 13, 2011.
- 2011 American Heart Association Annual Scientific Sessions. Served as moderator for plenary session "Late-Breaking Clinical Trials IV – POWER, SATURN, Evacetrapib and AIM-HIGH trials." Orlando, FL. November 15, 2011.
- 2011 American Heart Association Annual Scientific Sessions. Served as moderator for abstract oral session "New Paradigms in Cardiovascular Risk Assessment." Orlando, FL. November 15, 2011.
- 2012 American Heart Association Annual Conference on Cardiovascular Disease Epidemiology and Prevention. Served as moderator for session on "Hot Off the Press." San Diego, CA. March 15, 2012.
- 2012 American Heart Association Annual Conference on Cardiovascular Disease Epidemiology and Prevention. Served as moderator for moderated poster session on "Surveillance and Population Studies." San Diego, CA. March 16, 2012.
- 2013 Judge in Moderated Poster Session at EuroPREvent 2013: European Association for Cardiovascular Prevention and Rehabilitation Annual Sessions. Rome, Italy. April 20, 2013.
- 2013 American Heart Association Annual Scientific Sessions. Served as moderator for abstract oral session "Elizabeth Barrett-Connor Research Award in Epidemiology and Prevention for Investigators in Training." Dallas, TX. November 17, 2013.
- 2014 American Heart Association Annual Scientific Sessions. Served as poster professor for abstract poster session "Reaching the AHA 2020 Goals: Strategies for Success." Chicago, IL. November 16, 2014.
- 2014 American Heart Association Annual Scientific Sessions. Served as moderator for abstract oral session "Ancel Keys Memorial Lecture: CVD Risk in Women." Chicago, IL. November 18, 2014.

- 2015 American Heart Association Annual Conference on Cardiovascular Disease Epidemiology and Prevention. Served as moderator for Jeremiah and Rose Stamler Research Award for New Investigators. Baltimore, MD. March 5, 2015.
- 2015 American Heart Association Annual Scientific Sessions. Served as moderator for press briefing on “Late-Breaking Clinical Trials 2: Global CVD Prevention.” Orlando, FL. November 9, 2015.
- 2015 American Heart Association Annual Scientific Sessions. Served as moderator for abstract oral session “Statin Therapy: Understanding Risk, Applying Guidelines.” Orlando, FL. November 10, 2015.
- 2016 American College of Cardiology Annual Scientific Sessions. Panelist/discussant of HOPE-3 Trial in Late-Breaking Clinical Trials/Opening Plenary Session. Chicago, IL. April 2, 2016.
- 2016 Panelist in Clinical Focus Session on “2016 Expert Consensus Decision Pathway for Non-Statin Therapies in the Management of LDL-Associated Atherosclerotic CVD Risk.” American College of Cardiology Annual Scientific Sessions. Chicago, IL. April 2, 2016.
- 2016 Panelist in Maintenance of Certification/CME session on “Prevention.” American College of Cardiology Annual Scientific Sessions. Chicago, IL. April 3, 2016.
- 2016 American Heart Association Annual Scientific Sessions. Served as moderator for abstract oral session “Elizabeth Barrett-Connor Young Investigator Award.” New Orleans, LA. November 13, 2016.
- 2016 American Heart Association Annual Scientific Sessions. Served as panelist/discussant for Clinical Science Session “Risk Reduction Strategies on a Global Stage.” New Orleans, LA. November 14, 2016.
- 2016 American Heart Association Annual Scientific Sessions. Served as moderator for abstract oral session “Ancel Keys Memorial Lecture: Lifestyle and Medical Therapy for CVD Prevention.” New Orleans, LA. November 15, 2016.
- 2016 American Heart Association Annual Scientific Sessions. Served as Poster Professor for abstract poster session “Epidemiology and Population Studies: Statins and Statin Adherence.” New Orleans, LA. November 15, 2016.
- 2016 American Heart Association Annual Scientific Sessions. Served as moderator for session “Trending Topics in Population Science.” New Orleans, LA. November 16, 2016.
- 2017 American College of Cardiology’s Cardiovascular Symposium India: Major Topics in Cardiology Today. Served as Moderator for session on “Current Topics in CVD Prevention.” Mumbai, India. January 28, 2017.
- 2017 American Heart Association Annual Scientific Sessions. Served as moderator for abstract oral session “Elizabeth Barrett-Connor Young Investigator Award.” Anaheim, CA. November 12, 2017.
- 2017 American Heart Association Annual Scientific Sessions. Served as moderator for “Lasker Laureate Lecture.” Anaheim, CA. November 13, 2017.
- 2017 American Heart Association Annual Scientific Sessions. Served as moderator for abstract oral session “Ancel Keys Memorial Lecture: Lifestyle and Medical Therapy for CVD Prevention.” Anaheim, CA. November 14, 2017.
- 2018 American Heart Association Annual Scientific Sessions. Served as moderator for “Cutting Edge in Cardiovascular Science” Plenary Session. Chicago, IL. November 10, 2018.
- 2018 American Heart Association Annual Scientific Sessions. Served as moderator for “2018 AHA/ACC Cholesterol Clinical Practice Guidelines” Plenary Session. Chicago, IL. November 10, 2018.
- 2018 American Heart Association Annual Scientific Sessions. Served as moderator for “Bethesda + 40 Conference.” Chicago, IL. November 12, 2018.

- 2019 American College of Cardiology Annual Sessions. Served as moderator and panelist for session on “Practical Application of the New Cholesterol Guidelines: Assessing Risk and Optimizing Therapies.” New Orleans, LA. March 16, 2019.
- 2019 American College of Cardiology Annual Sessions. Served as panelist/discussant for session on “Late Breaking Clinical Trials.” New Orleans, LA. March 18, 2019.
- 2019 American College of Cardiology Annual Sessions. Served as panelist/discussant for session on “The Devil is in the Details: Case-Based Discussion on Cholesterol Guidelines.” New Orleans, LA. March 18, 2019.
- 2019 European Society of Cardiology Annual Sessions. Served as moderator for session on “Personalising cardiovascular risk assessment in primary prevention.” Paris, France. September 1, 2019.
- 2019 American Heart Association Annual Scientific Sessions. Served as moderator for Main Event Plenary Session on “Cutting Edge in Cardiovascular Science: Genes to Behavior Change in the 21st Century.” Philadelphia, PA. November 16, 2019.
- 2019 American Heart Association Annual Scientific Sessions. Served as moderator for Cardiovascular Seminar on “ApoB: Ready for Prime Time in Clinical Practice?” Philadelphia, PA. November 16, 2019.
- 2019 American Heart Association Annual Scientific Sessions. Served as moderator for Health Innovation Pavilion session on “Big Data and Deep Learning – the 4th Industrial Revolution (AHA and the World Economic Forum).” Philadelphia, PA. November 17, 2019.
- 2020 American Heart Association Annual Scientific Sessions – Virtual Experience. Served as moderator for Main Event “Opening Session.” November 13, 2020.
- 2020 American Heart Association Annual Scientific Sessions – Virtual Experience. Served as moderator for Main Event session on “Daily Recap and AHA COVID-19 Rapid Response Research Consortium: Early Results.” November 13, 2020.
- 2020 American Heart Association Annual Scientific Sessions – Virtual Experience. Served as moderator for Main Event session on “Structural Racism as a Public Health Crisis.” November 14, 2020.
- 2020 American Heart Association Annual Scientific Sessions – Virtual Experience. Served as moderator for Main Event session on “Daily Recap and Novel Practical Concepts in Cardio-Oncology.” November 14, 2020.
- 2020 American Heart Association Annual Scientific Sessions – Virtual Experience. Served as moderator for Main Event session on “Daily Recap and Late-Breaking Science: Stents, Valves and Clots.” November 15, 2020.
- 2020 American Heart Association Annual Scientific Sessions – Virtual Experience. Served as moderator for Main Event session on “Daily Recap and Late-Breaking Science: Randomized Trials – Brain, Kidney, and Heart.” November 16, 2020.
- 2020 American Heart Association Annual Scientific Sessions – Virtual Experience. Served as moderator for Main Event session on “Latest Insights on COVID-19 and Cardiovascular Disease.” November 17, 2020.
- 2020 American Heart Association Annual Scientific Sessions – Virtual Experience. Served as moderator for Main Event session on “Closing Session: Trending Topics at AHA 2020.” November 17, 2020.
- 2020 Cardio-Oncology Innovation Network (COIN) Inaugural Summit. Served as moderator for virtual session on “Innovation Panel Discussion.” December 19, 2020.
- 2021 American College of Cardiology Annual Scientific Sessions, ACC.21. Panelist/discussant of ADAPTABLE Trial in Joint American College of Cardiology/Journal of the American College of Cardiology Late-Breaking Clinical Trials (LBCT#1). Virtual Presentation with Live Q&A. May 15, 2021.
- 2021 American College of Cardiology Annual Scientific Sessions, ACC.21. Panelist in session on “Core Knowledge in Action: The Ultimate Guide to Lipids.” American College of Cardiology Annual Sessions. Virtual Presentation with Live Q&A. May 16, 2021.

- 2021 American College of Cardiology Annual Scientific Sessions, ACC.21. Panelist in session on “Cardiovascular Imaging to Enhance Prevention.” American College of Cardiology Annual Sessions. Virtual Presentation with Live Q&A. May 17, 2021.
- 2021 American Heart Association EPI/Lifestyle Annual Scientific Sessions – Virtual Experience. Moderator of Jeremiah and Rose Stamler Young Investigator Award session. May 21, 2021.
- 2021 1st Joint Webinar of the American Heart Association (AHA), Brazilian Society of Cardiology (SBC), and Brazilian Society of Diabetes (SBD). Moderator of session on “Type 2 Diabetes Mellitus and Cardiovascular Disease: From Basic Science to Clinical Scenario.” June 26, 2021.
- 2021 52nd Congress of the Italian Association of Hospital Cardiologists – ANMCO. Served as panelist in Opening Ceremony. August 26, 2021.
- 2021 European Society of Cardiology Annual Congress. Served as panelist in session entitled “The Future of Cardiology – Joint Leadership Session ACC/AHA/WHF/ESC.” August 27, 2021.
- 2021 Sociedad Mexicana Cardiologia Symposium 2021. Moderator in Joint Sociedad Mexicana Cardiologia-American Heart Association virtual session on “Implementing Effective Solutions for Secondary Prevention of CVD.” November 2, 2021.
- 2021 76th Brazilian Congress of Cardiology. Served as moderation in Joint AHA/Brazilian Society of Cardiology International Session on “Polyvascular Atherosclerotic Disease: Where We Stand Today.” November 20, 2021.
- 2021 Italian Society of Cardiology Annual Meeting 2021. Moderator in virtual session on “Joint Symposium SIC/AHA: Artificial Intelligence for Clinical Diagnosis and Therapeutic Strategies: The Future is Already Here.” December 9, 2021.
- 2022 Japanese Circulation Society Annual Meeting. Moderator in virtual session on “How Do We Struggle Against Residual Risk.” March 13, 2022.
- 2022 European Society of Cardiology Annual Congress. Moderator in digital poster session on “Cardiovascular Risk Assessment and Scores.” Barcelona, Spain. August 27, 2022.
- 2022 World Congress of Cardiology 2022. Moderator in session on “WHF Special Activity. Research to Inform Public Policy: Effectiveness of Health Promotion in Promoting Cardiovascular Health.” Rio de Janeiro, Brazil. October 13, 2022.
- 2022 World Congress of Cardiology 2022. Moderator in session on “Joint Symposium AHA-SBC: Breakthroughs in the Management of Cardiomyopathies and Heart Failure.” Rio de Janeiro, Brazil. October 14, 2022.
- 2022 World Congress of Cardiology 2022. Moderator in session on “WHF Special Activity. Addressing Health Inequities from the Grassroots Up.” Rio de Janeiro, Brazil. October 15, 2022.
- 2022 AHA Scientific Sessions 2022. Moderator in session on Life’s Essential 8 and the Intelligent Health Solutions: The Digital Transformation of AHA Science using Technology Platforms. Chicago, IL. November 7, 2022.
- 2022 Cardiological Society of India Conference 2022. Moderator in session on Diabetes & Heart Disease. Chennai, India. December 8, 2022.
- 2022 Cardiological Society of India Conference 2022. Moderator in session on Dyslipidemia Management & ASCVD: A Moving Target. Chennai, India. December 9, 2022.
- 2022 Cardiological Society of India Conference 2022. Moderator in session on Lipids, Cardiometabolics & CVD Prevention. Chennai, India. December 9, 2022.
- 2022 Cardiological Society of India Conference 2022. Moderator in session on ASCVD: Risk Factors & Beyond. Chennai, India. December 10, 2022.
- 2022 Cardiological Society of India Conference 2022. Moderator in session on CSI-AHA Joint Session: Latest Tools in Preventive Cardiology. Chennai, India. December 10, 2022.

- 2022 Cardiological Society of India Conference 2022. Moderator in session on Diagnosing Asymptomatic Atherosclerotic Coronary Artery Disease. Chennai, India. December 11, 2022.
- 2023 American Heart Association EPI/Lifestyle Annual Scientific Sessions. Served as moderator of Jeremiah and Rose Stamler Young Investigator Award session. Boston, MA. March 2, 2023.
- 2023 American College of Cardiology/World Congress of Cariology Joint Sessions. Served as moderator in session on “Managing ASCVD Risk in the Statin Intolerant Patient, a Multinational Perspective: Joint Symposium of the National Lipid Association and the American College of Cardiology.” New Orleans, LA. March 4, 2023.

Scientific Advisory Board Participation

- 2004 Geriatric Cardiovascular Advisory Board. Novartis. Short Hills, NJ. November 14-15, 2004.
- 2005 Implications of the TNT Trial. Advisory Board, Pfizer, Inc. Chicago, IL. May 13, 2005.
- 2005 Stroke Advisory Board. Pfizer, Inc. Chicago, IL. December 15-16, 2005.
- 2006 Understanding the Perception of Value. Advisory Board, Pfizer, Inc. New York, NY. July 20-21, 2006.
- 2006 Stroke Advisory Board. Pfizer, Inc. Chicago, IL. September 15-16, 2006.

GRANT AWARDS:

ACTIVE RESEARCH SUPPORT:

HHSN268201800003I (Lloyd-Jones) 07/01/18 – 06/30/23
NIH/NHLBI

Coronary Artery Risk Development in Young Adults (CARDIA) Study – Chicago Field Center

CARDIA is a 4-center national collaborative longitudinal investigation of physiological, environmental, behavioral, psychological and other factors which may influence the evolution of cardiovascular risk factors, subclinical disease and cardiovascular events from young adulthood to older ages, in black and white men and women initially ages 18-30 in 1985-1986.

HHSN268201800003I (Lloyd-Jones/Carnethon) 11/14/19 – 10/31/21
NIH/NHLBI

Coronary Artery Risk Development in Young Adults (CARDIA) Study – Field Center (Task Area B)

This Task Order will involve protocol finalization, exam preparation activities, a limited re-examination of all surviving and willing CARDIA participants from the Chicago area field center, and close-out activities for the Year 35 examination. Role: Field Center PI

1R01HL149869-01A1 (Notterman/Lloyd-Jones) 08/01/20 – 07/31/24
NIH/NHLBI via Princeton University

The Fragile Families Cardiovascular Health Follow Up Study

We will transition a large cohort of young adults, followed from birth through adolescence, into a longitudinal study of social determinants of health (SDoH) and their influence on cardio-vascular health (CVH). Role: MPI

2UL1TR001422-05A1 (D’Aquila) 08/12/15 – 06/30/24
NIH/NCATS

Northwestern University Clinical and Translational Sciences Institute (NUCATS)

This CTSA award provides support for resources designed to speed transformative research discoveries to patients and the population, while training the next generation of translational scientists across Northwestern, our clinical partners, regional stakeholders and the CTSA consortium. Role: Co-I as of 7/1/2021 (PI thru 6/30/2020)

75N92020D00004 (Allen) 12/19/19 – 12/18/24
NIH/NHLBI

Multi-Ethnic Study of Atherosclerosis (MESA) - Field Center

MESA is a study of the correlates, predictors, and progression of subclinical cardiovascular disease (CVD) in a diverse population-based sample of men and women aged 45-84 who had no evidence of clinical CVD at baseline. Role: Co-PI

1K23HL145101 (Marma Perak/Lloyd-Jones) 12/01/18 - 11/30/23
NIH/NHLBI

Response of the Gut Microbiome and Circulating Metabolome to Diet Intervention in Young Children: Ancillary Study to the Keeping Ideal Cardiovascular Health Family Intervention Trial (KIDFIT)

The aim of this study is to examine the association of a DASH dietary intervention with changes in the microbiome and metabolome in 3-5 year old children. Role: Primary Mentor

1K01HL152009-01 (Hibler) 05/06/20 – 02/28/25
NIH/NHLBI

Predicting risk of cardiotoxicity among young and emerging adult breast cancer patients from treatment to survivorship

This project will examine cardiotoxicity using echocardiography and associations with behaviors and epigenetic marks. Role: Mentor/Sponsor

19CDA34630050 (Joyce) 07/01/19 – 06/30/23 (NCE)
American Heart Association

Associations Between Whole Genome Sequencing-Derived Telomere Length and Subclinical Cardiovascular Disease: The Coronary Artery Risk Development in Young Adults

This study is examining telomere length and its longitudinal associations with subclinical CVD in the CARDIA cohort. Role: Mentor

4R33HL139852-02 (Huffman) 09/15/19 – 08/31/23
NIH/NHLBI

A double-blind randomized controlled trial to assess the efficacy and safety of a quadruple ultra-low-dose treatment for hypertension (QUARTET USA)

This proposal aims to create, evaluate, and demonstrate successful implementation of an ultra-low dose quadruple combination drug therapy that is simpler, more efficacious, and safer than standard therapy for patients and their doctors. Role: Co-Investigator

1R01HL146844-01A1 (Wilkins) 03/01/20 – 02/29/24
NIH/NHLBI

Epigenetic Determinants of Lipoproteins across the Early Adult Life Course

We will explore distinct trajectories of LPN across early adult life, the environmental and epigenetic mediators of these trajectories, and the associations between these trajectories and ASCVD. Role: Co-I

R01HL156792 (Feinstein) 02/2021 – 01/2025
NIH/NHLBI

Immunologic, Inflammatory, and Clinical Contributors to HIV-Related Heart Failure with Preserved Ejection Fraction (HFpEF)

1R01HL143885 (Gordon-Larsen) 04/01/19 – 03/31/23
NIH/NHLBI

Leveraging multi-omics approaches to examine metabolic challenges of obesity in relation to cardiovascular disease

1R01HL131771-01A1 (McDermott) 12/09/16 – 11/30/21
NIH/NHLBI

Improve PAD Performance with METformin. The PERMET Trial

This is a placebo controlled double-blinded randomized clinical trial to test whether metformin (2,000 mg daily) improves and/or prevents decline in walking performance in people with PAD. Role: Co-Investigator

1R01AG057693-01 (McDermott) 08/01/18 – 06/30/23
NIH/NIA

INTERmittent pneumatic ComprEssion for Disability rEversal in PAD: the INTERCEDE Trial

We will conduct a randomized trial (2 x 2 factorial design) of 230 PAD participants randomized to one of four groups: Group A: IPC + exercise; Group B: IPC + “no exercise” control; Group C: sham control + exercise; and Group D: sham control + “no exercise” control. Role: Co-Investigator

1R01HL148661 (Gupta/Allen MPIs) 09/01/19 – 08/31/23
NIH/NHLBI

Dietary sodium, inflammation, and salt sensitivity of blood pressure

This is a randomized, crossover feeding study of high vs. regular sodium dietary intake and associations with inflammation and blood pressure. Role: Co-Investigator

- 1R01AG063887-01 (Yaffe) 09/01/19 – 05/31/23
NIAID via Northern California Institute
Lifecourse CVD Risk and Midlife Cognitive Trajectories and Brain Aging: Implications for Alzheimer's and Dementia Prevention
We propose to investigate the life course associations of CVD risk, cognitive change, and brain health in midlife in the CARDIA cohort. Role: Consortium PI
- 1R01DC017613-01A1 (Schreiner) 09/01/19 – 08/31/23
NIDCD via University of Minnesota
Hyperglycemia, Hearing Loss and Vestibular Dysfunction: The CARDIA Study
We will recruit CARDIA participants to examine the roles that cross-sectional and longitudinal measures of hyperglycemia from young adulthood play in HL and VeD in middle age. Role: Consortium PI
- 1R01AG062819-01A1 (Bryan) 09/15/19 – 05/31/23
NIA via University of Pennsylvania
CARDIA Year 35 Brain MRI Renewal
We will study the long-term associations between vascular risk factors and brain structure and function across early to late midlife in the CARDIA cohort. Role: Co-Investigator
- 2R01HL122477-06A1 (Kalhan) 01/01/20 – 11/30/23
NIH/NHLBI
Transitions from Impaired Respiratory Health to Lung Disease
We will examine phenotypes and identify endotypes of impaired respiratory health that are associated with transitions to chronic lung disease in the CARDIA cohort. Role: Co-Investigator
- 1R01AG062502-01A1 (Bowling) 01/15/20 – 12/31/23
NIA via Duke University
Functional Limitations and Disability Among Middle-Aged Adults
The CARDIA study provides a unique opportunity to study functional status in a diverse, aging cohort. Role: Consortium PI
- 1R01LM013337-01 (Luo) 06/01/20 – 03/31/24
NIH/NLM
Modeling the Incompleteness and Biases of Health Data
This study proposes to a novel framework of Bias-Aware Missing data Imputation with Cross-sectional correlation and Autocorrelation (BAMICA). Role: Co-I
- 1R61NS120245 (Allen) 09/30/20 – 09/01/24
NIH/NINDS
Dementia Risk Pooling Project
This project will pool and harmonize data from numerous national and international cohort studies to understand risks for cognitive decline and dementia. Role: Co-I
- R01HL155864 (Allen) 07/2021 – 03/2025
NIH/NHLBI
Cardiovascular Health Trajectories from Birth thru Adolescence in a Diverse Cohort of Children
- U24DK130164 (Ciolino) 08/2021 – 07/2026
NIH/NIDDK
Liver Cirrhosis Network: Scientific and Data Coordination Center
- R01HL158963 (Siddique) 06/2021 – 05/2025
NIH/NHLBI
Combining longitudinal cohort studies to examine cardiovascular risk factor trajectories across the adult lifespan and their association with disease
- R01HL159250 (Khan) 09/2021 – 05/2025
NIH/NHLBI
Patterns of cardiopulmonary health across the life course
- R01AG068458 (McDermott) 07/2021 – 06/2026
NIH/NHLBI
COCOA flavanols to improve walking performance in PAD: The COCOA-PAD II Trial

R01 HL136685 (Shah) NIH/NHLBI <i>Molecular markers of early cardiometabolic health transitions in the CARDIA study</i>	03/01/20 – 02/28/23 (NCE)
X01HL143326-01 (Hou/Lloyd-Jones MPI) NIH/NHLBI <i>Longitudinal epigenomic study of cardiovascular health metrics and cardiac structure and function in CARDIA</i>	07/01/19 – 06/30/23
UH3 HL141729 (McDermott) NIH/NHLBI <i>1/2 + PROMote weight loss in obese PAD patients to preVENT mobility loss: the PROVE Trial</i>	06/10/19 – 06/04/25
R13 HL154583 (Labarthe) NIH/NHLBI <i>The International Seminar on Cardiovascular Epidemiology and Prevention, 2020</i>	09/01/2020 – 08/31/2022
R56 HL155093 (VanWagner) NIH/NHLBI <i>Blood Pressure as a Modifiable Risk Factor for Cardiovascular Events in Liver Transplant Recipients</i>	09/01/21 – 08/31/22

COMPLETED RESEARCH SUPPORT (AS PI ONLY)

17SFRN33660752 (Lloyd-Jones PI) (NCE) American Heart Association Strategically-Focused Research Center <i>Center Title: Early Life Origins of Cardiovascular Health: Healthier, Earlier</i>	07/01/17 – 06/30/22
X01HL143326-01 (Hou Contact PI; Lloyd-Jones MPI) NIH/NHLBI <i>Longitudinal epigenomic study of cardiovascular health metrics and cardiac structure and function in CARDIA</i>	07/01/19 – 06/30/21
1UL1TR001422-01 (Lloyd-Jones) <i>Northwestern University Clinical and Translational Sciences Institute (NUCATS)</i>	08/12/15 – 06/30/20
1KL2TR001424-01 (Lloyd-Jones/Pope) <i>Multidisciplinary Mentored Career Development Program (KL2)</i>	
1TL1TR001423-01 (Lloyd-Jones/Schnaper) <i>Multidisciplinary Training Program in Child and Adolescent Health (TL1)</i>	
U24TR002260 (Lloyd-Jones) NIH/NCATS <i>Lifespan and Life Course research: Integrating Strategies</i>	10/01/19 – 06/01/20
J.R. Albert Foundation (Lloyd-Jones) <i>Pioneer Obesity Research Program</i>	02/15/14 – 02/14/19
Exhibit B.5 EWP (Lloyd-Jones/Marma-Perak) Northwestern Memorial Hospital Women's Board <i>Associations of Ideal Cardiovascular Health and Lipid Fractions in Pregnancy with Obstetric and Neonatal Outcomes: Hyperglycemia and Adverse Pregnancy Outcomes (HAPO) Study</i>	09/01/17 – 08/31/19
3UL1TR001422-04S1 (Lloyd-Jones) NIH/NCATS <i>Supplement for Team Science Learning Resource</i>	08/12/15 – 07/14/19
3UL1TR001422-04S1 (Lloyd-Jones) NIH/NCATS <i>Supplement for Chicago-area CRC Education and Mentoring</i>	08/12/15 – 03/31/19
HHSN268201300027C (Lloyd-Jones) NIH/NHLBI <i>Coronary Artery Risk Development in Young Adults (CARDIA) Study – Chicago Field Ctr</i>	07/01/13 – 06/30/18
HHSM-500-2012-000081 (Lloyd-Jones) CMS via MITRE* <i>Estimating Benefits in Risk Reduction from Cardiovascular Preventive Therapies in Medicare Patients</i>	04/20/15 – 09/26/17

1 U54 TR001018-01 (Lloyd-Jones) 09/01/14 – 08/31/15
NIH/NCATS
Northwestern University Clinical & Translational Sciences (NUCATS) Institute 2.0

3 U54 TR001018-01S1 (Lloyd-Jones) 09/01/14 – 02/28/15
NIH/NCATS
Enhancing Clinical Research Professionals' Training and Qualifications

13POST16820054 (Lloyd-Jones) 07/01/13 – 06/30/14
American Heart Association Midwest Affiliate Post-Doctoral Fellowship for Jane Wilcos
Identifying Predictors of Myocardial Recovery Among Hospitalized Patients with Non-ischemic Heart Failure

8 UL1 TR000150-05 (Lloyd-Jones) 05/19/08 – 04/30/14
NIH/NCATS
Multidisciplinary Clinical and Translational Science (MCTS) Program (UL1)

8 KL2 TR000107-05 (Lloyd-Jones) 05/19/08 – 04/30/14
NIH/ NCATS
Multidisciplinary Clinical and Translational Science (MCTS) Program (KL2)

8 TL1 TR000108-05 (Lloyd-Jones) 05/19/08 – 04/30/14
NIH/ NCATS
Multidisciplinary Clinical and Translational Science (MCTS) Program (TL1)
*The KL2 and TL1 awards are linked to and administered as a part of Northwestern University's CTSA award (8UL1TR000150-05/3 UL1 TR000150-05S1), described above.

1 D71 TW009139 (Prabhakaran/Lloyd-Jones) 07/17/12 – 02/28/14
NIH via Centre for Chronic Disease Control India
Cardiovascular Research Training in Biostatistics, Aging and Policy in India

5 R01 HL089695-04 (Lloyd-Jones/Carr) 02/01/09 – 01/31/14
NIH/NHLBI
Chicago Healthy Aging Low Risk MRI Angiography (CHARISMA) Study

(Lloyd-Jones) 06/01/13 – 10/31/13
AHA-2013 Student Scholarship in CVD for Nilay Shah
Trends in Secondary Prevention and Mortality in Cardiovascular Disease (NHANES, 1999-2010)

5 R01 HL086792-03 (Lloyd-Jones) 08/15/07 – 04/30/11
NIH/NHLBI
Epidemiology and Mechanisms of ECG Abnormalities: Young Adulthood to Middle Age

Northwestern Memorial Foundation Award (Lloyd-Jones/Campia) 01/01/10-12/31/10
Diurnal and Day-to-Day Variability of Endothelial Progenitor Cell Count and Endothelial Function in Middle-Aged Subjects Without Clinical Atherosclerosis or Diabetes

R24 TW007988 (Lloyd-Jones for Huffman) 07/01/09 – 06/30/10
NIH via Vanderbilt University
Fogarty International Clinical Research Fellowship

R21 HL085375 (Lloyd-Jones) 07/01/06-04/30/06
Epidemiologic Study of Ethnicity and Lifetime Risks for Cardiovascular Disease

American Society of Hypertension Young Scholars Award (Lloyd-Jones) 05/21/04 – 05/20/07

K23 HL004253 (Lloyd-Jones) 08/01/01-07/31/05
NIH/NHLBI
Lifetime Risk of Cardiovascular Diseases

COMPLETED RESEARCH SUPPORT (AS CO-INVESTIGATOR OR MENTOR)

17SFRN33700101 (Allen PI) American Heart Association Strategically-Focused Research Center Project <i>Project Title: Cardiovascular Health Trajectories from Birth through Adolescence</i>	07/01/17 – 06/30/22 (NCE)
18SFRN33900097 (McDermott PI) American Heart Association Strategically Focused Research Center <i>NICotinomidE riboside with/without resveratrol to improve functioning in peripheral artery disease: NICE Trial</i>	04/01/18 – 03/31/22
K23 HL136891 (VanWagner PI; Lloyd-Jones Sponsor/Primary Mentor) NIH/NHLBI <i>Implementation science to improve cardiovascular outcomes among liver transplant recipients</i>	09/01/17 – 12/31/21
5R01HL136685-04 (Shah) NHLBI via Massachusetts General Hospital <i>Molecular markers of early cardiometabolic health transitions in the CARDIA study</i>	03/01/20 – 02/28/22
5F31HL151178-02 (Lloyd-Jones for Zimmerman) NIH/NHLBI <i>Social Determinants of Health and Novel Prediction of Cardiovascular Health from Young Adulthood to Middle Age in the CARDIA Study</i>	12/02/19 – 11/30/21
1R01HL139837-01 (Moran) NHLBI via Columbia University <i>Patient Level Prediction of Clinical Outcomes and Cost-Effectiveness in SPRINT (Optimize-SPRINT)</i>	12/15/17 – 11/30/21
1R01HL136942-01 (Zhao) NIH/NHLBI <i>Methods to Improve Personalized Cardiovascular Disease Prevention across the Life Course</i>	04/01/17 – 03/31/21
1R21AG063076-01 (McDermott) NIH/NIA <i>Unacylated Ghrelin to Improve FuncTioning in PAD: the GIFT Trial</i>	05/15/19 – 12/31/20
19SCG3494000 (Hou/Catov) American Heart Association <i>Longitudinal epigenomic study of gestational diabetes mellitus and cardiac structure and function</i>	07/01/19 – 06/30/21
16FTF31200010 Fellow-to-Faculty Award (Feinstein/Lloyd-Jones) American Heart Association <i>Mechanistic Epidemiology of Myocardial Disease in HIV: Myocardial Fibrosis and Mechanics</i>	07/01/16 – 06/30/21
5UL1TR001857-02 (Reis) NCATS via University of Pittsburgh <i>University of Pittsburgh Clinical and Translational Science Institute (CTSI) ACT Administrative Supplement</i>	10/01/16 – 05/31/21
5K01HL121162 (Lin) NIH/NHLBI <i>Quantitative MRI for the assessment of subclinical CAD in T2DM</i>	09/01/15 – 06/30/20
18SRG343600001 (Allen) American Heart Association <i>Development of Age-specific Childhood Risk Prediction Equations to Identify Children at High Risk for Poor Cardiovascular Health in Adulthood</i>	07/01/18 – 06/30/20
K23HL133601 (Wilkins/Lloyd-Jones primary mentor) NIH/NHLBI <i>Associations Among Apolipoprotein Structural Variants and High-Density Lipoprotein Function</i>	04/01/2017 – 03/31/2021
1 R01 HL126117-01 (McDermott) NIH/NHLBI <i>TELMisartan Plus EXercise to Improve Functioning in PAD: The TELEX Trial</i>	08/17/15 – 04/30/20
1UG3HL141729 (McDermott)	06/10/19 – 06/04/20

NIH/NHLBI
1/2 + PROMote weight loss in obese PAD patients to preVENT mobility loss: the PROVE Trial
1R21AG056903-01 (McDermott) 09/15/17 – 05/31/20
NIH/NIA
Hepatocyte growth factor to Improve Functioning in PAD: the HI-PAD Study
1R01AG063887 (Yaffe/Sidney) 09/01/19 – 05/31/20
NIH/NIA
Lifecourse CVD Risk and Midlife Cognitive Trajectories and Brain Aging: Implications for Alzheimer's and Dementia Prevention
5P30AI117943-03 (D'Aquila) 04/09/15 – 03/31/20
NIH/NIAID
Heart Failure Phenotyping in a Novel, Ethnically Diverse HIV Cohort
Role: Subproject PI – Pilot funds from CFAR
1 K01 HL127159-01 (Meyer) 03/15/15 – 02/28/20
NHLBI (via University of North Carolina-Chapel Hill)
A Novel Gut Microbial-dependent Nutrient Metabolite and Atherosclerosis
HHSN268201500003I (McClelland) 08/15/15 – 12/14/19
NHLBI via University of Washington
Multi-Ethnic Study of Atherosclerosis (MESA) Chicago Field Center
5R01HL122658-02 (Sidney) 12/01/14 – 11/30/19
NHLBI via Kaiser Foundation Research Institute
Determinants of Midlife & Longitudinal Change in Cognitive Function: CARDIA Study
1R61HL139852-01 (Huffman) 05/15/18 – 08/31/19
NIH/NHLBI
A double-blind randomized controlled trial to assess the efficacy and safety of a quadruple ultra-low-dose treatment for hypertension (QUARTET USA)
1 R01 HL122846-01 (McDermott) 04/01/15 – 03/31/19
NIH/NHLBI
Low Intensity Exercise Intervention in Peripheral Artery Disease: The LITE Study
15SFRN24180014 (Muntner) 04/01/15 – 03/31/19
AHA via University of Alabama, Birmingham
Racial differences and US population estimates of Nocturnal Hypertension and Non-dipping (Project 1)
Exhibit B.3 (Wilcox) 09/01/16 – 08/31/18
Northwestern Memorial Hospital
Precision Medicine to Determine Electromechanical Determinants of Myocardial Recovery
R01 HL118289-02 (Allen) 03/15/14 – 02/28/18
NIH/NHLBI
Favorable Cardiovascular Health and Compression of Morbidity in Older Age
Exhibit B.3 (Persell) 09/01/15 – 08/31/17
Northwestern Memorial Hospital
An Electronic Health Record-Based Outreach Intervention to Improve Statin Adherence in Primary Prevention
R21 HL129022-01 (Allen) 09/15/15 – 06/30/17
NIH/NHLBI
Long-Term Patterns in Cardiovascular Risk Factors and Their Time-Varying Impact on the Incidence of Cardiovascular Disease
R00 HL107749-04 (Huffman) 07/21/14 – 06/30/17
NIH/NHLBI
Acute Coronary Syndrome Quality Improvement in Kerala (ACS QUIK)
1306-02719 (McDermott) 09/01/14 – 08/31/17
PCORI

Patient Centered Home Exercise Intervention to Improve Outcomes in Peripheral Artery Disease

R18 HS023921-01 (Kho) 05/01/15 – 04/30/18
AHRQ
Midwest Small Practice Care Transformation Research Alliance

R21 AG049385-01A1 (Zhao/Skaro) 08/01/15 -06/30/17
NIH/NIA
Optimal Older Donor and Recipient Matching to Enhance Liver Transplant Outcomes

R01 HL107510-05 (McDermott) 08/05/11 – 04/30/16
NIH/NHLBI
PROgenitor cell release Plus Exercise to improve functional performance in PAD (PROPEL)

R21 AG047510-02 (McDermott) 05/15/14 – 04/30/16
NIH/NIA
RESveratrol To Improve Outcomes in older pEople with PAD (the RESTORE Trial)

F32 HL116151 (VanWagner / Lloyd-Jones primary mentor)
NIH/NHLBI
Derivation and Validation of a Cardiac Risk Index in Liver Transplantation

12GRNT12070254 (Hou)
AHA Midwest GIA
Histone Modifications and Cardiovascular Effects of Traffic Particle Exposure

P01 HS021141-02 (Baker)
AHRQ
NU Center to Advance Equity in Clinical Preventive Services

K99 HK107749-01A1 (Huffman / Lloyd-Jones primary mentor)
NIH/NHLBI
Acute Coronary Syndrome Quality Improvement in Kerala (ACS QUIK)

K23 HL 092229 (Berry / Lloyd-Jones primary mentor)
NIH/NHLBI
Magnetic Resonance Imaging of Carotid Artery Subclinical Atherosclerosis

DA02507801A1 (Hitsman)
NIH/NIDA
An Effectiveness Trial of Maintenance Therapy for Nicotine Dependence

N01-HC-95164 (Liu)
NIH/NHLBI
Multi-Ethnic Study of Atherosclerosis (MESA) - Field Center

K12 HL083790 (McDermott)
NIH/NHLBI
Vascular Medicine at Northwestern University

N01-HC-48049 (Liu)
NIH/NHLBI
Longitudinal Studies of Coronary Heart Disease Risk Factor in Young Adults (CARDIA)

HHSN268200625236C (Daviglius)
NIH
Hispanic Community Health Study – Field Center

5 R01 HL089619-04 (McDermott)

NIH/NHLBI
Blood Markers of Vulnerability in High-Risk Vascular Patients

R01 HL088589 (McDermott)
NIH/NHLBI
Increasing Activity in Peripheral Arterial Disease

K08 HS015647 (Persell)
AHRQ
CAREER: Tailored Communication to Reduce Cardiovascular Risk

432794 /EPA RD83169701 (Daviglius)
United States Environmental Protection Agency
Prospective Study of Atherosclerosis, Clinical Cardiovascular Disease, and Long-Term Exposure to Ambient Particulate and Matter and Other Air Pollutant in a Multi-Ethnic Cohort.

R01 HL073351 (McDermott)
NIH
Improving Functioning in Peripheral Arterial Disease

R18 HS017163 (Baker)
NIH
Using Precision Performance Measurement to Conduct Focused Quality Improvement

R01 HL078972 (Sidney)
NIH/NHLBI
20 Year Changes in Fitness and Cardiovascular Disease Risk

R21 AG027471 (Klein / Lloyd-Jones primary mentor)
NIH/NIA
Heart Failure Evaluation in Post-Menopausal Women: The Women's Health Initiative

R01 HL086678 (Huang)
NIH/NHLBI
Atherosclerosis Risk Refinement: A Multi-Marker Approach Using Microarrays

R01 HL081141 (Daviglius)
NIH/NHLBI
Low CV Risk, Ages 25-44 & CV/non-CV Outcomes, Ages 65+

F32 HL096390 (Parikh / Lloyd-Jones co-mentor)
NIH/NHLBI
Reproductive Factors and Maternal Cardiovascular Disease

INVITED LECTURES (Regional, National and International):

- 1996 Argatroban for heparin-induced thrombocytopenia. Heparin-Induced Thrombocytopenia Symposium, Brigham and Women's Hospital, Boston, MA. November 20, 1996.
- 1999 Lifetime risk of developing coronary heart disease. Department of Preventive Medicine Grand Rounds, Rush-Presbyterian-St. Luke's Medical Center, Chicago, IL. March 2, 1999.
- 2000 Impact of risk factors on CVD and stroke in the elderly-the Framingham experience. American Heart Association Conference: Do Existing Databases Hold the Answers to Clinical Questions in Geriatric Cardiovascular Disease and Stroke? Washington, DC. January 28, 2000.
- 2001 Epidemiology of hypertension. American Society of Hypertension Clinical Hypertension Review Course, Chicago, IL. March 23, 2001.
- 2001 Secondary prevention of coronary heart disease. Third Croatian Congress on Atherosclerosis, Sibenik, Croatia. June 14, 2001.
- 2001 Current concepts in hypertension: JNC VI and beyond. Annual Meeting of the Montana State Chapter of the ACP-ASIM. August 24, 2001.

- 2002 Lessons from the Framingham Heart Study. Tenth Fairview Cardiology Conference, Fairview Hospital, Cleveland, OH. April 27, 2002.
- 2002 Epidemiology and lack of control of systolic hypertension. 17th Annual Scientific Meeting of the American Society of Hypertension. New York, NY. May 16, 2002.
- 2002 Lifetime risk and competing risk of cardiovascular diseases. Department of Preventive Medicine Research Symposium, Northwestern University Medical School, Chicago, IL. October 23, 2002.
- 2004 Epidemiology of hypertension. National Hypertension Association Symposium on "Hypertension, Hyperlipidemia, and Stroke: Utilizing Evidence to Improve Outcome." New York, NY. May 17, 2004.
- 2004 New approaches to understanding the risks of hypertension. American Society of Hypertension 19th Annual Scientific Meeting Awards Session, New York, NY. May 21, 2004.
- 2004 Subclinical atherosclerosis among Chinese Americans and other ethnic groups: The Multi-Ethnic Study of Atherosclerosis (MESA). Hong Kong College of Cardiology, Twelfth Annual Scientific Congress, Hong Kong, China. June 6, 2004.
- 2004 Atherogenesis and epidemiology of CAD. The American College of Cardiology Foundation Cardiovascular Board Review for Certification and Recertification. Atlanta, GA. September 10, 2004.
- 2004 Primary and secondary prevention of CAD. The American College of Cardiology Foundation Cardiovascular Board Review for Certification and Recertification. Atlanta, GA. September 10, 2004.
- 2004 Ethnic variations in prevalence, treatment and control of hypertension in pre- and perimenopausal women: the Study of Women's Health Across the Nation (SWAN). Department of Preventive Medicine Research Symposium, Rush University Medical Center, Chicago, IL. October 13, 2004.
- 2004 Management of hypertension in the elderly: what is known and unknown. Novartis Geriatric Cardiovascular Advisory Board. Short Hills, NJ. November 15, 2004.
- 2005 Metabolic syndrome and risk for CVD. Department of Human Nutrition Seminar Series, University of Illinois-Chicago Medical School, Chicago, IL. January 13, 2005.
- 2005 Association of lipoprotein particle number and size with subclinical coronary atherosclerosis. MESA Steering Committee Meeting, Rockville, MD. February 2, 2005.
- 2005 Changing the horizon in risk estimation: Lifetime risk for cardiovascular diseases. Cardiology Grand Rounds, University of Pittsburgh Medical Center, Pittsburgh, PA. March 17, 2005.
- 2005 Changing the horizon in risk estimation: Lifetime risk for cardiovascular diseases. Department of Medicine Grand Rounds, St. Joseph Hospital, Chicago, IL. March 30, 2005.
- 2005 Treating lipids in hypertensive patients. Family Medicine Grand Rounds, St. Joseph Hospital, Chicago, IL. April 13, 2005.
- 2005 Healthy Living Panel 2005. Columbia University Club of Chicago. May 4, 2005.
- 2005 Implications of the TNT Trial. Pfizer Cardiovascular Advisory Board. Chicago, IL. May 13, 2005.
- 2005 Long-term and lifetime risk estimation: Application to American Indian and Alaska Native populations. Prevention of Cardiovascular Disease and Diabetes among American Indians and Alaska Natives 2005. Denver, CO. May 17, 2005.
- 2005 Changing the horizon for risk estimation: Lifetime risks for cardiovascular disease. Department of Health Economics Symposium on Cardiovascular Disease, Peking University. Beijing, China. June 21, 2005.
- 2005 Findings in Chinese participants in the Multi-Ethnic Study of Atherosclerosis. Fu Wai Hospital. Beijing, China. June 22, 2005.
- 2005 Subclinical atherosclerosis and associations with risk factors in Chinese populations. Fu Wai Hospital. Beijing, China. June 22, 2005.
- 2005 Benefits of a healthy lifestyle. Lifelong Learners' Course 2005, Northwestern University, Chicago IL. October 26, 2005.

- 2005 Pathophysiology of the metabolic syndrome. American Heart Association Scientific Sessions, Joint Asia-Pacific Society of Cardiology and American Heart Association Session on Metabolic Syndrome, Dallas, TX. November 15, 2005.
- 2005 Metabolic syndrome: pathophysiology, risks and treatment. Medical Grand Rounds, St. Joseph Hospital. South Bend, IN. November 30, 2005.
- 2006 Atrial fibrillation. American Heart Association Go Red for Women Day. Chicago, IL. February 7, 2006.
- 2006 Optimizing risk estimation for CVD in younger adults. Cardiology Grand Rounds, Beth Israel-Deaconess Medical Center. Boston, MA. April 28, 2006.
- 2006 Cardiovascular risk factors predictive for survival to and morbidity-free survival in older age. Symposium on Nutrition and Quality Health Among Older Individuals: What Should We Recommend? University of Pittsburgh Graduate School of Public Health. Pittsburgh, PA. May 11, 2006.
- 2006 Predicting future cardiac events: role of the physical examination and resting ECG. Periodicity of Medical Examinations Session, Aerospace Medical Association Annual Scientific Sessions. Orlando, FL. May 15, 2006.
- 2006 Predicting lifetime risk for cardiovascular disease based on risk factor burden. XIVth International Symposium on Atherosclerosis. Rome, Italy. June 22, 2006.
- 2006 National Youth Leadership Forum on Medicine. 2 one-hour sessions with 50 high school students regarding choice of cardiology as a career. July 12, 2006.
- 2006 What you can do to prevent heart attacks and stroke. Invited lecture to Customer Service Board, Nordstrom's Department Store, Chicago, IL. September 1, 2006.
- 2006 Importance of hypertension in prevention of heart failure. Heart Failure Society of America Annual Scientific Meeting. Seattle, WA. September 12, 2006.
- 2006 Lifetime risk and lifetime prevention of cardiovascular disease. Endocrinology Grand Rounds, Riverside Hospital, Ottawa, ON, Canada. October 3, 2006.
- 2006 Short-term versus long-term risk for coronary artery disease: Implications for 2006 Canadian National Lipid Guidelines. Grand Rounds, Ottawa Heart Institute, Ottawa, ON, Canada. October 4, 2006.
- 2006 Lifetime vs. 10-year assessment of risk for CHD. Clinical Lipidology Update. American Heart Association Scientific Sessions, Chicago, IL. November 12, 2006.
- 2007 Risk Assessment for CVD: Challenges and Opportunities. Medical Grand Rounds, San Francisco General Hospital, San Francisco, CA. January 16, 2007.
- 2007 Beyond the Framingham risk score: What's next in CVD risk estimation? Combined Cardiology Grand Rounds, UC San Francisco, Moffitt-Long Hospital, San Francisco, CA. January 17, 2007.
- 2007 Lifetime risk and competing risks for CVD: How does it all play out? Special Seminar, UC San Francisco Department of Epidemiology and Biostatistics, San Francisco, CA. January 18, 2007.
- 2007 Preventing CVD: A new paradigm. Bay Area Lipid Club, San Francisco, CA. January 18, 2007.
- 2007 Beyond the Framingham risk score: What's next in CVD risk estimation? Cardiology Grand Rounds, UC Irvine Medical Center, Anaheim, CA. January 19, 2007.
- 2007 Long-range risk assessment and lifetime CVD prevention. Pacific Lipid Association Annual Meeting. San Diego, CA. January 20, 2007.
- 2007 User's guide to preventing heart disease and stroke. Kellogg's Corporation and American Heart Association Go Red for Women Symposium. Battle Creek, MI. February 2, 2007.
- 2007 CVD risk estimation in the young. Dallas Heart Study Research Symposium. University of Texas – Southwestern Medical School. Dallas, TX. April 17, 2007.
- 2007 CVD Risk Estimation: Where do Things Stand? Second Annual Vascular Biology Conference. University of Calgary. Calgary, Alberta, Canada. April 28, 2007.
- 2007 Heart failure epidemiology and prevention: Importance of hypertension and asymptomatic LV dysfunction. Annual Pittsburgh Symposium on Heart Failure & Pulmonary Hypertension. University of Pittsburgh Medical Center. Pittsburgh, PA. May 4, 2007.

- 2007 Epidemiology and Risks of Hypertension: A Closer Look. American Society of Hypertension Symposium on "Listening to the Messages in Hypertension." Chicago, IL. May 19, 2007.
- 2007 Lessons Learned from the Framingham Heart Study. Invited lecture at American Society of Hypertension Annual Scientific Sessions. Chicago, IL. May 22, 2007.
- 2007 CVD Risk Assessment. Palm Beach Cardiac Summit 2007: A Comprehensive Update. JFK Medical Center Continuing Medical Education course. June 18, 2007. 150 attendees; 5 hours' prep time and 1 hour contact time.
- 2007 Do Novel Biomarkers Add to Risk Prediction? Lessons from Cardiovascular Disease. Invited lecture at American Diabetes Association 67th Annual Scientific Sessions. Chicago, IL. June 25, 2007.
- 2007 National Youth Leadership Forum on Medicine. 2 one-hour sessions with 50 high school students regarding choice of cardiology as a career. July 12, 2007.
- 2007 What Other Factors Should be Considered in Lipid Therapy for Patients with Cardiometabolic Risk? American Diabetes Association Consensus Conference on Cardiometabolic Risk. Chicago, IL. July 18, 2007.
- 2007 Lessons Learned from CVD Risk Estimation. Meeting on Path to Improved Risk Stratification for Sudden Cardiac Death. Chicago, IL. September 11, 2007.
- 2007 New Paradigms in CVD Risk Estimation. Department of Biostatistics, Bioinformatics & Epidemiology, Medical University of South Carolina. Charleston, SC. September 24, 2007.
- 2007 10-Year vs. Lifetime Risk Estimation for CVD. Midwest Lipid Association Annual Meeting. Minneapolis, MN. September 29, 2007.
- 2007 Weight Stability and Metabolic Risk. NAASO/The Obesity Society Annual Scientific Meeting. New Orleans, LA. October 22, 2007.
- 2007 Outcomes Post-MI and Post-Stroke with Today's Therapies - Great or Not So Great? In Sunday Morning Program on Clinical Lipidology and Thrombosis Update. American Heart Association Scientific Sessions, Orlando, FL. November 4, 2007.
- 2007 Blood Pressure Prevention and Control: Challenges Ahead. In Cardiovascular Seminar on Novel Risk Factors for Hypertension. American Heart Association Scientific Sessions, Orlando, FL. November 4, 2007.
- 2007-2013 Epidemiology, risks and treatment of hypertension. Update in Internal Medicine, Massachusetts General Hospital and Harvard Medical School Continuing Medical Education course. 500 attendees; 10 hours' prep time and 2 hours contact time per year.
- 2007-2013 Incorporating CVD Risk Estimation Into Clinical Practice. Update in Internal Medicine, Massachusetts General Hospital and Harvard Medical School Continuing Medical Education course. 500 attendees; 10 hours' prep time and 2 hours contact time per year.
- 2008 Role of Biomarkers in Primary and Secondary Prevention. XIIIth International Symposium on Ischemic Heart Disease. Valencia, Spain. April 10, 2008.
- 2008 New Paradigms in CVD Risk Estimation. Grand Rounds, Department of Preventive Medicine, Rush University Medical Center, Chicago, IL. May 27, 2008.
- 2008 Lifetime risks for sudden cardiac death. Meeting on Path to Improved Risk Stratification for Sudden Cardiac Death. Chicago, IL. September 16, 2008.
- 2008 Hypertension and Heart Failure: Changing Population Attributable Risk? American Heart Association Scientific Sessions Saturday Symposium on New-Onset Heart Failure: Worsening Epidemic. New Orleans, LA. November 8, 2008.
- 2008 Short-term versus Lifetime Risk of Cardiovascular Events. American Heart Association Scientific Sessions Plenary Session on "Statins in the Water? Responsible Use of Lipid-Modifying Drugs." New Orleans, LA. November 10, 2008.
- 2009 Discovering the Utility of Long-Term Risk Estimation for CVD. Columbia University College of Physicians & Surgeons, Division of General Internal Medicine Research Seminar. New York, NY. March 2, 2009.
- 2009 The Value of Assessing Lifetime Risk for CHD. National Lipid Association Summit Conference on "Integrating Personalized Medicine into CV Risk Assessment." Orlando, FL. March 28, 2009.

- 2009 Lifetime Risk of Developing Heart Failure. Symposium on “The Prevention of Heart Failure.” American College of Cardiology’s 58th Annual Scientific Session. Orlando, FL. March 29, 2009.
- 2009 Talking the talk and walking the walk: How can we REALLY prevent CVD? Gertrude and Florian Nelson Cardiovascular Research Lecture, University of Mississippi Medical Center. Jackson, MS. April 7, 2009.
- 2009 The Practice, Pitfalls and Promise of CVD Prevention. Invited lecture at Plenary Session on “Prevention: Will Promise Ever Become Practice?” American Heart Association Quality of Care and Outcomes Research in Cardiovascular Disease and Stroke Annual Conference. Washington, DC. April 24, 2009.
- 2009 Risk Estimation in Clinical Practice: 2009 Update. Cardiology Grand Rounds, Edward Heart Hospital. Naperville, IL. April 29, 2009.
- 2009 Framingham risk estimation for cardiovascular disease – still the best strategy? (Debate). “From Controversy to Consensus in Cardiovascular Care,” University of Pittsburgh Medical Center Conference at Nemaquin Woodlands Resort. Farmington, PA. June 19, 2009.
- 2009 CAD risk assessment. Invited lecture at American Association of Cardiovascular and Pulmonary Rehabilitation Annual Sessions. Pittsburgh, PA. October 2, 2009.
- 2009 Current and future paradigms in cardiovascular risk assessment. Sam and Sadie Roth Family Lecture. McGill University and Royal Victoria Hospital Department of Medicine, Montreal, Quebec, Canada. October 8, 2009.
- 2009 Not your father’s Oldsmobile: Epidemiology and prevention of CVD in the 21st century. Invited lecture at 13th Paul Dudley White Symposium, Massachusetts General Hospital, Boston, MA. October 10, 2009.
- 2009 Improving cardiovascular risk prediction using lifetime risk. University of Wisconsin Medical School Cardiology Grand Rounds. Madison, WI. October 29, 2009.
- 2009 AHA’s 2020 Impact Goals: Defining cardiovascular health. American Heart Association Annual Scientific Sessions Cardiovascular Seminar on “AHA’s 2020 Impact Goals: Defining Cardiovascular Health.” Orlando, FL. November 16, 2009.
- 2009 Is measuring and modifying inflammation necessary in secondary prevention of atherosclerotic vascular disease? American Heart Association Annual Scientific Sessions Plenary Session on “Inflammation in Cardiovascular Disease: From Bench to Bedside.” Orlando, FL. November 17, 2009.
- 2010 Defining, measuring and improving cardiovascular health in the US population. Invited speaker at the Scientific Seminar Series for the Centers for Disease Control and Prevention’s Division for Heart Disease and Stroke Prevention. Atlanta, GA. January 5, 2010.
- 2010 Better implementation of existing knowledge will save more lives and prevent more events than all of the biomarkers in the world. Invited lecture in American Society of Preventive Cardiology debate at the 50th Annual American Heart Association Scientific Conference on Cardiovascular Disease Epidemiology and Prevention. San Francisco, CA. March 5, 2010.
- 2010 Defining, measuring and improving cardiovascular health: the AHA’s 2020 Impact Goals. American Heart Association Pharmaceutical Roundtable Forum. Atlanta, GA. March 13, 2010.
- 2010 Life’s Simple 7: Defining and Achieving Cardiovascular Health in the Population. Invited Plenary Session Speaker at 8th National Forum for Heart Disease & Stroke Prevention. Washington, DC. April 27, 2010.
- 2010 Clinical Utility of Carotid IMT for CVD Risk Assessment. Invited Plenary Debate at National Lipid Association Annual Scientific Session. Chicago, IL. May 14, 2010.
- 2010 Cardiovascular risk prediction: Basic concepts, current status and future directions. Invited talk at American Heart Association’s Quality of Care and Outcomes Annual Scientific Sessions. Washington, DC. May 21, 2010.
- 2010 Lifecourse of CVD from Young Adulthood to Old Age: Perspectives from US Cohort Studies. Invited plenary talk at XVIIth Yrjo Jahansson Symposium. Helsinki, Finland. August 19, 2010.
- 2010 Cardiovascular Risk Assessment in 2010 and Beyond. Medical Grand Rounds, Medical College of Wisconsin. Milwaukee, Wisconsin. September 10, 2010.

- 2010 Risk score for sudden cardiac death – a beginning. Invited talk at Pathways to Improved Risk Stratification for Sudden Cardiac Death Working Group Meeting. Schiller Park, IL. September 20, 2010.
- 2010 The impact of traditional risk factors on the lifecourse of CVD: Implications for the research agenda. Keynote speaker at Jackson Heart Study 2010 Scientific Conference on “Toward the Resolution of Cardiovascular Health Disparities.” Jackson, MS. September 24, 2010.
- 2010 Cardiovascular Risk Assessment in 2010 and Beyond. Cardiology Grand Rounds. Montefiore Medical Center-Einstein Medical College. Bronx, NY. October 5, 2010.
- 2010 Balancing your Career. Invited speaker at Early Career Breakout Session. American Heart Association Annual Scientific Sessions. Chicago, IL. November 13, 2010.
- 2010 Beyond reclassification to clinical application. Invited speaker in American Heart Association Annual Scientific Sessions Cardiovascular Seminar on “Fine-Tuning Cardiovascular Risk Assessment: Is There Added Value in Using Biomarkers and Imaging?” Chicago, IL. November 14, 2010.
- 2010 Invited discussant on “The Anglo-Scandinavian Cardiac Outcomes Trial (ASCOT): Testing C-Reactive Protein at Baseline and on-Treatment as an Independent Predictor of Cardiovascular Outcomes.” American Heart Association Annual Scientific Sessions Late-Breaking Clinical Trials Session. Chicago, IL. November 17, 2010.
- 2010 AHA 2020 Impact Goals – Improving Cardiovascular Health in the US. Department of Medicine Grand Rounds. University of Pennsylvania Medical Center. Philadelphia, PA. December 7, 2010.
- 2011 Cardiovascular Health Across the Life Course: Origins, Mechanisms, Outcomes and Implications. Forum in Cardiovascular Epidemiology. Harvard School of Public Health. January 14, 2011.
- 2011 Going for the Goal: Our 2020 Vision Around Cardiovascular Health. Keynote Address at American Heart Association National Agenda-Setting Summit: Building a Healthier Future, Powered by Volunteers. Grapevine, TX. March 9, 2011.
- 2011 Can We Fine-Tune CVD Risk Prediction? Invited plenary speaker at Preventive Cardiovascular Nurses’ Association 17th Annual Symposium. Lake Buena Vista, FL. March 12, 2011.
- 2011 Defining, Measuring, and Improving Cardiovascular Health in US Populations. Invited Keynote Address at American Heart Association’s 51st Annual Cardiovascular Disease Epidemiology and Prevention Scientific Sessions. Atlanta, GA. March 24, 2011.
- 2011 Cardiovascular Risk Assessment in 2011 and Beyond. Department of Medicine Grand Rounds. University of New Mexico Medical Center. Albuquerque, NM. April 7, 2011.
- 2011 New Insights in Cardiovascular Risk Stratification. 3rd Annual Advances in Heart Disease Prevention and Rehabilitation Conference. Beaumont Health System. Auburn Hills, MI. June 25, 2011.
- 2011 Cardiovascular Risk Assessment in 2011 and Beyond. Department of Medicine Grand Rounds, University of Illinois, Chicago. Chicago, IL. June 28, 2011.
- 2011 Cardiovascular Health in the US Population. Medicine Grand Rounds, Oregon Health Sciences University. Portland, OR. October 4, 2011.
- 2011 Defining and Promoting Cardiovascular Health and Healthy Longevity. Keynote Speaker at Illinois Department of Public Health’s 2011 Illinois Women’s Health Conference. Springfield, IL. November 2, 2011.
- 2011 Prognostic Importance of Cardiovascular Health at Age 50 and How to Achieve It. Invited speaker at American Heart Association Annual Scientific Sessions Sunday Morning Program. Orlando, FL. November 13, 2011.
- 2011 Global Vascular Risk Assessment: What IS Global Risk? Invited speaker at American Heart Association Annual Scientific Sessions Sunday Morning Program. Orlando, FL. November 13, 2011.
- 2011 Cardiovascular Risk Assessment in Primary Care Practice. Invited Speaker at Pri-Med Midwest Conference. Rosemont, IL. December 1, 2011.

- 2011 Managing the Impending Cardiovascular Disease Crisis – Can We Prevent Heart Disease? CardioCareLive – The Online Cardiology Congress. International webinar. December 7, 2011.
- 2011 Risk for Cardiovascular Disease – A Lifecourse Perspective. University of Chicago Division of Cardiology Grand Rounds. December 9, 2011.
- 2012 Lifetime Risks for Cardiovascular Disease: The Lifetime Risk Pooling Project. Invited speaker at plenary session on “Hot Off the Press.” American Heart Association Annual Conference on Cardiovascular Disease Epidemiology and Prevention. San Diego, CA. March 15, 2012.
- 2012 10-Year vs. Lifetime Risk Assessment for CVD. Invited speaker and panelist at Atlanta Clinical Cardiology Update. Atlanta, GA. April 13, 2012.
- 2012 CVD Risk Assessment: State of the Art. Invited speaker in American Heart Association Annual Scientific Sessions Sunday Morning Program on “Clinical Lipidology Update.” Los Angeles, CA. November 4, 2012.
- 2012 Assessing Global Cardiovascular Risk: What IS Global Risk? Invited speaker in American Heart Association Annual Scientific Sessions Cardiovascular Seminar on “New Strategies in Cardiovascular Risk Assessment and Prevention.” Los Angeles, CA. November 4, 2012.
- 2012 Invited Panelist in American Heart Association Annual Scientific Sessions International Forum on Brazil. Los Angeles, CA. November 4, 2012.
- 2012 Are Traditional Risk Factors Sufficient? Invited speaker in American Heart Association Annual Scientific Sessions Plenary Session on “Imaging of Cardiovascular Risk in the Asymptomatic Patient.” Los Angeles, CA. November 7, 2012.
- 2012 Improving the Nation’s Cardiovascular Health. Keynote Speaker at Medical College of Wisconsin’s Second Bi-Annual Lipid Symposium. Wauwatosa, WI. November 9, 2012.
- 2013 Improving Cardiovascular Health for You & Your Family. Keynote speaker for American Heart Association “Go Red For Women.” Chicago, IL. February 27, 2013.
- 2013 Clinical Prediction Models: Which One? Strengths and Limitations. Invited speaker in American College of Cardiology Annual Scientific Sessions Special Session on “Integrated Imaging of Decision-Making: Coronary Risk Stratification.” San Francisco, CA. March 9, 2013.
- 2013 Invited panelist in Meet The Experts Session on “Lipid Treatment Updates for 2013.” American College of Cardiology Annual Scientific Sessions. San Francisco, CA. March 9, 2013.
- 2013 Multivariable Risk Estimation: Framingham, Lifetime Risk and Beyond. Invited speaker in American College of Cardiology Annual Scientific Sessions Session on “Refining Risk in the Intermediate Risk Patient: What Should We Be Doing?” San Francisco, CA. March 11, 2013.
- 2013 What is High Risk? US Guidelines Perspective. Invited presentation in session on “Guidelines on prevention: risks and targets” at EuroPrevent 2013: European Association for Cardiovascular Prevention and Rehabilitation Annual Sessions. Rome, Italy. April 20, 2013.
- 2013 Calculating the CVD Risk: Which Tool for Which Patient? Invited plenary lecture at Preventive Cardiovascular Nurses Association 19th Annual Symposium. Las Vegas, NV. May 3, 2013.
- 2013 Incorporating Cardiovascular Risk Assessment into Clinical Practice: State-of-the-Art 2013. Cardiology Grand Rounds, University of California-San Francisco. May 8, 2013.
- 2013 Invited Panelist on Assessing CVD Risk, “Lifetime Risk.” National Lipid Association, Las Vegas, NV. June 1, 2013.
- 2013 American Heart Association’s Life’s Simple 7. Invited speaker for the Mended Hearts Chapter 106 Meeting. Chicago, IL. September 10, 2013.
- 2013 ACC/AHA Guidelines on Risk Assessment for Cardiovascular Disease. Invited speaker in American Heart Association Annual Scientific Sessions Plenary Session on “ACC/AHA 2013 Guidelines for CVD Risk Reduction.” Dallas, TX. November 20, 2013.
- 2013 Invited Panelist (via webinar) on “PLVOICES: Clinical Recommendations.” Therapeutic Research Center. December 11, 2013.
- 2013 Improving the Cardiovascular Health of our Patients and the Nation. Keynote Address, Conn Conference, Mid-America Heart Institute, Kansas City, MO. December 13, 2013.

- 2013 2013 AHA/ACC Guidelines on Reduction of Cardiovascular Risk. Cardiology Grand Rounds, Washington University Medical School/Barnes-Jewish Hospital. St. Louis, MO. December 18, 2013.
- 2013 2013 AHA/ACC Guidelines on Reduction of Cardiovascular Risk. Division of Cardiology Grand Rounds, University of Chicago. December 20, 2013.
- 2014 New CVD Prevention Guidelines. Division of Cardiology Special Seminar, University of Alabama-Birmingham Medical School. January 27, 2014.
- 2014 Lifetime Risks for CVD: Observations and Implications. Grand Rounds, Department of Epidemiology, University of Alabama-Birmingham School of Public Health. January 27, 2014.
- 2014 2013 ACC/AHA Prevention Guidelines: Why and How We Developed the New Guidelines. Invited lecture (via webinar) in Special Session of Korean Society of Cardiovascular Disease Prevention Annual Conference. Seoul, South Korea. February 20, 2014.
- 2014 Understanding the New Heart Disease and Stroke Prevention Guidelines. Webinar for Michigan State University – College of Osteopathic Medicine Statewide Campus System. February 21, 2014.
- 2014 Assessment of CV Risk and Update on Cholesterol Management. Invited speaker and panelist for the Rush-Copley Medical Center 11th Annual Women’s Heart Symposium. March 12, 2014.
- 2014 Risky Business: How Should We Employ Risk Assessment in CVD Prevention? Yurchak Memorial Lecture, Massachusetts General Hospital Cardiology Grand Rounds. Boston, MA. May 6, 2014.
- 2014 Perspectives on the 2013 AHA/ACC CVD Prevention Guidelines. Cardiology Grand Rounds, Columbia University College of Physicians & Surgeons. New York, NY. June 3, 2014.
- 2014 Dyslipidemia Management 2014: Views on the News. CardioCareLive – The Online Cardiology Congress. International webinar. June 5, 2014.
- 2014 2013 ACC/AHA CVD Prevention Guidelines. Invited speaker at Internal Medicine Comprehensive Review and Update, Massachusetts General Hospital and Harvard Medical School Continuing Medical Education course. Cambridge, MA. June 10, 2014.
- 2014 Perspectives on Recent Hypertension Guidelines. Invited speaker at Internal Medicine Comprehensive Review and Update, Massachusetts General Hospital and Harvard Medical School Continuing Medical Education course. Cambridge, MA. June 10, 2014.
- 2014 Invited Panelist (via webinar) on “PLVOICES: The Current Cholesterol Controversy.” Prescriber’s Letter webinar. June 11, 2014.
- 2014 Using Your CTSA Effectively – Making Connections. Invited speaker at American Neurological Association 6th Annual Translational and Clinical Research Course. Chicago, IL. July 22, 2014.
- 2014 Arterial Stiffness Should Not be a Part of CVD Risk Assessment. Invited Debate/Counterpoint Plenary Presentation. Fourth Annual North American Artery Society Meeting. Chicago, IL. September 6, 2014.
- 2014 Perspectives on the 2013 AHA/ACC Prevention Guidelines. Cardiology Grand Rounds, University of Pittsburgh Medical School. Pittsburgh, PA. September 19, 2014.
- 2014 Perspectives on the 2013 AHA/ACC Prevention Guidelines. Fred Ownby Visiting Lectureship, Cardiology Grand Rounds, Vanderbilt University. Nashville, TN. October 1, 2014.
- 2014 Perspectives on the 2013 AHA/ACC Prevention Guidelines. Cardiology Grand Rounds, Rush University Medical Center. Chicago, IL. October 3, 2014.
- 2014 Estimating, Communicating, and Treating Cardiovascular Risk. Cardiology Grand Rounds, Johns Hopkins University School of Medicine. Baltimore, MD. October 8, 2014.
- 2014 ATP-III and the 2013 ACC/AHA Prevention Guidelines. Invited speaker and panelist in session on “Heart Attack Guidelines.” Prix Galien Forum. New York, NY. October 28, 2014.
- 2014 Application of 2013 ACC/AHA Cholesterol Guidelines. Invited panelist in American Heart Association Annual Scientific Sessions Prevention Case Theatre. Chicago, IL November 17, 2014.
- 2014 North American Perspective on New Guidelines for the Assessment of Cardiovascular Risk. Invited speaker in American Heart Association Annual Scientific Sessions “Joint AHA/Inter-

- American Society of Cardiology: New Guidelines: New Wine in Old Wineskins, or Old Wine in New Wineskins?" Chicago, IL November 18, 2014.
- 2014 Assessing Cardiac Risk. Invited speaker and panelist in American Heart Association Annual Scientific Sessions "Creating a Culture of Health: AHA 2020 Impact Goals." Chicago, IL November 18, 2014.
- 2014 Cholesterol Guidelines. Invited keynote speaker at Fifth Annual Symposium on Risk, Diagnosis and Treatment of Cardiovascular Disease in Women. Texas Heart Institute. Houston, TX. December 13, 2014.
- 2015 Perspectives on the 2013 AHA/ACC Prevention Guidelines. Invited keynote speaker at the Mayo Clinic Cardiovascular Update at South Beach: A Focus on Prevention. Miami Beach, FL. January 7, 2015.
- 2015 Perspectives on the 2013 AHA/ACC Prevention Guidelines. S. Gilbert Blount Memorial Guest Lecture, Department of Medicine Grand Rounds, University of Colorado. Denver, CO. February 4, 2015.
- 2015 Implementation of the 2013 Prevention Guidelines. Invited speaker at the Illinois Society of Cardiopulmonary Health and Rehabilitation Annual Education Conference. Naperville, IL March 14, 2015.
- 2015 Perspectives on the 2013 AHA/ACC Prevention Guidelines. Invited speaker at the 7th Annual Advances in Heart Disease Prevention and Rehabilitation. Beaumont Health System, Troy, MI. March 28, 2015.
- 2015 What's a Clinician to do? Implementation of the 2013 Prevention Guidelines. Invited plenary speaker at Preventive Cardiovascular Nurses' Association 21st Annual Symposium. Anaheim, CA. April 10, 2015.
- 2015 Current Status of Risk Assessment for Cardiovascular Disease. Cardiovascular Grand Rounds. Christiana Care Health System. Newark, DE. April 22, 2015.
- 2015 Ethical Implications and Use of Big Data. Invited panelist. American Physician Scientists Association. Chicago, IL. April 26, 2015.
- 2015 Perspectives on the 2013 AHA/ACC Prevention Guidelines. Cardiology Grand Rounds. University of California-San Francisco. San Francisco, CA. April 29, 2015.
- 2015 Perspectives on the 2013 AHA/ACC Prevention Guidelines. Jackson Society Visiting Professor and Bulfinch Visiting Professor, Department of Medicine Grand Rounds, Massachusetts General Hospital, Harvard Medical School, Boston, MA. May 20-21, 2015.
- 2015 ACC/AHA Cholesterol and Risk Assessment Guidelines. Invited speaker at Internal Medicine Comprehensive Review and Update, Massachusetts General Hospital and Harvard Medical School Continuing Medical Education course. Cambridge, MA. June 12, 2015.
- 2015 Current State of Hypertension Guidelines. Invited speaker at Internal Medicine Comprehensive Review and Update, Massachusetts General Hospital and Harvard Medical School Continuing Medical Education course. Cambridge, MA. June 12, 2015.
- 2015 Perspectives on the 2013 AHA/ACC Prevention Guidelines. Cardiovascular Grand Rounds. University of Michigan, Ann Arbor. Ann Arbor, MI. June 30, 2015.
- 2015 Enabling a Learning Healthcare System: The Northwestern Medicine Enterprise Data Warehouse. Invited keynote at Association of Academic Health Centers Senior Administrative/Fiscal Officers 2015 Annual Meeting. Chicago, IL. July 10, 2015.
- 2015 The Value of the Lay Press and Media in Helping You Succeed. Invited speaker at Early Career Day. American Heart Association Annual Scientific Sessions. Orlando, FL. November 7, 2015.
- 2015 ASCVD Prevention: New Avenues and Controversy. Invited speaker in "Joint AHA/CSC Session on Cardiovascular Disease Prevention." American Heart Association Annual Scientific Sessions. Orlando, FL. November 8, 2015.
- 2015 Statins in Heart Failure – Pros & Cons. Invited speaker in "Controversies in Prevention: When to Stop, Heart & Kidney Failure & Diabetes." American Heart Association Annual Scientific Sessions. Orlando, FL. November 9, 2015.

- 2015 Risk Prediction After Age 75. Invited speaker in “Statins After Age 75.” American Heart Association Annual Scientific Sessions. Orlando, FL. November 10, 2015.
- 2015 How to Manage Cholesterol for Maximal CVD Risk Reduction. Keynote Address, Conn Heart Conference, Mid-America Heart Institute, Kansas City, MO. December 11, 2015.
- 2016 What’s Next for CVD Prevention Guidelines. Cardiology Grand Rounds, University of Illinois at Chicago. Chicago, IL. January 14, 2016.
- 2016 New Cholesterol Guidelines Increase Statin Eligibility. Invited keynote speaker in session on “Cholesterol Guidelines/CV Risk Summit.” Cardiovascular Disease Prevention 14th Annual International Symposium, Baptist Health South Florida. Miami, FL. February 19, 2016.
- 2016 Is It Time to Return to Cholesterol Goals for Optimal Patient Management? Antagonist. Invited debater/panelist in session on “Cholesterol Guidelines/CV Risk Summit.” Cardiovascular Disease Prevention 14th Annual International Symposium, Baptist Health South Florida. Miami, FL. February 19, 2016.
- 2016 Forget LDL Targets: Treat with Intensity. Invited debater in session on “Prevention: Controversies in Lipids/HTN/DAPT.” American Heart Association Council on Quality Care and Outcomes Research (QCOR) Annual Scientific Sessions. Phoenix, AZ. March 1, 2016.
- 2016 Perspectives on the 2013 AHA/ACC Prevention Guidelines. Medicine Grand Rounds. University of Utah Medical Center. Salt Lake City, UT. March 31, 2016.
- 2016 What’s Next for CVD Prevention Guidelines. Cardiology Grand Rounds, University of Utah Medical Center. Salt Lake City, UT. April 1, 2016.
- 2016 PRO: ASCVD Risk Calculator: Perfectly Appropriate. Invited debater in session on “Risk Assessment: Using the Tools in Clinical Practice.” American College of Cardiology Annual Scientific Sessions. Chicago, IL. April 2, 2016.
- 2016 Perspectives on Current Lipid Guidelines. Invited speaker at Internal Medicine Comprehensive Review and Update, Massachusetts General Hospital and Harvard Medical School Continuing Medical Education course. Cambridge, MA. June 10, 2016.
- 2016 How Should We Treat BP After SPRINT and HOPE-3? Invited speaker at Internal Medicine Comprehensive Review and Update, Massachusetts General Hospital and Harvard Medical School Continuing Medical Education course. Cambridge, MA. June 10, 2016.
- 2016 Prevention of Sudden Cardiac Death in the Community: Next Steps. Invited speaker at Pathway to Improved Risk Stratification meeting. Alexandria, VA. June 15, 2016.
- 2016 Perspectives on Current Lipid Guidelines: What’s Next? Invited speaker at American Association of Physicians of Indian Origin. New York, NY. July 1, 2016.
- 2016 Using Your CTSA Effectively – Making Connections. Invited speaker at American Neurological Association 8th Annual Translational and Clinical Research Course. Chicago, IL. July 12, 2016.
- 2016 Lipids and Cardiovascular Health. Invited lecture for American Heart Association 10-Day Seminar on Epidemiology and Prevention of Cardiovascular Disease. Tahoe City, CA. July 27, 2016.
- 2016 Evaluation of Novel Biomarkers in Risk Assessment for CVD. Invited lecture for American Heart Association 10-Day Seminar on Epidemiology and Prevention of Cardiovascular Disease. Tahoe City, CA. July 27, 2016.
- 2016 Cardiovascular Health Across the Life Course. Invited speaker for Department of Medicine/Department of Pediatrics Joint Grand Rounds, University of Chicago School of Medicine. Chicago, IL. August 15, 2016.
- 2016 Cardiovascular Health Promotion: A New Paradigm for Cardiovascular Disease Prevention. Visiting Lecturer for Anand and Saroj Aggarwal South Asian Heart Health Endowed Lectureship. University of Ottawa Heart Institute, Ottawa, ON, Canada. September 12, 2016.
- 2016 Perspectives on Current Lipid Management. Invited speaker for Medicine Grand Rounds. NorthShore University Health System, North Shore Hospital, Evanston, IL. September 16, 2016.
- 2016 Cholesterol Controversy: Forget the Level and Treat the Patient. Invited speaker at Top Ten Advances in Clinical Cardiology: Patient Focused Evidence-Based Approach. Icahn School of Medicine at Mount Sinai. New York, NY. October 7, 2016.

- 2016 Discussant for “Large Scale Analysis of Lifetime Risk of Cardiovascular Disease in Europe and Population Attributable Risk of Cardiovascular Risk Factors.” Late-Breaking Science Session. American Heart Association Annual Scientific Sessions. New Orleans, LA. November 14, 2016.
- 2017 Cardiovascular Health Promotion: The New Paradigm in CVD Prevention. Invited speaker for Department of Medicine Grand Rounds. Mayo Clinic, Rochester, MN. January 25, 2017.
- 2017 Rapid Fire on Controversies in CVD Prevention. Invited speaker for Gerald T. Gau Lecture. Department of Cardiology, Mayo Clinic, Rochester, MN. January 25, 2017.
- 2017 Four Challenges in Lipid Evaluation & Management: ApoB, HDL Efflux Capacity, Familial LDL-C, & PCSK9 Inhibitors. Invited speaker at American College of Cardiology’s Cardiovascular Symposium India: Major Topics in Cardiology Today. Mumbai, India. January 28, 2017.
- 2017 Discovering Lifetime Risks for Cardiovascular Diseases – Career Journey. Duke Clinical Research Institute Fellows’ Seminar Series. Duke University, Durham, NC. May 1, 2017.
- 2017 Defining and Unraveling the Life Course of Cardiovascular Health. Invited speaker at Duke Clinical Research Institute Research Conference. Duke University, Durham, NC. May 2, 2017.
- 2017 Primordial prevention of hypertension and CVD: The next frontier. Invited Keynote Lecture at 28th Annual Vascular Biology and Hypertension Symposium. University of Alabama at Birmingham, Birmingham, AL. May 16, 2017.
- 2017 Debate: Approach to LDL Lowering -- Treat to Target or Not? Invited speaker at Toronto-Ottawa Heart Summit 2017. Toronto, Canada. June 16, 2017.
- 2017 Lifetime Risks for Cardiovascular Disease & Factors Which Modify Those Risks. Invited speaker at Toronto-Ottawa Heart Summit 2017. Toronto, Canada. June 16, 2017.
- 2017 Lipids and Cardiovascular Health. Invited lecture for American Heart Association 10-Day Seminar on Epidemiology and Prevention of Cardiovascular Disease. Tahoe City, CA. July 26, 2017.
- 2017 Evaluation of Novel Biomarkers in Risk Assessment for CVD. Invited lecture for American Heart Association 10-Day Seminar on Epidemiology and Prevention of Cardiovascular Disease. Tahoe City, CA. July 27, 2017.
- 2017 No Target Levels for Cholesterol Are Needed. Invited Speaker in session on “Cholesterol in Prevention Guidelines: Differing Views across the Oceans.” European Society of Cardiology Scientific Sessions. Barcelona, Spain. August 28, 2017.
- 2017 Moving from a 10-year to a lifetime risk perspective. Invited Speaker in session on “Towards a Unified Theory for Prevention.” European Society of Cardiology Scientific Sessions. Barcelona, Spain. August 28, 2017.
- 2017 The Breakfast Club: The Mid-Life Consequences of Cardiovascular Health in the Young. Invited speaker in “Cardiovascular Health & Brain Resiliency: The Odd Couple or BFFs?” American Heart Association Annual Scientific Sessions. Anaheim, CA. November 12, 2017.
- 2017 High-Intensity Statins for the Elderly with ACS? Invited speaker in “Treating ACS in 2017 and Beyond.” American Heart Association Annual Scientific Sessions. Anaheim, CA. November 13, 2017.
- 2017 Cardiovascular Health in the US: AHA’s Life’s Simple 7, Current Status and Trends. Invited speaker in “CVD Diseases and Risk Factors in CIS Countries.” American Heart Association Annual Scientific Sessions. Anaheim, CA. November 13, 2017.
- 2017 What “Big Data Analysis” Can Teach Us about Primary Prevention. Invited speaker in “A Fresh Look at CAD Prevention (AHA/ESC Joint Session).” American Heart Association Annual Scientific Sessions. Anaheim, CA. November 14, 2017.
- 2017 Session Highlights from Epidemiology, Big Data and Precision Medicine. Invited speaker in “Trending Topics: Epidemiology, Big Data and Precision Medicine.” American Heart Association Annual Scientific Sessions. Anaheim, CA. November 15, 2017.
- 2018 Defining Cardiovascular Disease and Cardiovascular Health. Invited lecture for American Heart Association 10-Day Seminar on Epidemiology and Prevention of Cardiovascular Disease. Tahoe City, CA. July 23, 2018.
- 2018 Lipids and Cardiovascular Health. Invited lecture for American Heart Association 10-Day Seminar on Epidemiology and Prevention of Cardiovascular Disease. Tahoe City, CA. July 25, 2018.

- 2018 Evaluation of Novel Biomarkers in Risk Assessment for CVD. Invited lecture for American Heart Association 10-Day Seminar on Epidemiology and Prevention of Cardiovascular Disease. Tahoe City, CA. July 26, 2018.
- 2018 Facilitating Health Care System Change – Perspectives from Cardiology. Invited speaker for American Cancer Society Symposium: State of the Science and Research Prioritization on Implementing Risk Stratified Survivorship Care in the United States. Washington, DC. September 18, 2018.
- 2018 Unraveling the Life Course of Cardiovascular Health. Invited Lecturer for Beaudette-Thomson Symposium. Department of Nutritional Sciences, Rutgers University School of Environmental and Biological Sciences. New Brunswick, NJ. November 2, 2018.
- 2018 Risk Assessment for Primary Prevention in the 2018 AHA/ACC Cholesterol Guidelines. Invited speaker in Main Event Session on “Prevention Beyond the Guidelines: What to Do Next.” AHA Annual Scientific Sessions. Chicago, IL. November 11, 2018.
- 2019 Primary Prevention: ASCVD Risk Assessment and Treatment. Invited speaker in session on “Just Tell me the Fa(c)ts About the New Cholesterol Guideline!.” American College of Cardiology Annual Sessions. New Orleans, LA. March 16, 2019.
- 2019 Unravelling the Life Course of Cardiovascular Health: Outcomes, Determinants, and Mechanisms. Invited speaker at Cardiology Grand Rounds, University of Pennsylvania/Penn Medicine, Philadelphia, PA. May 2, 2019.
- 2019 Unravelling the Life Course of Cardiovascular Health: Outcomes, Determinants, and Mechanisms. Invited speaker at Cardiology Grand Rounds, New York University/NYU Langone Health, New York, NY. May 10, 2019.
- 2019 Refining ASCVD Risk Assessment to Individualize Therapy in Primary Prevention. Invited Speaker in session on “So Many Guidelines: What’s a Clinician to Do?” National Lipid Association Annual Meeting. Miami, FL. May 17, 2019.
- 2019 REDUCE-IT to Practice: Is it the Dose? Invited Speaker in session on “REDUCE-IT to Practice.” National Lipid Association Annual Meeting. Miami, FL. May 18, 2019.
- 2019 Turning off the Faucet: Innovative Strategies for Cardiovascular Risk Reduction. Invited Speaker at American College of Cardiology Symposium on Cardiovascular Health Promotion. Washington, DC. May 31, 2019.
- 2019 Playing with a Full Deck: Refining Risk Assessment in Primary Prevention. Invited Speaker at American College of Cardiology Symposium on Cardiovascular Health Promotion. Washington, DC. May 31, 2019.
- 2019 New Recommendations, New Controversies: Great Debates of 2018 ACC/AHA Blood Cholesterol Guideline. Invited Speaker at American College of Cardiology Symposium on Cardiovascular Health Promotion. Washington, DC. May 31, 2019.
- 2019 Defining Cardiovascular Disease and Cardiovascular Health. Invited lecture for American Heart Association 10-Day Seminar on Epidemiology and Prevention of Cardiovascular Disease. Tahoe City, CA. July 22, 2019.
- 2019 Lipids and Cardiovascular Health. Invited lecture for American Heart Association 10-Day Seminar on Epidemiology and Prevention of Cardiovascular Disease. Tahoe City, CA. July 23, 2019.
- 2019 Risk Assessment for CVD: Present and Future. Invited lecture for American Heart Association 10-Day Seminar on Epidemiology and Prevention of Cardiovascular Disease. Tahoe City, CA. July 25, 2019.
- 2019 Evolution of risk- and benefit-based primary prevention in US guidelines. Invited lecture and panelist in session on “Moving from risk to benefit in prevention guidelines.” European Society of Cardiology Annual Sessions. Paris, France. September 1, 2019.
- 2019 Engaging the Trial Innovation Network to Enhance the Design and Implementation of a Complex, Novel Clinical Trial of Precision Medicine. Invited speaker and moderator in session on “Practical Resources and Lessons Learned in Innovating in the Science and Operation of Clinical Trials in the CTSA Program.” Clinical and Translational Science Award Consortium Fall Face-to-Face PI Meeting. Crystal City, VA. September 27, 2019.

- 2019 CVD Risk Assessment – 2019 and Beyond. State of the Art Monitoring and Treatment of Hyperlipidemia and Cardiac Risk Symposium. Rush University Medical Center. Chicago, IL. October 5, 2019.
- 2019 Defining Cardiovascular Health and the AHA 2020 Goals. Invited speaker in Sunday Morning Program on “AHA’s Strategic Goals in 2019 and Beyond.” AHA Annual Scientific Sessions. Philadelphia, PA. November 17, 2019.
- 2020 Unraveling the Life Course of Cardiovascular Health: Outcomes, Determinants, and Mechanisms. Association of University Cardiologists Annual Meeting. Tucson, AZ. January 17, 2020.
- 2020 Time Management and Life Hacks for Research and Academia. Invited speaker and panelist for AHA Lifestyle Council. American Heart Association EPI|LIFESTYLE 2020 Scientific Sessions: Epidemiology and Prevention, Lifestyle and Cardiometabolic Health. Phoenix, AZ. March 4, 2020.
- 2020 The William B. Kannel Memorial Lecture: Unraveling the Life Course of Cardiovascular Health: Determinants, Correlates, Mechanisms, and Outcomes. American Heart Association EPI|LIFESTYLE 2020 Scientific Sessions: Epidemiology and Prevention, Lifestyle and Cardiometabolic Health. Phoenix, AZ. March 6, 2020.
- 2020 Risk Estimation and Prevention in 2020 and Beyond. Cardiology Grand Rounds Speaker. University of Pennsylvania Presbyterian Hospital, Philadelphia, PA (Virtual Presentation). June 18, 2020.
- 2020 Population-Based CVD Risk Assessment Models. Invited speaker and panelist in World Heart Day Webinar sponsored by The Heart Foundation and The World Heart Federation (Live Virtual Presentation). September 29, 2020.
- 2020 Unraveling the Life Course of Cardiovascular Health: Outcomes, Determinants, and Mechanisms. Cardiology Grand Rounds Speaker. Cedars-Sinai Medical Center, Los Angeles, CA (Live Virtual Presentation). October 6, 2020.
- 2020 Life Course of Cardiovascular Health & Disease: Prevention Across the Ages. Invited plenary speaker at 4th Annual Long Island Heart Symposium (Live Virtual Presentation). November 4, 2020.
- 2020 Understanding the Life Course of Cardiovascular Health. Invited speaker at Cardiological Society of India Annual Conference 2020 (Live Virtual Presentation). December 12, 2020.
- 2020 Preventing CVD with Drugs – So Many Choices! Invited speaker at Cardiological Society of India Annual Conference 2020 (Virtual Presentation with Live Q&A). December 13, 2020.
- 2021 Identifying the “Right” Cohort: Risk Assessment Models and Integrating Factors. Invited talk in NHLBI Workshop on Early Treatment in High Lifetime Risk of CVD: What Prevention Trials are Feasible and will Change Clinical Practice? (Virtual Workshop). February 19, 2021.
- 2021 Preventive Cardiology: Cardiovascular Screening & Imaging. American College of Physicians Annual Meeting (Virtual Presentation with Live Q&A). April 30, 2021.
- 2021 Outcomes, determinants, and mechanisms of cardiovascular health across the life course. UC San Diego Department of Preventive Medicine Research Seminar (Live Virtual Presentation). May 7, 2021.
- 2021 Primer on CV Risk Calculation. Invited speaker in session on “Core Knowledge in Action: The Ultimate Guide to Lipids.” American College of Cardiology Annual Sessions (Virtual Presentation with Live Q&A). May 16, 2021.
- 2021 Risk Assessment in Primary Prevention of Atherosclerotic Cardiovascular Disease. Invited Speaker at “Innovations in Diagnosis and Treatment of Heart Disease.” Sponsored by the Preventive and Consultative (P&C) Heart Center of Excellence (COE) of Smidt Heart Institute, Cedars-Sinai Health System (Virtual Presentation with Live Q&A). July 21, 2021.
- 2021 Outcomes and determinants of cardiovascular health across the life course. Invited speaker in Ten-Day International Teaching Seminar on Cardiovascular Disease Epidemiology and Prevention (ISCEP) (Virtual Presentation). August 18, 2021.
- 2021 The Life Course of Cardiovascular Health: Outcomes, Determinants and Mechanisms from Gestation to Death. University of Wisconsin Cardiovascular Medicine Grand Rounds (Live Virtual Presentation). September 9, 2021.

- 2021 Vying for # 1 Killer of Americans – How Cancers and Heart Disease Intersect – A Cardiologist’s Perspective. Keynote Speaker at “Second Biennial Current Paradigms in Cardiovascular Care of the Cancer Patient/Survivor, 2021: What Healthcare Professionals Should Know.” Chicago, IL. October 2, 2021.
- 2021 Cardiovascular Health Across the Life Course: How Do We Live Healthier, Longer? Invited talk in “Plenary Session IV - Joint Session: American Heart Association / Israel Heart Society.” The 68th Annual Conference of the Israel Heart Society (Virtual Presentation with Live Q&A). October 5, 2021
- 2021 Promoting Cardiovascular Health Across the Lifespan: How do we live healthier longer? Invited speaker in session on “Primary Prevention.” 12th Annual Emirates Cardiac Society Conference (Virtual Presentation with Live Q&A). October 8, 2021.
- 2021 Time Course of LDL-Cholesterol Exposure and Cardiovascular Disease Event Risk. Invited speaker and panelist in session entitled “AHA @ GW-ICC: Identifying and Managing Long-term Cardiovascular Disease Risk.” Great Wall International Congress of Cardiology Meeting (Virtual Presentation with Live Q&A). October 30, 2021.
- 2021 The CARDIA Study: From Traditional to Social and Molecular Epidemiology across the Life Course. Inaugural Speaker in *Experiencing Epidemiology Seminar Series*, National Institute on Aging (Virtual Presentation). November 3, 2021.
- 2021 The Coronary Artery Risk Development in Young Adults Study. Invited speaker in Session on “Meet the Experts: Leaders of NHLBI and NINDS-Funded Cohorts.” AHA Annual Scientific Sessions (Virtual Meeting). November 14, 2021.
- 2021 Lewis A. Conner Presidential Address: Launching a Generation of Children with Ideal Cardiovascular Health. AHA Annual Scientific Sessions (Live and Virtual) Presidential Session. November 14, 2021.
- 2021 Cardiovascular Health Across the Life Course: Outcomes, Determinants, and Mechanisms. Yale University Cardiovascular Medicine Grand Rounds (Live Virtual Presentation). November 30, 2021.
- 2022 Presidential Address. American Stroke Association’s International Stroke Conference Opening Session. (Live and Hybrid). New Orleans, LA. February 9, 2022.
- 2022 Guller Family Lecture: Life Course of Cardiovascular Health -- From Intergenerational Transmission to Senescence. Washington University School of Medicine Department of Medicine Grand Rounds (Live Virtual Presentation). February 10, 2022.
- 2022 Life Course of Cardiovascular Health. US State Department Health Webinar “Take Valentine’s Day to Heart (Live Virtual Presentation). February 16, 2022.
- 2022 Do Your Part for a Healthy Heart. US State Department Health Webinar (Live Virtual Presentation). February 16, 2022.
- 2022 Presidential Address. American Heart Association EPI|LIFESTYLE 2022 Scientific Sessions: Epidemiology and Prevention, Lifestyle and Cardiometabolic Health. Chicago, IL. March 2, 2022.
- 2022 Identifying and Managing Long-Term Cardiovascular Disease Risk. Invited speaker in session on “How Do We Struggle Against Residual Risk?” 22nd Annual Meetings of the Japanese Circulation Society (Live Virtual Presentation). March 13, 2022.
- 2022 Life Course of Cardiovascular Health. Grand Rounds of the Texas Heart Institute (Live Virtual Presentation). March 18, 2022.
- 2022 Assessing Cardiovascular Risk: Where are the Data Now and Where Do We Go From Here? Honorary Fellow Keynote Presentation in Opening Session. 28th Annual Cardiovascular Nursing Symposium of the Preventive Cardiovascular Nurses’ Association. Live Presentation. Las Vegas, NV. March 24, 2022.
- 2022 Life’s Essential 8: Updating and Enhancing the American Heart Association’s Construct of Cardiovascular Health. Centers for Disease Control and Prevention Science Seminar Series (Live Virtual Presentation). August 2, 2022.
- 2022 Cardiovascular Health in South Asians: AHA Perspectives. Invited speaker in keynote session at symposium on Advancing South Asian Cardiovascular Health (Live Virtual Presentation). New Brunswick, NJ. September 17, 2022.

- 2022 E-Cigarettes and Harm Reduction: Cardiologists' View. Invited speaker in session on "WHF Special Activity: Tackling the New Frontiers of Tobacco Control Globally." World Congress of Cardiology 2022. Live presentation. Rio de Janeiro, Brazil. October 13, 2022.
- 2022 The Way Forward for Cardiovascular Health. Invited speaker in session on "WHF Special Activity: Effectiveness of Health Promotion in Promoting Cardiovascular Health." World Congress of Cardiology 2022. Live presentation. Rio de Janeiro, Brazil. October 13, 2022.
- 2022 Recalibrating Risk Prediction Tools for CVD: Can Machine Learning Help? Invited speaker in session on "Joint Symposium AHA-SBC-WHF: Prevention and Epidemiology of Cardiovascular Disease in 2022." World Congress of Cardiology 2022. Live presentation. Rio de Janeiro, Brazil. October 14, 2022.
- 2022 Healthy Aging and Cardiometabolic Risk: Overview and Perspectives. Invited keynote speaker in Special Symposium on "Cardiometabolic Health in Older Adults: Gaps, Best Practices and Perspectives. 17th Annual Cardiometabolic Health Congress. Live presentation. Boston, MA. October 19, 2022.
- 2022 Unraveling the Life Course of Cardiovascular Health: Outcomes, Mechanisms, and Determinants. Grand Rounds of the University of Maryland Division of Cardiovascular Medicine and the University of Maryland Heart Center (Virtual Presentation). November 4, 2022.
- 2022 The Paradigm of Cardiovascular Health and What We Have Learned Since 2010. Invited Speaker in Session on "Life's Essential 8: AHA's Enhanced Approach to Measuring, Monitoring and Modifying Cardiovascular Health." AHA Annual Scientific Sessions. Chicago, IL. November 5, 2022.
- 2022 Use of Big Data and Prediction Models in Estimating Cardiovascular Risk. Invited speaker in session on "Cardiac Innovations and Remote Monitoring - AHA Joint Session with the Emirates Cardiac Society." AHA Annual Scientific Sessions. Chicago, IL. November 6, 2022.
- 2022 Life's Essential 8: Fireside Chat on Life's Essential 8 with Dr. Bob Harrington and Don Lloyd-Jones. Invited speaker in session on "Life's Essential 8 and the Intelligent Health Solutions: The Digital Transformation of AHA Science using Technology Platforms." AHA Annual Scientific Sessions. Chicago, IL. November 7, 2022.
- 2022 Promoting a Healthy Lifestyle. Invited Keynote Lecture at 52nd Annual Robert D. Conn Heart Conference. St. Luke's Mid-America Heart Institute. Overland Park, KS. December 1, 2022.
- 2022 ApoB Particles & Cardiovascular Disease. Invited Keynote Lecture at Cardiological Society of India Conference 2022, Chennai, India. December 9, 2022.
- 2022 What is the Relevance of Imaging in Microvascular Disease? Invited speaker in session on "Non-Invasive Imaging – MPI & CT" at Cardiological Society of India Conference 2022, Chennai, India. December 9, 2022.
- 2022 Preventing CAD across the Life Course. Invited speaker in session on "Global Leadership Summit – Targeting the Global Menace of Increasing BMI & CVD Risk" at Cardiological Society of India Conference 2022, Chennai, India. December 10, 2022.
- 2022 When Should I Not Rely on CAC for Atherosclerosis Imaging? Invited speaker in session on "Non-Invasive Cardiac Imaging - CAD" at Cardiological Society of India Conference 2022, Chennai, India. December 10, 2022.
- 2022 Primordial & Primary Prevention. Invited speaker in session on "CSI-AHA Joint Session: Latest Tools in Preventive Cardiology" at Cardiological Society of India Conference 2022, Chennai, India. December 10, 2022.
- 2022 New Kids on the Block: PCSK9 Inhibition, Bempedoic Acid, Nutraceuticals. Invited speaker in session on "CSI-AHA Joint Session: Latest Tools in Preventive Cardiology" at Cardiological Society of India Conference 2022, Chennai, India. December 10, 2022.
- 2022 Current and Future Approaches to Cardiovascular Risk Assessment. Inaugural Caudill Endowed Lecture in Cardiovascular Medicine (Live Virtual Presentation). University of Alabama Division of Cardiovascular Medicine Grand Rounds. Birmingham, AL. December 14, 2022.
- 2022 Life's Essential 8: Cardiovascular Health and Healthy Longevity. Inaugural Caudill Endowed Lecture in Internal Medicine (Live Virtual Presentation). University of Alabama Department of Medicine Grand Rounds. Birmingham, AL. December 14, 2022.

- 2023 Life's Essential 8: Cardiovascular Health and Healthy Longevity. Stanford University Division of Cardiology Grand Rounds (Live Virtual Presentation). Palo Alto, CA. January 26, 2023.
- 2023 Updates and Enhancements to the Construct of Cardiovascular Health. Keynote speaker in International Stroke Conference Nursing Symposium session on "Life's Essential 8." Dallas, TX. February 7, 2023.
- 2023 The Fountain of Youth: Life's Essential 8 and Healthy Longevity. Pallott Lecture, University of Miami Department of Medicine Grand Rounds. Miami, FL. February 15, 2023.
- 2023 Current and Future Approaches to Cardiovascular Risk Assessment. Pallott Lecture, University of Miami Division of Cardiovascular Medicine Grand Rounds. Miami, FL. February 16, 2023.
- 2023 Life's Essential 8: A Roadmap to Individual and Population Health and Health Equity. Invited keynote speaker at University of Illinois at Chicago Medical School Scholarly Activities Day. Chicago, IL. March 9, 2023.
- 2023 Current and Future Approaches to Cardiovascular Risk Assessment. University of Chicago Cardiology Grand Rounds. Chicago, IL. March 10, 2023.
- 2023 Researching the Fountain of Youth: Life's Essential 8 and Healthy Longevity. Lillehei Heart Institute Research Lecture, University of Minnesota. Minneapolis, MN. April 5, 2023.
- 2023 Antiplatelet and Anticoagulant Strategies in Primary and Secondary Prevention of Cardiovascular Disease: A Sticky Situation. Invited 1-hour talk/Q&A in Meet the Professor Session. American College of Physicians Internal Medicine Annual Meeting, 2023. San Diego, CA. April 28, 2023.
- 2023 How Can CAC Testing Be Used to Inform the Use of Statin and Non-Statins Therapies to Reduce ASCVD Risk? Invited Speaker for California Right Care Initiative: Virtual University of Best Practices: Symposium on National Experts on Coronary Artery Calcium Clinical Pathway, plus Incidental CAC & AI (Virtual presentation). June 12, 2023.

PUBLICATIONS:

A. Original Investigations (Primary mentees underlined)

1. DiSalvo TG, Paul SD, **Lloyd-Jones DM**, Smith AJ, Villareal-Levy G, Bamezai V, Hussain SI, Eagle KA, O'Gara PT. Care of acute myocardial infarction by non-invasive and invasive cardiologists: procedure use, cost and outcome. *Journal of the American College of Cardiology*. 1996; 27:262-269.
2. Thomas MK, **Lloyd-Jones DM**, Thadhani R, Shaw AC, Deraska DJ, Kitch BT, Vamvakas EC, Dick IM, Prince RL, Finkelstein JS. Hypovitaminosis D in medical inpatients. *New England Journal of Medicine*. 1998; 338:777-783.
3. **Lloyd-Jones DM**, Camargo CA, Lapuerta P, Giugliano RP, O'Donnell CJ. Electrocardiographic and clinical predictors of acute myocardial infarction in patients presenting with unstable angina pectoris. *American Journal of Cardiology*. 1998; 81:1182-1186.
4. Giugliano RP, Camargo CA, **Lloyd-Jones DM**, Zagrodsky JD, Alexis JD, Eagle KA, Fuster V, O'Donnell CJ. Elderly patients receive less aggressive medical and invasive management of unstable angina: potential impact of practice guidelines. *Archives of Internal Medicine*. 1998; 158:1113-1120.
5. **Lloyd-Jones DM**, Martin DO, Larson MG, Levy D. Accuracy of death certificates for coding coronary heart disease as the cause of death. *Annals of Internal Medicine*. 1998; 129:1020-1026.
6. **Lloyd-Jones DM**, Larson MG, Beiser A, Levy D. Lifetime risk of developing coronary heart disease. *Lancet*. 1999; 353:89-92.
7. **Lloyd-Jones DM**, Evans JC, Larson MG, O'Donnell CJ, Levy D. Differential impact of systolic and diastolic blood pressure level on JNC-VI staging. *Hypertension*. 1999; 34:381-385.
8. **Lloyd-Jones DM**, Evans JC, Larson MG, O'Donnell CJ, Wilson PWF, Levy D. Cross-classification of JNC-VI blood pressure stages and risk groups in the Framingham Heart Study. *Archives of Internal Medicine*. 1999; 159:2206-2212.
9. **Lloyd-Jones DM**, Camargo CA, Giugliano RP, Walsh CR, O'Donnell CJ. Characteristics and prognosis of patients with suspected acute myocardial infarction and elevated MB relative index but normal total creatine kinase. *American Journal of Cardiology*. 1999; 84:957-962.

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